

ITERATION 3

Group 35



NGO PROJECT PORTFOLIO MANAGEMENT SYSTEM

This iteration outlines the updated functional requirements for **EPI-USE** and **groupelephant.com**, as well as its descriptions, the dependency matrix and the signed off project charter.

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1. Document Introduction

This document contains an updated list of our functional requirements together with their descriptions, the dependency matrix and a project charter.

2. Updated Requirements List

2.1 Introduction

This section contains a list, as well as descriptions of all functional requirements. Tables with changes that have been made to the list are also included.

2.2 Updated Functional Requirements Lists

2.2.1 User Subsystem

2.2.1.1 User Login

2.2.1.2 User Logout

2.2.1.3 Reset Password

2.2.1.4 Create User

2.2.1.5 Update User

2.2.1.6 View User

2.2.1.7 Reactivate User

2.2.1.8 Deactivate User

2.2.1.9 View FAQ

2.2.2 Admin Subsystem

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2.2.2.2 Update User Profile

2.2.2.3 View User Profile

2.2.2.4 Deactivate User Profile

2.2.2.5 Add FAQ

2.2.2.6 Update FAQ

2.2.2.7 Remove FAQ

2.2.2.8 Create Role

2.2.2.9 View Role

2.2.2.10 Update Role

2.2.2.11 Reactivate Role

2.2.2.12 Deactivate Role

2.2.2.13 Update Role Permission

2.2.2.14 View Role Permission

2.2.3 Inventory Subsystem

2.2.3.1 Receive Inventory Item

2.2.3.2 View Inventory

2.2.3.3 Write-Off Inventory

2.2.3.4 Allocate Inventory

2.2.3.5 Create Inventory Item Type

2.2.3.6 View Inventory Item Type

2.2.3.7 View Inventory Item Types

2.2.3.8 Update Inventory Item Type

2.2.3.9 Deactivate Inventory Item Type

2.2.4 Group Subsystem

2.2.4.1 Create Group

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2.2.4.3 Update Group

2.2.4.4 Deactivate Group

2.2.4.5 Create Skill

2.2.4.6 View Skills

2.2.4.7 Update Skill

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2.2.5 Warehouse Subsystem

2.2.5.1 Create Warehouse

2.2.5.2 View Warehouse

2.2.5.3 Update Warehouse

2.2.5.4 Reactivate Warehouse

2.2.5.5 Deactivate Warehouse

2.2.5.6 Inventory Stock Take

2.2.6 Vendor Subsystem

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2.2.6.2 View Vendor

2.2.6.3 View Vendors

2.2.6.4 Edit Vendor

2.2.6.5 Reactivate Vendor

2.2.6.6 Deactivate Vendor

2.2.6.7 Create Vendor Type

2.2.6.8 Update Vendor Type

2.2.6.9 View Vendor Types

2.2.6.10 Reactivate Vendor Type

2.2.6.11 Deactivate Vendor Type

2.2.7 Project Management Subsystem

2.2.7.1 Create Project

2.2.7.2 View Project

2.2.7.3 Update Project

2.2.7.4 Deactivate Project

2.2.7.5 Create Project Type

2.2.7.6 View Project Type

2.2.7.7 Update Project Type

2.2.7.8 Deactivate Project Type

2.2.7.9 Add Indemnity Form

2.2.7.10 Update Indemnity Form

2.2.7.11 View Indemnity Form

2.2.7.12 Remove Indemnity Form

2.2.7.13 Capture Indemnity Form

2.2.7.14 Capture Project Feedback

2.2.7.15 View Project Feedback

2.2.7.16 Create Impact Feedback Form

2.2.7.17 View Impact Feedback Form

2.2.7.18 Update Impact Feedback Form

2.2.7.19 Deactivate Impact Feedback Form

2.2.7.20 Capture Impact Feedback

2.2.7.21 View Impact Feedback

2.2.7.22 Add Photo

2.2.7.23 View Photo

2.2.7.24 Delete Photo

2.2.8 K9 Subsystem

2.2.8.1 Add Dog

2.2.8.2 View Dog

2.2.8.3 View Dogs

2.2.8.4 Update Dog

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2.2.14. System Subsystem

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2.2.15 Budget Subsystem

2.2.15.1 View Project Budget

2.2.15.2 View Project Budgets

2.2.15.3 Log An Expense

2.2.15.4 Update An Expense

2.2.15.5 View Expense

2.2.15.6 Remove Expense

2.3 Functional Requirements List Descriptions

2.3.1 User Subsystem

Functional Requirement	Explanation
Requirement number:	1.1
Requirement name (use case name):	User Login
Requirement short description:	A User logs into the system using their email address and password.
Requirement detailed description and constraints:	A user logs in to the system using their email address and password. The system compares the email address with the associated hashed password in the database; upon successful authentication the user is directed to the appropriate dashboard based on their role and associated permission level. Constraints: • The user should already have created an account on the system. If not, they must sign up. • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Secure Access
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 1: 1.1 User Login - Description

Functional Requirement	Explanation
Requirement number:	1.2
Requirement name (use case name):	User Logout
Requirement short description:	A user can log out of the system.
Requirement detailed description and constraints:	A user can log out of the system, thus terminating their session, ensuring that no one with physical access to their device can access the system. Once they have completed this action, they are directed to the Login page. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Secure Access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 2: 1.2 User Logout Description

Functional Requirement	Explanation
Requirement number:	1.3
Requirement name (use case name):	Reset Password
Requirement short description:	A user could reset their password if they either forgot it or suspect that their credentials might have leaked on another service.
Requirement detailed description and constraints:	A user can reset their password if they either forgot it or suspect that their credentials have leaked on another service. As the system does not save passwords in plain text, but rather a hashed format, the user will be prompted to enter their email address, to which a reset link will be sent. Once they have clicked the link, they have access to a field where they can enter a new password. The password hash is then saved in the database, replacing the previous version. Once these actions have been completed, the user will be redirected to the Login page. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature. • The password cannot be the same as the previous password, if this edge case occurs, the system will notify that the passwords are the same. • The user should already have created an account on the system. If not, they must sign up.
Business rules applicable to this requirement	• Secure Access. • Ability to recover Account.

Functional Requirement	Explanation
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 3: 1.3 Reset Password – Description

Functional Requirement	Explanation
Requirement number:	1.4
Requirement name (use case name):	Create User
Requirement short description:	A person must be able to create a user profile by signing up to the system.
Requirement detailed description and constraints:	A person must be able to create a user profile by signing up to the system. This entails providing login credentials (email address/password), basic personal information such as gender and age, location and selecting skills they possess. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature. • The new user must have a valid email address.
Business rules applicable to this requirement	• Secure Access.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 4: 1.4 Create User - Description

Functional Requirement	Explanation
Requirement number:	1.5
Requirement name (use case name):	Update User
Requirement short description:	A user must be able to edit their personal user profile.
Requirement detailed description and constraints:	A user must be able to edit their personal user profile. This could entail changing details like location or the skills they possess. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature. • The user cannot change their age, as this is automatically updated by the system.
Business rules applicable to this requirement	• Secure Access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 5: 1.5 Update User - Description

Functional Requirement	Explanation
Requirement number:	1.6
Requirement name (use case name):	View User
Requirement short description:	A user must be able to view their personal user profile.
Requirement detailed description and constraints:	A user must be able to edit their personal user profile. Administrators should have the ability to view the personal profiles of all users This could entail changing details like location or the skills they possess. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature. • Only Administrators can view the full profile details of other users.
Business rules applicable to this requirement	• Secure Access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 6: 1.6 View User - Description

Functional Requirement	Explanation
Requirement number:	1.7
Requirement name (use case name):	Reactivate User
Requirement short description:	An administrator must be able to reactivate an account.
Requirement detailed description and constraints:	An administrator should be able to reactivate any deactivated user accounts. Once an account has been reactivated, a user can login to the system using their credentials and will appear on the list of active users again. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Secure Access. • Data Retention.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 7: 1.7 Reactivate User - Description

Functional Requirement	Explanation
Requirement number:	1.8
Requirement name (use case name):	Deactivate User
Requirement short description:	A user must be able to deactivate their personal user profile.
Requirement detailed description and constraints:	A user must be able to deactivate their personal user profile. Once they have selected the option to deactivate their profile, they will be asked to confirm. If they confirm, the profile will be deactivated, and they will be directed to the login page. Data regarding their involvement in projects will be kept for accurate records on historical data, but they will no longer appear on the users list. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Secure Access. • Data Retention.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 8: 1.8 Deactivate User - Description

Functional Requirement	Explanation
Requirement number:	1.9
Requirement name (use case name):	View FAQ
Requirement short description:	A user must be able to click a help button that takes them to a context aware FAQ page.
Requirement detailed description and constraints:	A user must be able to click a help button that takes them to a context aware FAQ page. If the button is pressed on the home page, it will direct the user to the full FAQ document, but if it is pressed while using a subsystem, it will direct the user to the appropriate section as set up by the admin using the FAQ Type use cases. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Access to a help function.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 9: 1.9 View FAQ - Description

2.3.2 Admin Subsystem

Functional Requirement	Explanation
Requirement number:	2.1
Requirement name (use case name):	Create User Profile
Requirement short description:	A Super Admin must be able to create a new user profile in the system.
Requirement detailed description and constraints:	Super Admin can input necessary details to create a new user. The system validates entries before asking for confirmation. Once confirmed, the user profile is saved. Constraints: • Internet connection required. • Mandatory fields must be completed before submission.
Business rules applicable to this requirement	• Only the Super Admin can create user profiles.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 10: 2.1 Create User Profile - Description

Functional Requirement	Explanation
Requirement number:	2.2
Requirement name (use case name):	Update User Profile
Requirement short description:	A Super Admin must be able to update existing user profiles.
Requirement detailed description and constraints:	The Super Admin can modify user information. System validates changes before confirmation. Once confirmed, updates are applied. Constraints: • Internet connection required. • Cannot change another user's password without proper authorization.
Business rules applicable to this requirement	• Only the Super Admin can create user profiles.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 11: 2.2 Update User Profile - Description

Functional Requirement	Explanation
Requirement number:	2.3
Requirement name (use case name):	View User Profile
Requirement short description:	The Super Admin must be able to view user profiles.
Requirement detailed description and constraints:	The Super Admin can search and view details of existing users. No changes are allowed in this view. Constraints: Internet connection required.
Business rules applicable to this requirement	Only the Super Admin can view any profiles.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 12: 2.3 View User Profile - Description

Functional Requirement	Explanation
Requirement number:	2.4
Requirement name (use case name):	Deactivate User Profile
Requirement short description:	The Super Admin can deactivate user profiles.
Requirement detailed description and constraints:	Super Admin can disable a profile temporarily. The system confirms the action before applying it. Constraints: • Internet connection required. • Action must be logged in the system audit trail.
Business rules applicable to this requirement	• Only the Super Admin can deactivate profiles.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 13: 2.4 Deactivate User Profile - Description

Functional Requirement	Explanation
Requirement number:	2.5
Requirement name (use case name):	Add FAQ
Requirement short description:	The Super Admin can add new FAQs to the system.
Requirement detailed description and constraints:	The Super Admin input question and answer details. System validates before confirmation. Once confirmed, FAQ is added. Constraints: Internet connection required.
Business rules applicable to this requirement	Only the Super Admin can add FAQs.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 14: 2.5 Add FAQ - Description

Functional Requirement	Explanation
Requirement number:	2.6
Requirement name (use case name):	Update FAQ
Requirement short description:	The Super Admin can update existing FAQs.
Requirement detailed description and constraints:	The Super Admin can edit FAQ content, which is validated before confirmation. Once confirmed, updates are applied. Constraints: Internet connection required.
Business rules applicable to this requirement	Only the Super Admin can update FAQs.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 15: 2.6 Update FAQ - Description

Functional Requirement	Explanation
Requirement number:	2.7
Requirement name (use case name):	Remove FAQ
Requirement short description:	The Super Admin can remove FAQs from the system.
Requirement detailed description and constraints:	The Super Admin can select FAQ to delete. System asks for confirmation before removal. Constraints: Internet connection required.
Business rules applicable to this requirement	Only the Super Admin can remove FAQs from the system.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 16: 2.7 Remove FAQ - Description

Functional Requirement	Explanation
Requirement number:	2.8
Requirement name (use case name):	Create Role
Requirement short description:	The Super Admin can create new roles in the system.
Requirement detailed description and constraints:	The Super Admin enter role name and permissions. System validates input before confirmation. Once confirmed, role is created. Constraints: • Internet connection required.
Business rules applicable to this requirement	• The Super Admin can create roles.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 17: 2.8 Create Role - Description

Functional Requirement	Explanation
Requirement number:	2.9
Requirement name (use case name):	View Role
Requirement short description:	The Super Admin can view details of the existing roles.
Requirement detailed description and constraints:	The Super Admin can search and see role details. No changes allowed in view mode. Constraints: Internet connection required.
Business rules applicable to this requirement	Only the Super Admin can view roles.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 18: 2.9 View Role - Description

Functional Requirement	Explanation
Requirement number:	2.10
Requirement name (use case name):	Update Role
Requirement short description:	The Super Admin can update existing roles.
Requirement detailed description and constraints:	The Super Admin can modify role names or permissions. System validates changes before confirmation. Constraints: Internet connection required.
Business rules applicable to this requirement	The Super Admin can update roles.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 19: 2.10 Update Role - Description

Functional Requirement	Explanation
Requirement number:	2.11
Requirement name (use case name):	Reactivate Role
Requirement short description:	The Super Admin can reactivate deactivated roles.
Requirement detailed description and constraints:	The Super Admin selects a deactivated role. System confirms before reactivation. Constraints: Internet connection required.
Business rules applicable to this requirement	Only the Super Admin can reactivate a role.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 20:2.11 Reactivate Role - Description

Functional Requirement	Explanation
Requirement number:	2.12
Requirement name (use case name):	Deactivate Role
Requirement short description:	The Super Admin can deactivate roles.
Requirement detailed description and constraints:	The Super Admin selects a role. System asks for confirmation before applying deactivation. Constraints: • Internet connection required. • Action must be logged.
Business rules applicable to this requirement	• Only the Super Admin can deactivate roles.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 21: 2.12 Deactivate Role - Description

Functional Requirement	Explanation
Requirement number:	2.13
Requirement name (use case name):	Update Role Permission
Requirement short description:	The Super Admin modifies existing role permissions. System validates changes before confirmation.
Requirement detailed description and constraints:	The Super Admin modifies existing role permissions. System validates changes before confirmation. Constraints: Internet connection required.
Business rules applicable to this requirement	The Super Admin can update role permissions.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 22: 2.13 Update Role Permission - Description

Functional Requirement	Explanation
Requirement number:	2.14
Requirement name (use case name):	View Role Permission
Requirement short description:	The Super Admin can view permissions assigned to roles.
Requirement detailed description and constraints:	The Super Admin can search and view role permissions. No edits allowed. Constraints: Internet connection required.
Business rules applicable to this requirement	The Super Admin can view role permissions.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 23: 2.14 View Role Permission - Description

2.3.3 Inventory Subsystem

Functional Requirement	Explanation
Requirement number:	3.1
Requirement name (use case name):	Receive Inventory Item
Requirement short description:	A user must be able to add an item(s) to the system's inventory.
Requirement detailed description and constraints:	A user must be able to add an item(s) to the system's inventory once the item is received from a vendor. The system will allow the admin to enter details regarding the inventory received. The system will validate the details entered before asking for confirmation. Once confirmed the system will add the inventory to the system. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with the required permissions can receive inventory.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 24: 3.1 Receive Inventory Item - Description

Functional Requirement	Explanation
Requirement number:	3.2
Requirement name (use case name):	View Inventory
Requirement short description:	A user must be able to view all inventory on the system.
Requirement detailed description and constraints:	This use case describes the event in which the user views the inventory on the system. The system will retrieve and display all the inventory on the system as well as allowing the user to filter. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with the required permissions can receive inventory.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 25: 3.2 View Inventory - Description

Functional Requirement	Explanation
Requirement number:	3.3
Requirement name (use case name):	Write-Off Inventory.
Requirement short description:	A user with appropriate permissions must be able to write off an inventory item(s).
Requirement detailed description and constraints:	A user with appropriate permissions must be able to edit the details of an inventory item(s). The system will display all the inventory on the system and allow the user to write-off inventory. The system will ask for confirmation before the inventory items are written off. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with the required permissions can receive inventory.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 26: 3.3 Write-Off Inventory - Description

Functional Requirement	Explanation
Requirement number:	3.4
Requirement name (use case name):	Allocate Inventory
Requirement short description:	A user with the appropriate role must be able to allocate inventory to a project.
Requirement detailed description and constraints:	A user with the appropriate role must be able to allocate inventory to a project. The system will display all the inventory and allow the user to allocate inventory to an active project. The system will validate inputted data and ask for confirmation before allocating inventory. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with the required permissions can receive perform a stock take.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 27: 3.4 Allocate Inventory - Description

Functional Requirement	Explanation
Requirement number:	3.5
Requirement name (use case name):	Create Inventory Item Type
Requirement short description:	A user with the appropriate permissions must be able to create a new inventory item type.
Requirement detailed description and constraints:	A user with the appropriate permissions must be able to create a new inventory item type that will then be selectable when adding inventory items. Information including name, description and security level. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can create an inventory item type.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 28: 3.5 Create Inventory Item Type - Description

Functional Requirement	Explanation
Requirement number:	3.6
Requirement name (use case name):	View Inventory Item Type
Requirement short description:	A user must be able to view an inventory item type.
Requirement detailed description and constraints:	A user must be able to view an inventory item type. The system will retrieve and display all the inventory item types on the system before the user selects an inventory item type to view. Information including name, description and security level must be displayed. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can view an inventory item type.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 29: 3.6 View Inventory Item Type - Description

Functional Requirement	Explanation
Requirement number:	3.7
Requirement name (use case name):	View Inventory Item Types
Requirement short description:	A user must be able to view all inventory item types.
Requirement detailed description and constraints:	A user must be able to view all inventory item types. The system will retrieve and display all the inventory item types on the system before displaying them to the user. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can view all inventory item types.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 30:3.7 View Inventory Item Types - Description

Functional Requirement	Explanation
Requirement number:	3.8
Requirement name (use case name):	Update Inventory Item Type
Requirement short description:	A user with the appropriate permissions must be able to update an inventory item type.
Requirement detailed description and constraints:	A user with the appropriate permissions must be update inventory item type that will then be selectable when adding inventory items. Information including name, description and security level can be changed. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can update an inventory item type.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 31: 3.8 Update Inventory Item Type - Description

Functional Requirement	Explanation
Requirement number:	3.9
Requirement name (use case name):	Deactivate Inventory Item Type
Requirement short description:	A user with the appropriate permissions must be able to deactivate an inventory item type.
Requirement detailed description and constraints:	A user with the appropriate permissions must be able to deactivate an inventory item type if the type is no longer needed by the organization due to a change in policy or project scope. Data regarding previous use of the inventory item type will be kept for accurate record keeping, but the type will no longer appear when selecting an inventory item type. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can deactivate an inventory item type.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 32: 3.9 Deactivate Inventory Item Type - Description

2.3.4 Group Subsystem

Functional Requirement	Explanation
Requirement number:	4.1
Requirement name (use case name):	Create Group
Requirement short description:	The system must allow a user with appropriate permissions to create a group for a project.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to create a group that is associated with a specific project. A project can have multiple groups within it and group members can see information related to them as well as communicate with each other. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Each group must be linked with an existing project on the system. • Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 33: 4.1 Create Group – Description

Functional Requirement	Explanation
Requirement number:	4.2
Requirement name (use case name):	View Groups
Requirement short description:	The system must allow users to view the details of the group they are in for a project.
Requirement detailed description and constraints:	The system must allow users on the system to view a group's details. When a user selects to view a group, the system will display information such as the group name, the project it belongs to and the other members. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Users can only view groups they are assigned too. • Users must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 34:4.2 View Group – Description

Functional Requirement	Explanation
Requirement number:	4.3
Requirement name (use case name):	Update Group
Requirement short description:	The system must allow a user with appropriate permissions to update the details of a group.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to update a group's details within a project. The editable details will include the group name and ability to add or remove members. Once the user clicks save, the system will validate the updated data and save the changes. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 35: 4.3 Update Group – Description

Functional Requirement	Explanation
Requirement number:	4.4
Requirement name (use case name):	Deactivate Group
Requirement short description:	The system must allow a user with appropriate permissions to deactivate a group.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to deactivate a group within a project when it is no longer used or required. The system will confirm the deactivation and upon confirmation, the group will be deactivated. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 36: 4.4 Deactivate Group - Description

Functional Requirement	Explanation
Requirement number:	4.5
Requirement name (use case name):	Create Skill
Requirement short description:	The system must allow a user with appropriate permissions to create a new skill.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to create new skills that can be assigned to volunteers and staff members. These skills can be used to help assign volunteers or staff members to appropriate teams. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	Medium

Table 37: 4.5 Create Skill - Description

Functional Requirement	Explanation
Requirement number:	4.6
Requirement name (use case name):	View Skills
Requirement short description:	The system must allow users to view skills stored on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to view the skills that have been created on the system. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Users must be logged into the system. • Skills must be displayed accurately.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	Medium

Table 38: 4.6 View Skill - Description

Functional Requirement	Explanation
Requirement number:	4.7
Requirement name (use case name):	Update Skill
Requirement short description:	The system must allow a user with appropriate permissions to update skills stored on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to update the skills on the system such as correcting the name or spelling. Once the user clicks save, the system will validate the updated data and save the changes. This will ensure that skill information remains accurate. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	Medium

Table 39: 4.7 Update Skill - Description

Functional Requirement	Explanation
Requirement number:	4.8
Requirement name (use case name):	Deactivate Skill
Requirement short description:	The system must allow a user with appropriate permissions to deactivate a skill stored on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to update the skills on the system such as correcting the name or spelling. Once the user clicks save, the system will validate the updated data and save the changes. This will ensure that skill information remains accurate. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	Medium

Table 40: 4.8 Deactivate Skill - Description

2.3.5 Warehouse Subsystem

Functional Requirement	Explanation
Requirement number:	5.1
Requirement name (use case name):	Create Warehouse
Requirement short description:	The Super Admin can create new warehouses.
Requirement detailed description and constraints:	The Super Admin can input warehouse name, location, and capacity. System validates details before confirmation. Constraints: • Internet connection required. • Location field cannot be empty. • Capacity must be a positive number.
Business rules applicable to this requirement	• Only users with warehouse admin permissions can create warehouses.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 41 :5.1 Create Warehouse - Description

Functional Requirement	Explanation
Requirement number:	5.2
Requirement name (use case name):	View Warehouse
Requirement short description:	The Super Admin can view warehouse details.
Requirement detailed description and constraints:	The Super Admin can search and view warehouses. No edits allowed in view mode. Constraints: • Internet connection required. • Access limited to users with warehouse admin privileges.
Business rules applicable to this requirement	• Only warehouse admin users can view warehouses.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 42: 5.2 View Warehouse - Description

Functional Requirement	Explanation
Requirement number:	5.3
Requirement name (use case name):	Update Warehouse
Requirement short description:	The Super Admin can update warehouse details.
Requirement detailed description and constraints:	The Super Admin modifies warehouse information. System validates changes before confirmation. Constraints: • Internet connection required. • Capacity updates must be positive numbers. • Changes must be logged.
Business rules applicable to this requirement	• Only warehouse admin users can update warehouses.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 43: 5.3 Update Warehouse - Description

Functional Requirement	Explanation
Requirement number:	5.4
Requirement name (use case name):	Reactivate Warehouse
Requirement short description:	The Super Admin can reactivate deactivated warehouses.
Requirement detailed description and constraints:	The Super Admin selects a deactivated warehouse. System asks for confirmation before reactivation. Constraints: • Internet connection required. • Action must be logged.
Business rules applicable to this requirement	• Only the warehouse admin user can reactivate warehouses.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 44 5.4: Reactivate Warehouse - Description

Functional Requirement	Explanation
Requirement number:	5.5
Requirement name (use case name):	Deactivate Warehouse
Requirement short description:	The Super Admin can deactivate warehouses.
Requirement detailed description and constraints:	The Super Admin selects a warehouse. System asks for confirmation before applying deactivation. Constraints: • Internet connection required. • Action must be logged.
Business rules applicable to this requirement	• Only warehouse admin users can deactivate warehouses.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 45: 5.5 Deactivate Warehouse - Description

Functional Requirement	Explanation
Requirement number:	5.6
Requirement name (use case name):	Inventory Stock Take.
Requirement short description:	A user with appropriate permissions must be able to perform a stock take.
Requirement detailed description and constraints:	A user with appropriate permissions must be able to perform a stock take. The system will allow the user to select a warehouse and view its inventory. The user will perform a stock take and enter the stock count. The system will determine the difference and capture the difference to adjust the inventory. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with the required permissions can receive perform a stock take.
Revision date and Revision number:	2026-03-29 Version 2.0
Criticality/Priority:	High

Table 46: Inventory Stock Take - Description

2.3.6 Vendor Subsystem

Functional Requirement	Explanation
Requirement number:	6.1
Requirement name (use case name):	Create Vendor
Requirement short description:	A user must be able to add a vendor to the system.
Requirement detailed description and constraints:	A user must be able to add a vendor to the system by adding information including vendor name, type, email, phone, contact person, credit facility (if applicable), address, rating and photo. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can add a vendor.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 47: 6.1 Create Vendor - Description

Functional Requirement	Explanation
Requirement number:	6.2
Requirement name (use case name):	View Vendor
Requirement short description:	A user must be able to view any given vendor.
Requirement detailed description and constraints:	A user must be able to view any given vendor. The system will then retrieve and display all relevant information regarding the vendor. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can view a vendor.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 48 6.2: View Vendor - Description

Functional Requirement	Explanation
Requirement number:	6.3
Requirement name (use case name):	View Vendors
Requirement short description:	A user must be able to view all vendors.
Requirement detailed description and constraints:	A user must be able to view all vendors on the system. The system will retrieve and display all vendors and their information for the user. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can view all vendor.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 49: 6.3 View Vendors - Description

Functional Requirement	Explanation
Requirement number:	6.4
Requirement name (use case name):	Edit Vendor
Requirement short description:	A user must be able to edit vendor information
Requirement detailed description and constraints:	A user must be able to edit a vendor on the system by changing information including vendor name, type, email, phone, contact person, credit facility (if applicable), address, rating and photo. Constraints: • The user requires an Internet connection to access this feature. • The vendor must already exist on the system.
Business rules applicable to this requirement	• Only a user with appropriate permissions can edit a vendor.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 50: 6.4 Edit Vendor - Description

Functional Requirement	Explanation
Requirement number:	6.5
Requirement name (use case name):	Reactivate Vendor
Requirement short description:	A user must be able to reactivate a vendor.
Requirement detailed description and constraints:	A user must be able to reactivate a vendor on the system. The system will display the vendor and allow the user to reactivate the vendor. The system will ask the user to confirm the reactivation before the vendor is reactivated Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can reactivate a vendor.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 51: 6.5 Reactivate Vendor - Description

Functional Requirement	Explanation
Requirement number:	6.6
Requirement name (use case name):	Deactivate Vendor
Requirement short description:	A user must be able to deactivate any given vendor.
Requirement detailed description and constraints:	A user must be able to deactivate any given vendor in the case that the vendor is no longer in use, or the vendor no longer exists. The system will display the vendor and allow the user to deactivate the vendor. The system will ask the user to confirm the deactivation before the vendor is deactivated. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Only a user with appropriate permissions can deactivate a vendor.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 52: 6.6 Deactivate Vendor - Description

Functional Requirement	Explanation
Requirement number:	6.7
Requirement name (use case name):	Create Vendor Type
Requirement short description:	A user with the appropriate permissions must be able to create a type that vendors can be categorised under.
Requirement detailed description and constraints:	A user with the appropriate permissions must be able to create a type that vendors can be categorised under. These types will be used when updating and creating vendors. It also ensures that vendors can be easily filtered. The details will include type name, description and status. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Vendor management capabilities. • Use of Preferred vendors. • Role based access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 53: 6.7 Create Vendor Type - Description

Functional Requirement	Explanation
Requirement number:	6.8
Requirement name (use case name):	Update Vendor Type
Requirement short description:	A user with the appropriate permissions must be able to update a vendor type.
Requirement detailed description and constraints:	A user with the appropriate permissions must be able to update a vendor type. This includes changes to the type name and description. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature. • Vendor type must already exist on the system.
Business rules applicable to this requirement	• Vendor management capabilities. • Use of Preferred vendors. • Role based access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 54: 6.8 Update Vendor Type - Description

Functional Requirement	Explanation
Requirement number:	6.9
Requirement name (use case name):	View Vendor Types
Requirement short description:	A user with the appropriate permissions must be able to view the vendor types.
Requirement detailed description and constraints:	A user must be able to view the vendor types and then view all the available information regarding the vendor types. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Vendor management capabilities. • Use of Preferred vendors. • Role based access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 55: 6.8 View Vendor Types - Description

Functional Requirement	Explanation
Requirement number:	6.10
Requirement name (use case name):	Reactivate Vendor Type
Requirement short description:	A user with the appropriate permissions must be able to view the vendor types.
Requirement detailed description and constraints:	A user with the appropriate permissions must be able to reactivate a vendor type when it is required again by the organization due to a change in policy or project scope. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature. • Vendor type must already exist on the system.
Business rules applicable to this requirement	• Vendor management capabilities. • Use of Preferred vendors. • Role based access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 56: 6.10 Reactivate Vendor Type - Description

Functional Requirement	Explanation
Requirement number:	6.11
Requirement name (use case name):	Deactivate Vendor Type
Requirement short description:	A user with the appropriate permissions must be able to deactivate a vendor type.
Requirement detailed description and constraints:	A user with the appropriate permissions must be able to deactivate a vendor type if the type is no longer needed by the organization due to a change in policy or project scope. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature. • Vendor type must already exist on the system.
Business rules applicable to this requirement	• Vendor management capabilities. • Use of Preferred vendors. • Role based access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 57: 6.11 Deactivate Vendor Type - Description

2.3.7 Project Subsystem

Functional Requirement	Explanation
Requirement number:	7.1
Requirement name (use case name):	Create Project
Requirement short description:	A Super-Admin creates a new project representing an NGO goal by inputting project details and team assignments.
Requirement detailed description and constraints:	A Super-Admin will create a new project that will represent a new NGO goal. The system will open a form where the Super-Admin will input the project: name, dates, staff, teams, milestones and deadlines to help plan and organise the project. The system will capture all the information and alert all the relevant staff and create the schedule. Constraints: • The staff have all been previously added to the system. • The staff roles have all been previously added to the system. • The project type has been added to the system previously. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 58: 7.1 Create Project - Description

Functional Requirement	Explanation
Requirement number:	7.2
Requirement name (use case name):	View Project
Requirement short description:	A user clicks on a specific project to see all its details.
Requirement detailed description and constraints:	A user clicks on a specific project to see all its details, like the name, staff, dates, project type, milestones, and deadline. They see this in the project's nav bar option. The system retrieves the details and displays them in sections relative to the user's role. Constraints: • The user must already have a pre-existing account on the system. The user is logged in. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 59: 7.2 View Project - Description

Functional Requirement	Explanation
Requirement number:	7.3
Requirement name (use case name):	Update Project
Requirement short description:	A Super-Admin will edit an existing project already saved in the system.
Requirement detailed description and constraints:	A Super-Admin will edit an existing project already saved in the system. The system will open the project's form where the Super-Admin will be able to edit the project: name, dates, staff, teams, milestones and deadlines. The system will capture all the updated information and alert all the relevant staff. Constraints: • The project has already been created. • The staff have all been previously added to the system. • The staff roles have all been previously added to the system. • The project type has been added to the system previously. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	High

Table 60: 7.3 Update Project - Description

Functional Requirement	Explanation
Requirement number:	7.4
Requirement name (use case name):	Deactivate Project
Requirement short description:	A super admin can deactivate projects after they are completed or no longer support goals.
Requirement detailed description and constraints:	A super admin can deactivate projects after they are completed or if the project no longer supports the NPO's organisational goals. The system will load the form and ask the user for confirmation before deactivating the project and notifying the admin of the status change. Constraints: • The project is already created and saved on the system. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 61: 7.4 Deactivate Project - Description

Functional Requirement	Explanation
Requirement number:	7.5
Requirement name (use case name):	Create Project Type
Requirement short description:	The super admin creates a new category for projects.
Requirement detailed description and constraints:	The super admin would like to create a new category for projects that will represent a type of project. The system will display a form where the admin can type the name of the new project type, which the system then verifies and saves. Constraints: • The user must already have a pre-existing account on the system. • The user has super admin privileges. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 62: 7.5 Create Project Type - Description

Functional Requirement	Explanation
Requirement number:	7.6
Requirement name (use case name):	View Project Type
Requirement short description:	The super admin can see, edit, or deactivate project types.
Requirement detailed description and constraints:	The super admin can click "View Project types" to be able to see, edit, or deactivate project types to better categorise the projects being completed. The system retrieves recorded project types and displays them in a table for the super admin to view. Constraints: • The user must already have a pre-existing account on the system. • The user must have super admin privileges. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 63: 7.6 View Project Type - Description

Functional Requirement	Explanation
Requirement number:	7.7
Requirement name (use case name):	Update Project Type
Requirement short description:	A super admin wants to change the name of a project type.
Requirement detailed description and constraints:	A super admin wants to change the name of a project type so users can better understand what those types of projects represent. The system retrieves the recorded project type and displays the name as an editable field for the admin to update. Constraints: • The project type has already been added and captured onto the system. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 64: 7.7 Update Project Type - Description

Functional Requirement	Explanation
Requirement number:	7.8
Requirement name (use case name):	Deactivate Project Type
Requirement short description:	The super admin deactivates a project type no longer being used.
Requirement detailed description and constraints:	The super admin deactivates a project type, and it will remove it from the displayed table of project types. This would be because a project type is no longer being used. The system loads the project type name for confirmation before deactivating it. Constraints: • The project type has already been captured on the system. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 65: 7.8 Deactivate Project Type - Description

Functional Requirement	Explanation
Requirement number:	7.9
Requirement name (use case name):	Add Indemnity Form
Requirement short description:	The super admin can add a new Indemnity form to projects.
Requirement detailed description and constraints:	The super admin can add a new Indemnity form that can be added to projects to make form completions and capturing easier. The system shows fields to place a name for the form and a field to upload a pdf file or paste text. Constraints: • The admin is signed in, and the form hasn't been added yet. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 66: 7.9 Add Indemnity Form - Description

Functional Requirement	Explanation
Requirement number:	7.10
Requirement name (use case name):	Update Indemnity Form
Requirement short description:	The super admin can update an existing Indemnity form.
Requirement detailed description and constraints:	The super admin can update an existing Indemnity form that can be added to projects to make form completions and capturing easier. The system displays editable fields where the admin can change the name, text, or pdf file of the form. Constraints: • The admin is signed in, and the form hasn't been added yet. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 67: 7.10 Update Indemnity Form - Description

Functional Requirement	Explanation
Requirement number:	7.11
Requirement name (use case name):	View Indemnity Form
Requirement short description:	The super admin can see, edit, add or deactivate Indemnity Forms.
Requirement detailed description and constraints:	The super admin can click "View Indemnity Form" to be able to see, edit, add or deactivate Indemnity Forms to better help the projects. The system retrieves the recorded forms and displays them in a table for the admin to manage. Constraints: • The user must already have a pre-existing account on the system. • The user must have super admin privileges. • Must be completed before project day. • Must be user-friendly and easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 68: 7.11 View Indemnity Form - Description

Functional Requirement	Explanation
Requirement number:	7.12
Requirement name (use case name):	Remove Indemnity Form
Requirement short description:	The super admin can remove an existing indemnity form no longer being used.
Requirement detailed description and constraints:	The super admin can remove an existing indemnity form that is no longer being used to reduce clutter. The system loads the form content for deactivation confirmation and notifies the user once the form is removed from the table. Constraints: • The admin is signed in, and the form hasn't been added yet. • Must be completed before project day. • Must be user-friendly and easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 69: 7.12 Remove Indemnity Form - Description

Functional Requirement	Explanation
Requirement number:	7.13
Requirement name (use case name):	Capture Indemnity Form
Requirement short description:	A super admin can attach an indemnity form to a project.
Requirement detailed description and constraints:	A super admin can attach an indemnity form to a project which will make it so that anyone who has been added to that project must complete the compulsory indemnity form to view the project details. The system captures the selection and requires signatures from staff. Constraints: • The super admin must already have a pre-existing account on the system. • Must be completed before project day. • Must be user-friendly and easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 70: 7.13 Capture Indemnity Form - Description

Functional Requirement	Explanation
Requirement number:	7.14
Requirement name (use case name):	Capture Project Feedback
Requirement short description:	A super admin can attach a project feedback form to a project.
Requirement detailed description and constraints:	A super admin can attach a project feedback form to a project which will make it so that anyone who has been added to that project will be sent a form 1 week after the project commences asking them for a rating and comments. The system captures the selection for all involved staff. Constraints: • The project assigned to the feedback form must have commenced. • Must be completed before project day. • Must be user-friendly and easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 71: 7.14 Capture Project Feedback - Description

Functional Requirement	Explanation
Requirement number:	7.15
Requirement name (use case name):	View Project Feedback
Requirement short description:	A super admin can view project feedback form ratings and comments.
Requirement detailed description and constraints:	A super admin can view all the past projects and see the feedback forms ratings and comments for each project. The system retrieves the records for feedback and displays it neatly for the admin to read. Constraints: • The projects have been saved on the system and not been deactivated. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 72: 7.15 View Project Feedback - Description

Functional Requirement	Explanation
Requirement number:	7.16
Requirement name (use case name):	Create Impact Feedback Form
Requirement short description:	The super admin can add a new impact form for community members.
Requirement detailed description and constraints:	The super admin can add a new impact form that can be added to projects to make form completions and capturing easier for community members. The system shows fields to name the form and buttons to add and define question types. Constraints: • The admin creating the form has permissions to create impact forms already. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 73: 7.16 Create Impact Feedback Form - Description

Functional Requirement	Explanation
Requirement number:	7.17
Requirement name (use case name):	View Impact Forms
Requirement short description:	A super admin can view project impact form questions and answers.
Requirement detailed description and constraints:	A super admin can view all the past projects and see the impact forms questions and answers and see what project they are assigned to. The system retrieves records for impact data and displays it neatly for the admin. Constraints: • The projects have been saved on the system and not been deactivated. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 74: 7.17 View Impact Forms - Description

Functional Requirement	Explanation
Requirement number:	7.18
Requirement name (use case name):	Update Impact Form
Requirement short description:	The super admin can update an existing impact form.
Requirement detailed description and constraints:	The super admin can update an existing impact form that can be added to projects to make form completions and capturing easier. The system shows fields for the form name and the questions currently on the form as editable content. Constraints: • The admin is signed in, and the form hasn't been added yet. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 75: 7.18 Update Impact Form - Description

Functional Requirement	Explanation
Requirement number:	7.19
Requirement name (use case name):	Deactivate Impact Form
Requirement short description:	The admin can deactivate an impact form from the list of all forms.
Requirement detailed description and constraints:	The admin can deactivate an impact form from the list of all the forms being displayed; this can remove unused forms and clear clutter from the system. The system loads the form name for deactivation confirmation before removing it from view. Constraints: • The impact form has already been created and is displayed on the list. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 76: 7.19 Deactivate Impact Form - Description

Functional Requirement	Explanation
Requirement number:	7.20
Requirement name (use case name):	Capture Impact Form
Requirement short description:	The super admin can include an impact form and send it to a community partner.
Requirement detailed description and constraints:	When creating or editing a project the super admin can check the "Include impact form" button and choose from the list or create a new one. The system will capture an email address or phone number to send the form to the community partner. Constraints: • The impact form has already been captured in the system. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 77: 7.20 Capture Impact Form - Description

Functional Requirement	Explanation
Requirement number:	7.21
Requirement name (use case name):	View Impact Feedback
Requirement short description:	A super admin can view all of the project's impact results.
Requirement detailed description and constraints:	A super admin can view all of the project's impact results and see the impact form questions and answers, the assigned project, and which community partner answered. The system retrieves and displays these records neatly. Constraints: • The impact forms have been saved on the system and not been deactivated. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 78: 7.21 View Impact Feedback - Description

Functional Requirement	Explanation
Requirement number:	7.22
Requirement name (use case name):	Add Photo
Requirement short description:	A user can upload multiple photos to a project's album.
Requirement detailed description and constraints:	A user can click on a project to see all photos from that project, then click the add photos button to upload multiple photos to that album. The system loads a page where images can be dragged, dropped, or uploaded from the device. Constraints: • The project's photo group has already been added, and the user has access to that project. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 79: 7.22 Add Photo - Description

Functional Requirement	Explanation
Requirement number:	7.23
Requirement name (use case name):	View Photo
Requirement short description:	A user can see all photos from a specific project.
Requirement detailed description and constraints:	A user can click on a project to see all photos from that project; they can then click the project to see all photos in that album. All projects are displayed in a table with their names and a representative project photo. Constraints: • All the project's photo group has already been added, and the user has access to those projects. • Must be completed before project day. • Must be user-friendly and easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 80: 7.23 View Photo - Description

Functional Requirement	Explanation
Requirement number:	7.24
Requirement name (use case name):	Delete Photo
Requirement short description:	A user can remove photos from a project's image folder.
Requirement detailed description and constraints:	A user can click on a project to see all photos and then click the delete photos button; the system then displays an "X" button on photos they uploaded to remove them. The system captures the selection and updates the album. Constraints: • The project's photo group has already been added and the user has access to that project. • The user is deleting photo's they uploaded or are a super admin. • Must be completed before project day. • Must be easy to use.
Business rules applicable to this requirement	• Secure Access • Role Based Access
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 81: 7.24 Delete Photo - Description

2.3.8 K9 Subsystem

Functional Requirement	Explanation
Requirement number:	8.1
Requirement name (use case name):	Add Dog
Requirement short description:	The system must allow a user with appropriate permissions to add a dog to the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to capture and store the details of new dogs used in K9 operations. The details will include the dog's name, breed, age, gender, role, status, handler and parents. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • Each dog must be assigned a handler when applicable. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 82: 8.1 Add Dog - Description

Functional Requirement	Explanation
Requirement number:	8.2
Requirement name (use case name):	View Dog
Requirement short description:	The system must allow a user with appropriate permissions to view a dog on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to view the details of each dog used in K9 operations. This will help users to monitor and manage the K9 unit. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • Dog information must be stored and displayed accurately. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 83: 8.2 View Dog - Description

Functional Requirement	Explanation
Requirement number:	8.3
Requirement name (use case name):	View Dogs
Requirement short description:	The system must allow a user with appropriate permissions to view the dogs on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to view the dogs used in K9 operations. This will help users to monitor and manage the K9 unit. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 84: 8.3 View All Dogs- Description

Functional Requirement	Explanation
Requirement number:	8.4
Requirement name (use case name):	Update Dog
Requirement short description:	The system must allow a user with appropriate permissions to update a dog on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to update the details of an existing dog used in the K9 operations. The editable details will include the dog's name, breed, age, gender, role, and parents. Once the user clicks save, the system will validate the updated data and save the changes. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 85: 8.4 Update Dog - Description

Functional Requirement	Explanation
Requirement number:	8.5
Requirement name (use case name):	Deactivate Dog
Requirement short description:	The system must allow a user with appropriate permissions to deactivate a dog on the system.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to deactivate a dog on the system. This could occur when the dog becomes retired and no longer participating in anti-poaching activities. The system will confirm to deactivate the dog and upon confirmation, the dog will be deactivated. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 86: 8.5 Deactivate Dog - Description

Functional Requirement	Explanation
Requirement number:	8.6
Requirement name (use case name):	Assign User to Dog
Requirement short description:	The system must allow a user with appropriate permissions to assign a user to a dog.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to assign a registered handler to a dog on the system. This will help track who is responsible for the dog and working with the dog during patrols. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • The handler must be registered on the system. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 87: 8.6 Assign User to Dog - Description

Functional Requirement	Explanation
Requirement number:	8.7
Requirement name (use case name):	View User-Dog Assignment
Requirement short description:	The system must allow a user with appropriate permissions to view the assignment of users to dogs.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to view which handlers are assigned to which dogs on the system. This will track responsibilities, ensure accountability, and manage K9 operations effectively. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • All assignments must be stored and displayed accurately. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 88: 8.7 View User-Dog Assignment – Description

Functional Requirement	Explanation
Requirement number:	8.8
Requirement name (use case name):	Update User-Dog Assignment
Requirement short description:	The system must allow a user with appropriate permissions to update the assignment of users to dogs.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to update a dog's handler from one handler to another if needed. Once the user clicks save, the system will validate the updated data and save the changes. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • The new handler must be registered on the system. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 89: 8.8 Update User-Dog Assignment - Description

Functional Requirement	Explanation
Requirement number:	8.9
Requirement name (use case name):	Reactivate User-Dog Assignment
Requirement short description:	The system must allow a user with appropriate permissions to reactivate the assignment of users to dogs.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to reactivate a previous assignment between a handler and a dog. The system will confirm the reactivation and upon confirmation, the user-dog assignment will be reactivated. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 90: 8.9 Reactivate User-Dog Assignment - Description

Functional Requirement	Explanation
Requirement number:	8.10
Requirement name (use case name):	Deactivate User-Dog Assignment
Requirement short description:	The system must allow a user with appropriate permissions to deactivate the assignment of users to dogs.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to deactivate an existing assignment between a handler and a dog. The system will confirm the deactivation and upon confirmation, the user-dog assignment will be deactivated. This will remove the handler from being responsible for the dog. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 91: 8.10 Deactivate User-Dog Assignment - Description

Functional Requirement	Explanation
Requirement number:	8.11
Requirement name (use case name):	Add K9 Role
Requirement short description:	The system must allow a user with appropriate permissions to add a K9 role.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to add a new K9 role. These roles will define the responsibilities of each dog including tracking or attacking. These roles help to assign dogs to activities that match their abilities. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 92: 8.11 Add K9 Role - Description

Functional Requirement	Explanation
Requirement number:	8.12
Requirement name (use case name):	Update K9 Role
Requirement short description:	The system must allow a user with appropriate permissions to update a K9 role.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to update an existing K9's role on the system. The editable details will include the name or spelling of the role. Once the user clicks save, the system will validate the updated data and save the changes. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 93: 8.12 Update K9 Role - Description

Functional Requirement	Explanation
Requirement number:	8.13
Requirement name (use case name):	View K9 Roles
Requirement short description:	The system must allow a user with appropriate permissions to view K9 roles.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to view a list of K9 roles on the system. These roles describe the responsibilities of each dog such as a tracking dog or attacking dog. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • K9 roles must be displayed accurately. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 94: 8.13 View K9 Role - Description

Functional Requirement	Explanation
Requirement number:	8.14
Requirement name (use case name):	Reactivate K9 Role
Requirement short description:	The system must allow a user with appropriate permissions to reactivate a K9 role.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to reactivate a K9 role on the system when it is required again. The system will confirm the reactivation and upon confirmation, the K9 role will be reactivated. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 95: 8.14 Reactivate K9 Role - Description

Functional Requirement	Explanation
Requirement number:	8.15
Requirement name (use case name):	Deactivate K9 Role
Requirement short description:	The system must allow a user with appropriate permissions to remove a K9 role.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to deactivate an existing K9 role from the system when it is no longer required. The system will confirm the deactivation and upon confirmation, the K9 role will be deactivated. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 96: 8.15 Deactivate K9 Role – Description

Functional Requirement	Explanation
Requirement number:	8.16
Requirement name (use case name):	View K9 Ancestry
Requirement short description:	The system must allow a user with appropriate permissions to view the ancestry of a K9.
Requirement detailed description and constraints:	The system must allow a user with appropriate permissions to view a dog's family tree showing the parentage and lineage of the dog. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Role based access. • User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 97: 8.16 View K9 Ancestry - Description

2.3.9 Rhino Subsystem

Functional Requirement	Explanation
Requirement number:	9.1
Requirement name (use case name):	Add Rhino
Requirement short description:	The system allows users with appropriate permissions to add a rhino.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to store information about rhinos. The user will enter the required details including name, species, weight, date of birth, gender, horn status, status, last seen, identification notes, approximate location (kept vague for security reasons) and photo. Constraints: • Fields must pass input validation before being captured. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can add a rhino. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 98: 9.1 Add Rhino - Description

Functional Requirement	Explanation
Requirement number:	9.2
Requirement name (use case name):	View Rhino
Requirement short description:	The system allows users with appropriate permissions to view a rhino.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to access and view information about a rhino stored on the system. Constraints: • The rhino must already exist on the system. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can view a rhino's details. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 99:9.2 View Rhino - Description

Functional Requirement	Explanation
Requirement number:	9.3
Requirement name (use case name):	View Rhinos
Requirement short description:	The system allows users with appropriate permissions to view all rhinos.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to access and view all rhinos stored on the system. Constraints: • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can view all rhinos. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 100: 9.3 View Rhinos - Description

Functional Requirement	Explanation
Requirement number:	9.4
Requirement name (use case name):	Update Rhino
Requirement short description:	The system allows users with appropriate permissions to update rhino details.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to update rhino details that are stored on the system. The system will display the rhino's current details and allow the user to change them. This includes name, species, weight, date of birth, gender, horn status, status, last seen, identification notes, approximate location (kept vague for security reasons) and photo. Constraints: • The rhino must already exist on the system. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can update a rhino. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 101: 9.4 Update Rhino - Description

Functional Requirement	Explanation
Requirement number:	9.5
Requirement name (use case name):	Deactivate Rhino
Requirement short description:	The system allows users with appropriate permissions to remove a rhino; historic data will be kept.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to remove a rhino from the system. The user will get a confirmation prompt before the rhino is removed from the system. Historic rhino data will be kept. Constraints: • The rhino must already exist on the system. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can deactivate a rhino. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 102: 9.5 9.5 Deactivate Rhino - Description

2.3.10. Elephant Subsystem

Functional Requirement	Explanation
Requirement number:	10.1
Requirement name (use case name):	Add Elephant
Requirement short description:	The system allows users with appropriate permissions to add an elephant.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to store information about elephants. The user will enter the required details including name, species, weight, date of birth, gender, tusk status, status, last seen, identification notes, approximate location (kept vague for security reasons) and photo. Constraints: • Fields must pass input validation before being captured. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can add an elephant. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 103: 10.1 Add Elephant - Description

Functional Requirement	Explanation
Requirement number:	10.2
Requirement name (use case name):	View Elephant
Requirement short description:	The system allows users with appropriate permissions to view an elephant's details.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to access and view information about an elephant stored on the system. Constraints: • The elephant must already exist on the system. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can view an elephant's details. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 104: 10.2 View Elephant - Description

Functional Requirement	Explanation
Requirement number:	10.3
Requirement name (use case name):	View Elephants
Requirement short description:	The system allows users with appropriate permissions to view all elephants.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to access and view all elephants stored on the system. Constraints: • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can view all elephants. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 105: 10.3 View Elephants - Description

Functional Requirement	Explanation
Requirement number:	10.4
Requirement name (use case name):	Update Elephant
Requirement short description:	The system allows users with appropriate permissions to update an elephant's details.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to update elephant details that are stored on the system. The system will display the elephant's current details and allow the user to change them. This includes the name, species, weight, date of birth, gender, tusk status, status, last seen, identification notes, approximate location (kept vague for security reasons) and photo. Constraints: • The elephant must already exist on the system. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can update an elephant. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 106: 10.4 Update Elephant - Description

Functional Requirement	Explanation
Requirement number:	10.5
Requirement name (use case name):	Deactivate Elephant
Requirement short description:	The system allows users with appropriate permissions to deactivate an elephant; historic data will be kept.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to remove an elephant or elephant from the system. The user will get a confirmation prompt before the rhino or elephant is removed from the system. Historic data will be kept. Constraints: • Only users with appropriate permissions can remove an elephant. • The elephant must already exist on the system. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Only a user with appropriate permissions can remove an elephant. • User must be logged in.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 107: 10.5 Deactivate Elephant - Description

2.3.11 Message Subsystem

Functional Requirement	Explanation
Requirement number:	11.1
Requirement name (use case name):	Create Message
Requirement short description:	The system must allow a user to send a message on a group.
Requirement detailed description and constraints:	The system must allow a user to send a message on a group to which they are assigned. The user will type out the message they wish to send and then send the message to a group. Constraints: - Time constraint: the use case must be completed before the Project Day in October 2026. - The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 108: 11.1 Create Message – Description

Functional Requirement	Explanation
Requirement number:	11.2
Requirement name (use case name):	View Messages
Requirement short description:	The system must allow a user to view the messages on a group.
Requirement detailed description and constraints:	The system must allow a user to view a message on a group to which they are assigned. The user selects a group and will be able to see the messages on the group. Constraints: - Time constraint: the use case must be completed before the Project Day in October 2026. - The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	User must be logged into the system.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 109: 11.2 View Message - Description

2.3.12 Report Subsystem

Functional Requirement	Explanation
Requirement number:	12.1
Requirement name (use case name):	Generate Custom Report
Requirement short description:	The system allows a user with appropriate permissions to generate a custom report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to generate a custom report. The user can select fields, and the system will generate a report using those fields. Constraints: - Only users with appropriate permissions can generate custom reports. - Users must be logged in.
Business rules applicable to this requirement	Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 110: 12.1 Generate Custom Report - Description

Functional Requirement	Explanation
Requirement number:	12.2
Requirement name (use case name):	View Custom Report
Requirement short description:	The system allows a user with appropriate permissions to view a custom report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to view a custom report. The user can select and view a custom report that has been created. Constraints: • Only users with appropriate permissions can view custom reports. • Report must already exist. • Users must be logged in.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 111: 12.2 View Custom Report - Description

Functional Requirement	Explanation
Requirement number:	12.3
Requirement name (use case name):	Update Custom Report
Requirement short description:	The system allows a user with appropriate permissions to update a custom report.
Requirement detailed and constraints:	The system will allow users with appropriate permissions to update a custom report. The system will display the report's current fields and allow the user to change them. Constraints: - Only users with appropriate permissions can update custom reports. - Users must be logged in.
Business rules applicable to this requirement	Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 112: 12.3 Update Custom Report - Description

Functional Requirement	Explanation
Requirement number:	12.4
Requirement name (use case name):	Remove Custom Report
Requirement short description:	The system allows a user with appropriate permissions to remove a custom report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to remove a custom report and its configuration from the database. Constraints: • Only users with appropriate permissions can remove custom reports. • Users must be logged in.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 113: 12.4 Remove Custom Report - Description

Functional Requirement	Explanation
Requirement number:	12.5
Requirement name (use case name):	View Bike Impact Report
Requirement short description:	The system allows a user with appropriate permissions to view a bike impact report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to view a bike impact report. The user Selects a date range, and the pre-structured report is generated for them to view. Constraints: • Only users with appropriate permissions can view bike impact reports. • Users must be logged in.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 114: 12.5 View Bike Impact Report - Description

Functional Requirement	Explanation
Requirement number:	12.6
Requirement name (use case name):	View Budget Report
Requirement short description:	The system allows a user with appropriate permissions to view a budget report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to view a budget report. The user Selects a date range, and the pre-structured report is generated for them to view. Constraints: • Only users with appropriate permissions can view budget reports. • Users must be logged in.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 115: 12.6 View Budget Report – Description

Functional Requirement	Explanation
Requirement number:	12.7
Requirement name (use case name):	View Rhino Report
Requirement short description:	The system allows a user with appropriate permissions to view a rhino report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to view a rhino report. The user Selects a date range, and the pre-structured report is generated for them to view. Constraints: • Only users with appropriate permissions can view rhino reports. • Users must be logged in.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 116: 12.7 View Rhino Report - Description

Functional Requirement	Explanation
Requirement number:	12.8
Requirement name (use case name):	View Elephant Report
Requirement short description:	The system allows a user with appropriate permissions to view an elephant report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to view an elephant report. The user Selects a date range, and the pre-structured report is generated for them to view. Constraints: • Only users with appropriate permissions can view elephant reports. • Users must be logged in.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 117: 12.8 View Elephant Report - Description

Functional Requirement	Explanation
Requirement number:	12.9
Requirement name (use case name):	View K9 Report
Requirement short description:	The system allows a user with appropriate permissions to view a K9 report.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions to view a K9 report. The user Selects a date range, and the pre-structured report is generated for them to view. Constraints: - Only users with appropriate permissions can view K9 reports. - Users must be logged in.
Business rules applicable to this requirement	Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 118: 12.9 View K9 Report - Description

2.3.13 Machine Learning Subsystem

Functional Requirement	Explanation
Requirement number:	13.1
Requirement name (use case name):	View Machine Learning Dashboard
Requirement short description:	A user with the appropriate role should be able to view all current predictions.
Requirement detailed description and constraints:	A user with the appropriate role should be able to view all current predictions. Predictions will appear dynamically as users complete tasks and will also be viewable in the Machine Learning Dashboard. Once a user opens the dashboard, the model will give all predictions based on current data. This will include team predictions for ongoing projects, budget predictions for ongoing projects and risk predictions for all ongoing projects Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	• Intelligent Business Insights.
Revision date and	2026-04-09
Revision number:	Version 3.0
Criticality/Priority:	Medium

Table 119: 13.1 View Machine Learning Dashboard - Description

2.3.14 System Subsystem

Functional Requirement	Explanation
Requirement number:	14.1
Requirement name (use case name):	Backup System
Requirement short description:	The system must allow a user with appropriate permissions to back up the system.
Requirement detailed description and constraints:	The system will allow users with appropriate permissions make a backup of the system data to ensure that information can be recovered in case of a system failure or data loss. The system backup can be done manually or automatically at scheduled intervals. Constraints: Only users with appropriate permissions can perform system backups.
Business rules applicable to this requirement	- Role-based access. - Ability to backup database.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 120: 14.1 Backup System - Description

Functional Requirement	Explanation
Requirement number:	14.2
Requirement name (use case name):	Restore System
Requirement short description:	The user should be able to restore data on the system.
Requirement detailed description and constraints:	The user should be able to restore data on the system to a previously backed up version. All users will be logged out by the system before the operation takes place. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature. • Only a Super Administrator can access this feature.
Business rules applicable to this requirement	• Role-based access. • Ability to backup database.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	Medium

Table 121: 14.2 Restore System - Description

Functional Requirement	Explanation
Requirement number:	14.3
Requirement name (use case name):	View Audit Log
Requirement short description:	An administrator should be able to view the audit log
Requirement detailed description and constraints:	An administrator should be able to view the audit log to see who made which important changes when. This allows them to easily identify the source of misuse. Constraints: • Time constraint: the use case must be completed before the Project Day in October 2026. • User skill constraint: the use case must be easy to understand and use, as some users will have limited technology abilities. • The user requires an Internet connection to access this feature. • Only an Administrator can access this feature.
Business rules applicable to this requirement	• Role-based access.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	Medium

Table 122: 14.3 View Audit Log - Description

2.3.15. Budget Subsystem

Functional Requirement	Explanation
Requirement number:	15.1
Requirement name (use case name):	View Project Budget
Requirement short description:	A user with the appropriate permissions should be able to view a project budget.
Requirement detailed description and constraints:	A user with the appropriate permissions should be able to view a project budget. The system will allow the user to select and view a budget's details including expenses. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Financial data such as this is privileged, and thus only persons with appropriate roles may view it.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 123: 15.1 View Project Budget - Description

Functional Requirement	Explanation
Requirement number:	15.2
Requirement name (use case name):	View Project Budgets
Requirement short description:	A user with the appropriate permissions should be able to view all project budgets.
Requirement detailed description and constraints:	A user with the appropriate permissions should be able to view all project budgets. The system will retrieve all project budgets on the system and display them to the user. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Financial data such as this is privileged, and thus only persons with appropriate roles may view it.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 124: 15.2 View Project Budgets - Description

Functional Requirement	Explanation
Requirement number:	15.3
Requirement name (use case name):	Log An Expense
Requirement short description:	A user with appropriate permissions should be able to log an expense.
Requirement detailed description and constraints:	A user with appropriate permissions should be able to log an expense. The system will display the project's budget and allow the user to add an expense by entering the expenses details and the system will validate the inputted data before asking for confirmation Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Financial data such as this is privileged, and thus only persons with appropriate roles may view it.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 125: 15.3 Log An Expense - Description

Functional Requirement	Explanation
Requirement number:	15.4
Requirement name (use case name):	Update An Expense
Requirement short description:	A user with appropriate permissions should be able to update an expense.
Requirement detailed description and constraints:	A user with appropriate permissions should be able to update an expense in the edge case that information is entered incorrectly. The system will display the expense's details and allow the user to update its details. The user will enter the updated details and the system will validate the updated details before asking the user to confirm the updated details Constraints: • The user requires an Internet connection to access this feature. • The expense should already exist on the system.
Business rules applicable to this requirement	• Financial data such as this is privileged, and thus only persons with appropriate roles may view it.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 126: 15.4 Update An Expense - Description

Functional Requirement	Explanation
Requirement number:	15.5
Requirement name (use case name):	View An Expense
Requirement short description:	A user with appropriate permissions should be able to view an expense.
Requirement detailed description and constraints:	A user with appropriate permissions should be able to view an expense. The system will display the project budget and allow the user to select an expense to view. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Financial data such as this is privileged, and thus only persons with appropriate roles may view it.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 127: 15.5 View An Expense - Description

Functional Requirement	Explanation
Requirement number:	15.6
Requirement name (use case name):	Remove An Expense
Requirement short description:	A user with the appropriate permissions should be able to remove an expense.
Requirement detailed description and constraints:	A user with the appropriate permissions should be able to remove an expense. The system will display the projects budget and expenses and allow the user to remove an expense. The system will ask for confirmation before the expense is removed. Constraints: The user requires an Internet connection to access this feature.
Business rules applicable to this requirement	Financial data such as this is privileged, and thus only persons with appropriate roles may view it.
Revision date and Revision number:	2026-04-09 Version 3.0
Criticality/Priority:	High

Table 128: 15.6 Remove An Expense – Description

2.4 Functional Requirement List Detailed Changes Description

2.4.1 User Subsystem

User Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
1.1 User Login	1.1 User Login	-
1.2 User Logout	1.2 User Logout	-
1.3 Reset Password	1.3 Reset Password	-
1.4 Create User	1.4 Create User	-
1.5 Update User	1.5 Update User	-
1.6 View User	1.6 View User	-
1.7 Reactivate User	1.7 Reactivate User	-
1.8 Deactivate User	1.8 Deactivate User	-
1.9 View FAQ	1.9 View FAQ	-

Table 129: User Subsystem Modifications

2.4.2 Admin Subsystem

Admin Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
2.1 Create User Profile	2.1 Create User Profile	-
2.2 Update User Profile	2.2 Update User Profile	-
2.3 View User Profile	2.3 View User Profile	-
2.4 Deactivate User Profile	2.4 Deactivate User Profile	-
2.5 Add FAQ	2.5 Add FAQ	-
2.6 Update FAQ	2.6 Update FAQ	-
2.7 Remove FAQ	2.7 Remove FAQ	-
2.8 Create Role	2.8 Create Role	-
2.9 View Role	2.9 View Role	-
2.10 Update Role	2.10 Update Role	-
2.11 Reactivate Role	2.11 Reactivate Role	-
2.12 Deactivate Role	2.12 Deactivate Role	-
2.13 Update Role Permission	2.13 Update Role Permission	-
2.14 View Role Permission	2.14 View Role Permission	-

Table 130: Admin Subsystem Modifications

2.4.3 Inventory Subsystem

Inventory Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
3.1 Receive Inventory Item	3.1 Receive Inventory Item	-
3.2 View Inventory	3.2 View Inventory	-
3.3 Write Off Inventory	3.3 Write Off Inventory	-
3.4 Inventory Stock Take	[REMOVED]	Moved to warehouse subsystem as inventory stock

Inventory Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
		takes are done on a warehouse.
3.5 Allocate Inventory	3.4 Allocate Inventory	Numbering change.
3.6 Create Inventory Item Type	3.5 Create Inventory Item Type	Numbering change.
3.7 View Inventory Item Type	3.6 View Inventory Item Type	Numbering change.
3.8 View Inventory Item Types	3.7 View Inventory Item Types	Numbering change.
3.9 Update Inventory Item Type	3.8 Update Inventory Item Type	Numbering change.
3.10 Deactivate Inventory Item Type	3.9 Deactivate Inventory Item Type	Numbering change.

Table 131 Inventory Subsystem Modifications

2.4.4 Group Subsystem

Group Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
4.1 Create Group	4.1 Create Group	-
4.2 View Groups	4.2 View Groups	-
4.3 Update Group	4.3 Update Group	-
4.4 Deactivate Group	4.4 Deactivate Group	-
4.5 Create Skill	4.5 Create Skill	-
4.6 View Skills	4.6 View Skills	-
4.7 Update Skill	4.7 Update Skill	-
4.8 Deactivate Skill	4.8 Deactivate Skill	-

Table 132 Group Subsystem Modifications

2.4.5 Warehouse Subsystem

Warehouse Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
5.1 Create Warehouse	5.1 Create Warehouse	-
5.2 View Warehouse	5.2 View Warehouse	-
5.3 Update Warehouse	5.3 Update Warehouse	-
5.4 Reactivate Warehouse	5.4 Reactivate Warehouse	-
5.5 Deactivate Warehouse	5.5 Deactivate Warehouse	-
-	5.6 Inventory Stock Take	Moved from Inventory Subsystem to Warehouse Subsystem.

Table 133: Warehouse Subsystem Modifications

2.4.6 Vendor Subsystem

Vendor Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
6.1 Create Vendor	6.1 Create Vendor	-

Vendor Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
6.2 View Vendor	6.2 View Vendor	-
6.3 View Vendors	6.3 View Vendors	-
6.4 Edit Vendor	6.4 Edit Vendor	-
6.5 Reactivate Vendor	6.5 Reactivate Vendor	-
6.6 Deactivate Vendor	6.6 Deactivate Vendor	-
6.7 Create Vendor Type	6.7 Create Vendor Type	-
6.8 Update Vendor Type	6.8 Update Vendor Type	-
6.9 View Vendor Types	6.9 View Vendor Types	-
6.10 Reactivate Vendor Type	6.10 Reactivate Vendor Type	-
6.11 Deactivate Vendor Type	6.11 Deactivate Vendor Type	-

Table 134 Vendor Subsystem Modifications

2.4.7 Project Management Subsystem

Project Management Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
7.1 Create Project	7.1 Create Project	-
7.2 View Project	7.2 View Project	-
7.3 Update Project	7.3 Update Project	-
7.4 Deactivate Project	7.4 Deactivate Project	-
7.5 Create Project Type	7.5 Create Project Type	-
7.6 View Project Type	7.6 View Project Type	-
7.7 Update Project Type	7.7 Update Project Type	-
7.8 Deactivate Project Type	7.8 Deactivate Project Type	-
7.9 Add Indemnity Form	7.9 Add Indemnity Form	-
7.10 Update Indemnity Form	7.10 Update Indemnity Form	-
7.11 View Indemnity Form	7.11 View Indemnity Form	-
7.12 Remove Indemnity Form	7.12 Remove Indemnity Form	-
7.13 Capture Indemnity Form	7.13 Capture Indemnity Form	-
7.14 Capture Project Feedback	7.14 Capture Project Feedback	-
7.15 View Project Feedback	7.15 View Project Feedback	-
7.16 Create Impact Feedback Form	7.16 Create Impact Form	Clarity between impact and feedback
7.17 View Impact Feedback Form	7.17 View Impact Form	Clarity between impact and feedback
7.18 Update Impact Feedback Form	7.18 Update Impact Form	Clarity between impact and feedback
7.19 Deactivate Impact Feedback Form	7.19 Deactivate Impact Form	Clarity between impact and feedback
7.20 Capture Impact Feedback	7.20 Capture Impact Form	Clarity between impact and feedback
7.21 View Impact Feedback	7.21 View Impact Form	-

Project Management Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
7.22 Add Photo	7.22 Add Photo	-
7.23 View Photo	7.23 View Photo	-
7.24 Delete Photo	7.24 Delete Photo	-

Table 135 Vendor Subsystem Modifications

2.4.8 K9 Subsystem

K9 Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
8.1 Add Dog	8.1 Add Dog	-
8.2 View Dog	8.2 View Dog	-
8.3 View Dogs	8.3 View Dogs	-
8.4 Update Dog	8.4 Update Dog	-
8.5 Deactivate Dog	8.5 Deactivate Dog	-
8.6 Assign User to Dog	8.6 Assign User to Dog	-
8.7 View User-Dog Assignment	8.7 View User-Dog Assignment	-
8.8 Update User-Dog Assignment	8.8 Update User-Dog Assignment	-
8.9 Reactivate User-Dog Assignment	8.9 Reactivate User-Dog Assignment	-
8.10 Deactivate User-Dog Assignment	8.10 Deactivate User-Dog Assignment	-
8.11 Add K9 Role	8.11 Add K9 Role	-
8.12 Update K9 Role	8.12 Update K9 Role	-
8.13 View K9 Role	8.13 View K9 Role	-
8.14 Reactivate K9 Role	8.14 Reactivate K9 Role	-
8.15 Deactivate K9 Role	8.15 Deactivate K9 Role	-
8.16 View Ancestry	8.16 View Ancestry	-

Table 136 K9 Subsystem Modifications

2.4.9 Rhino Subsystem

Rhino Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
9.1 Add Rhino	9.1 Add Rhino	-
9.2 View Rhino	9.2 View Rhino	-
9.3 View Rhinos	9.3 View Rhinos	-
9.4 Update Rhino	9.4 Update Rhino	-
9.5 Deactivate Rhino	9.5 Deactivate Rhino	-

Table 137 Rhino Subsystem Modifications

2.4.10 Elephant Subsystem

Elephant Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
10.1 Add Elephant	10.1 Add Elephant	-
10.2 View Elephant	10.2 View Elephant	-
10.3 View Elephants	10.3 View Elephants	-
10.4 Update Elephant	10.4 Update Elephant	-
10.5 Deactivate Elephant	10.5 Deactivate Elephant	-

Table 138 Elephant Subsystem Modifications

2.4.11 Message Subsystem

Message Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
11.1 Create Message	11.1 Create Message	-
11.2 View Messages	11.2 View Messages	-

Table 139 Message Subsystem Modifications

2.4.12 Report Subsystem

Report Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
12.1 Generate Custom Report	12.1 Generate Custom Report	-
12.2 View Custom Report	12.2 View Custom Report	-
12.3 Update Custom Report	12.3 Update Custom Report	-
12.4 Remove Custom Report	12.4 Remove Custom Report	-
12.5 View Bike Impact Report	12.5 View Bike Impact Report	-
12.6 View Budget Report	12.6 View Budget Report	-
12.7 View Rhino Report	12.7 View Rhino Report	-
12.8 View Elephant Report	12.8 View Elephant Report	-
12.9 View K9 Report	12.9 View K9 Report	-

Table 140: Report Subsystem Modifications

2.4.13 Machine Learning Subsystem

Machine Learning Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
13.1 View Machine Learning Dashboard	13.1 View Machine Learning Dashboard	-

Table 141: Machine Learning Subsystem Modifications

2.4.14 System Subsystem

System Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
14.1 Backup System	14.1 Backup System	-
14.2 Restore System	14.2 Restore System	-
14.3 View Audit Log	14.3 View Audit Log	-

Table 142: System Subsystem Modifications

2.4.15 Budget Subsystem

Budget Subsystem		
<i>Use Case Name</i>	<i>Modification Change</i>	<i>Reason for Change</i>
15.1 Create Project Budget	[REMOVED]	A project budget will be created when a project is created.
15.2 View Project Budget	15.1 View Project Budget	Numbering change.
15.3 View Project Budgets	15.2 View Project Budgets	Numbering change.
15.4 Update Project Budget	[REMOVED]	A project's budget can be updated while updating a project.
15.5 Log An Expense	15.3 Log An Expense	Numbering change.
15.6 Update Expense	15.4 Update Expense	Numbering change.
15.7 View Expense	15.5 View Expense	Numbering change.
15.8 Remove Expense	15.6 Remove Expense	Numbering change.

Table 143 Budget Subsystem Modifications

2.5 Conclusion

This section of the document outlined the requirements for the proposed system. It contained an updated functional requirements list and their descriptions.

3. Dependency Matrix

3.1 Introduction

This section of the document provides the dependency matrices of the use cases for the Integrated NGO Management System for ERP (Elephants, Rhinos and People). With these matrices, each use case is evaluated and assigned a score based on six key criteria. This structured approach enables the systematic ranking of all use cases according to their overall impact, strategic alignment, urgency, resource requirements, dependencies, and potential risks.

3.2 Dependency Matrix

Ranking Criteria	
1	Significant Impact on the Architectural Design.
2	Easy to implement but contains significant functionality.
3	Includes risky, time-critical, or complex functions.
4	Involves significant research or new or risky technology.
5	Includes primary business functions.
6	Will increase revenue or decrease cost.

Table 144: Dependency Matrix Ranking Criteria

Score		
Bracket		Priority
1	11	Low
12	21	Medium
22	30	High

Table 145: Dependency Matrix Scores

3.2.1 User Subsystem Dependency Matrix

User Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
1.1 User Login	5	3	5	4	5	1	23	High	1
1.2 User Logout	4	2	2	2	5	1	16	Medium	1
1.3 Reset Password	3	4	5	4	5	1	22	High	1
1.4 Create User	5	5	2	2	5	1	20	Medium	1
1.5 Update User	3	5	2	2	3	1	16	Medium	1
1.6 View User	3	5	2	2	3	1	16	Medium	1
1.7 Reactivate User	2	3	1	1	3	1	11	Low	1
1.8 Deactivate User	2	3	1	1	3	1	11	Low	1
1.9 View FAQ	2	4	2	1	4	1	14	Medium	2

Table 146: User Subsystem Dependency Matrix

3.2.2 Admin Subsystem Dependency Matrix

Admin Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
2.1 Create User Profile	5	5	2	2	5	1	20	Medium	1
2.2 Update User Profile	3	5	2	2	3	1	16	Medium	1
2.3 View User Profile	3	5	2	2	3	1	16	Medium	1
2.4 Deactivate User Profile	2	3	1	1	3	1	11	Low	1
2.5 Add FAQ	2	4	2	1	4	1	14	Medium	2
2.6 Update FAQ	2	4	2	1	4	1	14	Medium	2
2.7 Remove FAQ	2	4	2	1	4	1	14	Medium	2
2.8 Create Role	5	4	2	2	5	1	19	Medium	1
2.9 View Role	4	4	2	2	5	1	18	Medium	1
2.10 Update Role	4	4	2	2	5	1	18	Medium	1
2.11 Reactivate Role	5	4	2	1	3	1	18	Medium	1
2.12 Deactivate Role	5	4	2	1	3	1	16	Medium	1
2.13 Update Role Permission	5	3	4	2	5	1	20	Medium	2
2.14 View Role Permission	3	4	2	1	4	1	15	Medium	2

Table 147: Admin Subsystem Dependency Matrix

3.2.3 Inventory Subsystem Dependency Matrix

Inventory Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
3.1 Receive Inventory Item	2	3	2	2	4	2	15	Medium	2
3.2 View Inventory	2	3	2	1	4	2	14	Medium	2
3.3 Write-Off Inventory	2	3	2	2	4	2	15	Medium	2
3.4 Allocate Inventory	2	3	2	2	4	2	15	Medium	2
3.5 Create Inventory Item Type	1	3	1	1	2	1	9	Low	2
3.6 View Inventory Item Type	1	3	1	1	2	1	9	Low	2
3.7 View Inventory Item Types	1	3	1	1	2	1	9	Low	2
3.8 Update Inventory Item Type	1	3	1	1	2	1	9	Low	2
3.9 Deactivate Inventory Item Type	1	3	1	1	2	1	9	Low	2

Table 148: Inventory Subsystem Dependency Matrix

3.2.4 Group Subsystem Dependency Matrix

Group Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
4.1 Create Group	4	4	3	4	5	1	21	Medium	1	
4.2 View Groups	3	3	2	2	5	1	16	Medium	1	
4.3 Update Group	3	4	3	3	5	1	19	Medium	1	
4.4 Deactivate Group	2	3	2	2	5	1	15	Medium	1	
4.5 Create Skill	2	3	2	1	4	1	13	Medium	1	
4.6 View Skills	2	2	2	1	3	1	11	Low	1	
4.7 Update Skill	2	2	2	1	3	1	11	Low	1	
4.8 Deactivate Skill	2	2	2	1	3	1	11	Low	1	

Table 149: Group Subsystem Dependency Matrix

3.2.5 Warehouse Subsystem Dependency Matrix

Warehouse Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
5.1 Create Warehouse	5	3	3	2	4	2	19	Medium	2	
5.2 View Warehouse	4	2	1	1	2	1	11	Low	2	
5.3 Update Warehouse	5	3	2	1	4	1	16	Medium	2	
5.4 Reactivate Warehouse	4	5	2	1	3	3	18	Medium	2	
5.5 Deactivate Warehouse	4	5	3	1	3	1	18	Medium	2	
5.6 Inventory Stock Take	5	4	5	3	5	4	26	High	2	

Table 150: Warehouse Subsystem Dependency Matrix

3.2.6 Vendor Subsystem Dependency Matrix

Vendor Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
6.1 Create Vendor	3	4	2	2	5	2	19	Medium	2
6.2 View Vendor	2	4	1	1	5	2	15	Medium	2
6.3 View Vendors	2	4	1	1	5	2	15	Medium	2
6.4 Edit Vendor	2	4	1	1	5	2	15	Medium	2
6.5 Reactivate Vendor	2	3	1	1	3	1	11	Low	2
6.6 Deactivate Vendor	2	3	1	1	3	1	11	Low	2
6.7 Create Vendor Type	1	3	1	1	2	1	9	Low	2
6.8 Update Vendor Type	1	3	1	1	2	1	9	Low	2
6.9 View Vendor Types	1	3	1	1	2	1	9	Low	2
6.10 Reactivate Vendor Type	1	3	1	1	2	1	9	Low	2
6.11 Deactivate Vendor Type	1	3	1	1	2	1	9	Low	2

Table 151: Vendor Subsystem Dependency Matrix

3.2.7 Project Management Subsystem Dependency Matrix

Project Management Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
7.1 Create Project	5	3	4	3	5	4	24	High	1	
7.2 View Project	4	4	3	2	5	4	22	High	1	
7.3 Update Project	3	3	4	2	4	3	19	Medium	1	
7.4 Deactivate Project	2	2	4	2	3	2	15	Medium	1	
7.5 Create Project Type	2	2	2	1	3	4	14	Medium	1	
7.6 View Project Type	2	2	1	1	3	3	12	Medium	1	
7.7 Update Project Type	1	2	2	1	3	3	12	Medium	1	
7.8 Deactivate Project Type	1	1	3	2	2	2	11	Low	1	
7.9 Add Indemnity Form	4	3	4	3	4	4	22	High	1	
7.10 Update Indemnity Form	4	3	4	3	3	4	21	Medium	1	
7.11 View Indemnity Form	4	4	3	2	4	4	21	Medium	1	
7.12 Remove Indemnity Form	3	2	4	3	3	3	18	Medium	1	
7.13 Capture Indemnity Form	4	4	4	4	5	5	26	High	1	
7.14 Capture Project Feedback	3	4	3	4	5	5	24	High	2	
7.15 View Project Feedback	4	4	3	2	4	4	21	Medium	2	
7.16 Create Impact Feedback Form	3	4	4	3	4	3	21	Medium	2	
7.17 View Impact Feedback Form	5	3	2	2	4	3	19	Medium	2	
7.18 Update Impact Feedback Form	4	4	3	3	3	2	19	Medium	2	
7.19 Deactivate Impact Feedback Form	2	2	4	3	2	2	15	Medium	2	
7.20 Capture Impact Feedback	4	3	4	3	4	4	22	High	2	
7.21 View Impact Feedback	4	4	3	2	4	3	20	Medium	2	
7.22 Add Photo	2	3	2	2	1	1	11	Low	2	

Project Management Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
7.23 View Photo	3	4	2	1	1	1	12	Medium	2
7.24 Delete Photo	2	2	3	2	1	1	11	Low	2

Table 152: Project Management Subsystem Dependency Matrix

3.2.8 K9 Subsystem Dependency Matrix

K9 Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
8.1 Add Dog	3	4	2	2	5	1	17	Medium	2
8.2 View Dog	2	3	2	2	5	1	15	Medium	2
8.3 View Dogs	2	3	2	2	5	1	15	Medium	2
8.4 Update Dog	3	4	2	2	5	1	17	Medium	2
8.5 Deactivate Dog	2	3	2	2	4	1	14	Medium	2
8.6 Assign User to Dog	3	4	2	2	5	1	17	Medium	2
8.7 View User-Dog Assignment	2	3	2	2	5	1	15	Medium	2
8.8 Update User-Dog Assignment	3	4	2	2	5	1	17	Medium	2
8.9 Reactivate User-Dog Assignment	2	3	2	2	5	1	15	Medium	2
8.10 Deactivate User-Dog Assignment	2	3	2	2	5	1	15	Medium	2
8.11 Add K9 Role	2	2	2	2	4	1	13	Medium	2
8.12 Update K9 Role	2	2	2	1	3	1	11	Low	2
8.13 View K9 Roles	2	2	2	1	3	1	11	Low	2
8.14 Reactivate K9 Role	2	2	2	1	3	1	11	Low	2
8.15 Deactivate K9 Role	2	2	2	1	3	1	11	Low	2
8.16 View K9 Ancestry	3	4	3	3	4	1	18	Medium	2

Table 153: K9 Subsystem Dependency Matrix

3.2.9 Rhino Subsystem Dependency Matrix

Rhino Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
9.1 Add Rhino	3	4	2	2	5	1	17	Medium	2
9.2 View Rhino	2	4	1	1	5	1	14	Medium	2
9.3 View Rhinos	2	4	1	1	5	1	14	Medium	2
9.4 Update Rhino	3	4	2	2	5	1	17	Medium	2
9.5 Deactivate Rhino	2	3	1	1	5	1	13	Medium	2

Table 154: Rhino Subsystem Dependency Matrix

3.2.10 Elephant Subsystem Dependency Matrix

Elephant Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
10.1 Add Elephant	3	4	2	2	5	1	17	Medium	2
10.2 View Elephant	2	4	1	1	5	1	14	Medium	2
10.3 View Elephants	2	4	1	1	5	1	14	Medium	2
10.4 Update Elephant	3	4	2	2	5	1	17	Medium	2
10.5 Deactivate Elephant	2	3	1	1	5	1	13	Medium	2

Table 155: Elephant Subsystem Dependency Matrix

3.2.11 Message Subsystem Dependency Matrix

Message Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
11.1 Create Message	3	3	4	4	5	1	20	Medium	1	
11.2 View Message	2	3	4	4	5	1	19	Medium	1	

Table 156: Elephant Subsystem Dependency Matrix

3.2.12 Report Subsystem Dependency Matrix

Report Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
12.1 Generate Custom Report	3	3	2	2	5	1	16	Medium	2	
12.2 View Custom Report	1	4	2	2	5	1	15	Medium	2	
12.3 Update Custom Report	3	3	2	2	5	1	16	Medium	2	
12.4 Remove Custom Report	1	4	2	2	2	1	12	Medium	2	
12.5 View Bike Impact Report	2	3	2	2	5	1	15	Medium	3	
12.6 View Budget Report	2	3	2	2	5	1	15	Medium	3	
12.7 View Rhino Report	2	3	2	2	5	1	15	Medium	3	
12.8 View Elephant Report	2	3	2	2	5	1	15	Medium	3	
12.9 View K9 Report	2	3	2	2	5	1	15	Medium	3	

Table 157: Report Subsystem Dependency Matrix

3.2.13 Machine Learning Subsystem Dependency Matrix

Machine Learning Subsystem									
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle
	1	2	3	4	5	6			
13.1 View Machine Learning Dashboard	3	2	4	5	4	1	19	Medium	3

Table 158: Machine Learning Subsystem Dependency Matrix

3.2.14 System Subsystem Dependency Matrix

System Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
14.1 Backup System	2	2	4	4	4	1	17	Medium	3	
14.2 Restore System	2	2	4	4	4	1	17	Medium	3	
14.3 View Audit Log	3	3	3	3	4	1	17	Medium	3	

Table 159: System Subsystem Dependency Matrix

3.2.15 Budget Subsystem Dependency Matrix

Budget Subsystem										
Use Case	Ranking Criteria						Total Score	Priority	Build Cycle	
	1	2	3	4	5	6				
15.1 View Project Budget	2	4	2	1	5	3	17	Medium	2	
15.2 View Project Budgets	2	4	2	1	5	3	17	Medium	2	
15.3 Log An Expense	3	4	3	1	5	4	20	Medium	2	
15.4 Update An Expense	3	4	3	1	5	4	20	Medium	2	
15.5 View Expense	2	4	2	1	5	3	17	Medium	2	
15.6 Remove Expense	2	3	2	1	5	3	16	Medium	2	

Table 160: Budget Subsystem Dependency Matrix

3.3 Rationale for Using Dependency Matrices Over Dependency Diagrams

While dependency diagrams provide an intuitive visual representation of relationships, a dependency matrix was selected as the primary tool for evaluating and prioritizing use cases in the Integrated NGO Management System for ERP (Elephants, Rhinos and People).

A dependency matrix offers several distinct advantages in this context. It presents urgency in a compact, tabular format that readily accommodates quantitative scoring across multiple criteria. This structure enables systematic calculation of overall impact scores, facilitates easy sorting and ranking of use cases, and supports clear identification of critical dependencies, potential bottlenecks, and implementation sequencing. Matrices are particularly effective when dealing with a comprehensive set of use cases, as they avoid the visual clutter and scalability issues often encountered in graphical diagrams when the number of elements increases.

In contrast, dependency diagrams excel at illustrating high-level flows and directional relationships but become difficult to interpret and maintain as complexity grows. They are less suited for embedding detailed scoring data or performing rapid comparative analysis across six evaluation criteria. By adopting the matrix approach, the prioritization process remains transparent, objective, and easily auditable, ensuring that resource allocation and phased implementation decisions are grounded in a consistent, analytical framework tailored to the strategic needs of the NGO.

3.4 Conclusion

This section of the document outlined the dependency matrix of the use case for EPI-USE and groupelephant.com.

4. Project Planning

4.1 Introduction

This section of the document provides the planning for Iteration 4, 5 and 6 with a detailed description about the development of the EPI-USE and groupelephant.com system.

4.2 Iteration 4 Planning:

For the fourth iteration of our system, we are expected to complete the programming and documentation of at least 30% of the use cases identified for the system. As the system consists of 128 distinct use cases, at least 39 will need to be completed

$$128 \times 30\% \approx 39$$

Based on the outcomes of the dependency matrices, the following 40 use cases have been identified for completion:

4.2.1 User Subsystem (Subsystem 1)

- 1.1 User Login
- 1.2 User Logout
- 1.3 Reset Password
- 1.4 Create User
- 1.5 Update User
- 1.6 View User
- 1.7 Reactivate User
- 1.8 Deactivate User

4.2.2 Admin Subsystem (Subsystem 2)

- 2.1 Create User Profile
- 2.2 Update User Profile
- 2.3 View User Profile
- 2.4 Deactivate User Profile
- 2.8 Create Role
- 2.9 View Role
- 2.10 Update Role
- 2.11 Reactivate Role
- 2.12 Deactivate Role

4.2.3 Group Subsystem (Subsystem 4)

- 4.1 Create Group
- 4.2 View Groups
- 4.3 Update Group
- 4.4 Deactivate Group
- 4.5 Create Skill
- 4.6 View Skills
- 4.7 Update Skill
- 4.8 Deactivate Skill

4.2.4 Project Subsystem (Subsystem 7)

- 7.1 Create Project
- 7.2 View Project
- 7.3 Update Project
- 7.4 Deactivate Project
- 7.5 Create Project Type
- 7.6 View Project Type
- 7.7 Update Project Type
- 7.8 Deactivate Project Type
- 7.9 Add Indemnity Form
- 7.10 Update Indemnity Form
- 7.11 View Indemnity Form
- 7.12 Remove Indemnity Form
- 7.13 Capture Indemnity Form

4.2.5 Message Subsystem (Subsystem 11)

- 11.1 Create Message
- 11.2 View Messages

We plan to distribute the work as shown on the kanban board that can be found [here](#).

Alexander	Amahle	Christopher	Nicholas	Stephan
7.1 Create Project	7.9 Add Indemnity Form	1.4 Create User	4.1 Create Group	1.1 User Login
7.2 View Project	7.10 Update Indemnity Form	1.5 Update User	4.2 View Group	1.2 User Logout
7.3 Update Project	7.11 View Indemnity Form	1.6 View User	4.3 Update Group	1.3 Reset Password
7.4 Deactivate Project	7.12 Remove Indemnity Form	1.7 Reactivate User	4.4 Deactivate Group	2.8 Create Role
7.5 Create Project Type	7.13 Capture Indemnity Form	1.8 Deactivate User	4.5 Create Skill	2.9 View Role
7.6 View Project Type		11.1 Create Message	4.6 View Skill	2.10 Update Role
7.7 Update Project Type		11.2 View Message	4.7 Update Skill	2.11 Reactivate Role
7.8 Deactivate Project Type		2.1 Create User Profile	4.8 Deactivate Skill	2.12 Deactivate Roll
		2.2 Update User Profile	2.3 View User Profile	
			2.4 Deactivate User Profile	

Table 161: Iteration 4 Division of Work

4.3 Iteration 5 Planning:

For the fifth iteration of our system, we are expected to complete the programming and documentation of at least ~65% of the use cases identified for the system. As the system consists of 128 distinct use cases, at least 83 use cases not yet developed in Iteration 4 will need to be completed.

$$128 \times 65\% \approx 83$$

Based on the outcomes of the dependency matrices, the following 79 use cases have been identified for completion:

4.3.1 User Subsystem (Subsystem 1)

1.9 View FAQ

4.3.2 Admin Subsystem (Subsystem 2)

2.5 Add FAQ

2.6 Update FAQ

2.7 Remove FAQ

2.13 Update Role Permission

2.14 View Role Permission

4.3.3 Inventory Subsystem (Subsystem 3)

3.1 Receive Inventory Item

3.2 View Inventory

3.3 Write-Off Inventory

3.4 Allocate Inventory

3.5 Create Inventory Item Type

3.6 View Inventory Item Type

3.7 View Inventory Item Types

3.8 Update Inventory Item Type

3.9 Deactivate Inventory Item Type

4.3.4 Warehouse Subsystem (Subsystem 5)

5.1 Create Warehouse

5.2 View Warehouse

5.3 Update Warehouse

5.4 Reactivate Warehouse

5.5 Deactivate Warehouse

5.6 Inventory Stock Take

4.3.5 Vendor Subsystem (Subsystem 6)

6.1 Create Vendor

6.2 View Vendor

6.3 View Vendors

6.4 Edit Vendor

6.5 Reactivate Vendor

6.6 Deactivate Vendor

6.7 Create Vendor Type

6.8 Update Vendor Type

6.9 View Vendor Types

6.10 Reactivate Vendor Type

6.11 Deactivate Vendor Type

4.3.6 Project Subsystem (Subsystem 7)

7.14 Capture Project Feedback

7.15 View Project Feedback

7.16 Create Impact Feedback Form

7.17 View Impact Feedback Form

7.18 Update Impact Feedback Form

7.19 Deactivate Impact Feedback Form

7.20 Capture Impact Feedback

7.21 View Impact Feedback

7.22 Add Photo

7.23 View Photo

7.24 Delete Photo

4.3.7 K9 Subsystem (Subsystem 8)

- 8.1 Add Dog
- 8.2 View Dog
- 8.3 View Dogs
- 8.4 Update Dog
- 8.5 Deactivate Dog
- 8.6 Assign User to Dog
- 8.7 View User-Dog Assignment
- 8.8 Update User-Dog Assignment
- 8.9 Reactivate User-Dog Assignment
- 8.10 Deactivate User-Dog Assignment
- 8.11 Add K9 Role
- 8.12 Update K9 Role
- 8.13 View K9 Roles
- 8.14 Reactivate K9 Role
- 8.15 Deactivate K9 Role
- 8.16 View K9 Ancestry

4.3.8 Rhino Subsystem (Subsystem 9)

- 2.2.9.1 Add Rhino
- 2.2.9.2 View Rhino
- 2.2.9.3 View Rhinos
- 2.2.9.4 Update Rhino
- 2.2.9.5 Deactivate Rhino

4.3.9 Elephant Subsystem (Subsystem 10)

10.1 Add Elephant

10.2 View Elephant

10.3 View Elephants

10.4 Update Elephant

10.5 Deactivate Elephant

4.3.10 Report Subsystem (Subsystem 12)

12.1 Generate Custom Report

12.2 View Custom Report

12.3 Update Custom Report

12.4 Remove Custom Report

4.3.11 Budget Subsystem (Subsystem 15)

15.1 View Project Budget

15.2 View Project Budgets

15.3 Log An Expense

15.4 Update An Expense

15.5 View Expense

15.6 Remove Expense

We plan to distribute the work as shown on the kanban board that can be found [here](#).

Alexander	Amahle	Christopher	Nicholas	Stephan
7.14 Capture Project Feedback	2.5 Add FAQ	3.1 Receive Inventory Item	8.1 Add Dog	1.9 View FAQ
7.15 View Project Feedback	2.6 Update FAQ	3.2 View Inventory	8.2 View Dog	12.1 Generate Custom Report
7.16 Create Impact Feedback Form	2.7 Remove FAQ	3.3 Write-Off Inventory	8.3 View Dogs	12.2 View Custom Report

Alexander	Amahle	Christopher	Nicholas	Stephan
7.17 View Impact Feedback Form	2.13 Update Role Permission	3.4 Allocate Inventory	8.4 Update Dog	12.3 Update Custom Report
7.18 Update Impact Feedback Form	2.14 View Role Permission	3.5 Create Inventory Item Type	8.5 Deactivate Dog	12.4 Remove Custom Report
7.19 Deactivate Impact Feedback Form	6.1 Create Vendor	3.6 View Inventory Item Type	8.6 Assign User to Dog	5.1 Create Warehouse
7.20 Capture Impact Feedback	6.2 View Vendor	3.7 View Inventory Item Types	8.7 View User-Dog Assignment	5.2 View Warehouse
7.21 View Impact Feedback	6.3 View Vendors	3.8 Update Inventory Item Type	8.8 Update User-Dog Assignment	5.3 Update Warehouse
7.22 Add Photo	6.4 Edit Vendor	3.9 Deactivate Inventory Item Type	8.9 Reactivate User-Dog Assignment	5.4 Reactivate Warehouse
7.23 View Photo	6.5 Reactivate Vendor	9.1 Add Rhino	8.10 Deactivate User-Dog Assignment	5.5 Deactivate Warehouse
7.24 Delete Photo	6.6 Deactivate Vendor	9.2 View Rhino	8.11 Add K9 Role	5.6 Inventory Stock Take
15.1 View Project Budget	6.7 Create Vendor Type	9.3 View Rhinos	8.12 Update K9 Role	10.1 Add Elephant
15.2 View Project Budgets	6.8 Update Vendor Type	9.4 Update Rhino	8.13 View K9 Roles	10.2 View Elephant
15.3 Log An Expense	6.9 View Vendor Types	9.5 Deactivate Rhino	8.14 Reactivate K9 Role	10.3 View Elephants
15.4 Update An Expense	6.10 Reactivate Vendor Type		8.15 Deactivate K9 Role	10.4 Update Elephant
15.5 View Expense	6.11 Deactivate Vendor Type		8.16 View K9 Ancestry	10.5 Deactivate Elephant
15.6 Remove Expense				

Table 162: Iteration 5 distribution of work

4.4 Iteration 6 Planning:

For the sixth iteration of our system, we are expected to complete the programming and documentation of around 10% of the use cases identified for the system, or in other words the remaining use cases after iterations 4 & 6. As the system consists of 128 distinct use cases, around 13 uses should remain to be completed in this iteration.

$$128 \times 10\% \approx 13$$

Based on the outcomes of the dependency matrices, the following 9 use cases have been identified for completion:

4.2.1 Report Subsystem (Subsystem 12)

12.5 View Bike Impact Report

12.6 View Budget Report

12.7 View Rhino Report

12.8 View Elephant Report

12.9 View K9 Report

4.4.2 Machine Learning Subsystem (Subsystem 13)

13.1 View Machine Learning Dashboard

4.4.3 System Subsystem (Subsystem 14)

14.1 Backup System

14.2 Restore System

14.3 View Audit Log

We plan to distribute the work as shown on the kanban board that can be found [here](#).

Alexander	Amahle	Christopher	Nicholas	Stephan
12.5 View Bike Impact Report	12.7 View Rhino Report	12.9 View K9 Report	14.2 Restore System	13.1 View Machine Learning Dashboard
12.6 View Budget Report	12.8 View Elephant Report		14.3 View Audit Log	14.1 Backup System

Table 163: Iteration 6 distribution of work

4.5 Conclusion

A high-level strategy for Iterations 4, 5, and 6 are included at the end of this section, detailing the strategic actions and goals we hope to accomplish in the following stages.

5. Complexity Matrix

Description Of Functionality	Score	Iteration 4
For online applications: Responsive web design (using HTML and CSS to automatically resize, hide, shrink, or enlarge, a website, to make it look good on all devices.)	3	3
Appropriate use of tabs/links	3	3
Appropriate use of grids/tables	3	3
Use and update at least two graphs in an appropriate business context. For example, a dashboard indicating the status of goods sold, services rendered, staff allocation to work etc. These graphs are NOT the graphs for a report and do not have to be printed in a PDF as per section 3.	4	
The storage and display of graphical information, like photos, is for a good business reason. For example, a profile picture or a product image.	3	3
Working e-mail automatically generated from the database in an appropriate business context	2	
At least one use of a tree to display data from the database. This needs to be set up in the database. For example: Province, City, Suburb OR Product category, product type, and product.	3	
Able to dynamically modify a data tree structure and in doing so adjusting the data in the database. As per line 19, however, from the front end you need to be able to modify it by adding/updating/deleting the records.	4	
At least one use of a calendar view of data (not a date/time picker; not a plug-in such as Google calendar)	3	3
Uploading a file into the system for appropriate business reasons. Can be PDF or an additional image.	3	3
The use of audio/video in an appropriate business context. This can be a YouTube video or a help video.	3	
At least one use of an administrator in a configurable timer in an appropriate business context. For example, OTP session timer or logout session timer - these timers need to be adjustable from the front end.	3	3
At least 30 tables used (4 member groups), or 40 tables used (5 member groups)	6	
Full referential integrity on all table relationships	6	
At least 3 simple list reports in a reporting tool (no control breaks, no graphs, single table) displayed on screen and generated as PDF with logo, date generated, person generated. Reports should be useful to allow organisation to make decisions.	3	
At least 2 transactional reports with 2 or more control breaks (with heading and calculated values/totals, multiple tables) displayed on screen and generated as PDF with logo, date generated, person generated. Reports should be useful to allow organisation to make decisions. (have sub totals and full totals)	6	
At least 1 report with adjustable criteria displayed on screen and generated as PDF with logo, date generated, person generated. Reports should be useful to allow organisation to make decisions.	3	
At least 1 management report using a graph displayed on screen and generated as PDF with logo, date generated, person generated. Reports should be useful to allow organisation to make decisions.	3	

Description Of Functionality	Score	Iteration 4
All data that can change in future should not be hard coded but maintained in a sub-module of the system (e.g. Lookup tables)	6	6
Some business rules are not hard coded but maintained in a sub-module of the system and should work when implemented in the system. For example, discount, VAT, response time etc. These need to be in a table that can be updated. It should be applied in the code.	6	
All system-generated errors are trapped, and consistent, user-friendly error messages are displayed	6	
Appropriate data validation on all input fields. This includes dates (example: cannot be born in the future), numbers (no negative quantities or prices).	6	6
At least one menu item or other control that opens a complete help document (HTML, PDF, Help-file)	3	
Extensive context-sensitive help. E.g. calling Help on a specific screen/function will automatically open the specific help for that screen/function.	6	
Search facility on Help	3	
Extensive use of hints for example place holders or tool tips.	3	
Logon screen with user ID and password and fixed user profiles	3	3
Applying two factor authentication with applicable business reasons via an OTP not via a link.	3	
Encrypted passwords in database	1	1
Flexible user profiles (i.e. you can dynamically add user profiles that will enable/disable access to certain parts of the system). For example, you can add a new role with new permissions for the role, or you can adjust permissions for an existing role. It does not refer to profiles for example a client vs and employee role.	6	6
An audit trail of all transactions in the system showing at least date, time, user, transaction type, critical data (such as amount and quantity of transaction). Who did what when on the system. Link the table to the user's table to capture ALL transactions.	6	
Able to search the audit trail on any of the following: date, user, transaction type	3	
For an online application: Deployment of application to a publicly accessible web server such as Azure.	3	
For a mobile application: Deployment to an App Market place (such as the PlayStore or the AppStore)	6	
Deployment of the database to a remote database server	3	
Able to open Word or Excel and automatically place data in it based on the parameters provided (with a good business reason). For example, importing products and prices into the system.	6	
XML or JSON: At least 1 XML or JSON file for Importing or Exporting of data (with good business reason). For example, JSON can be used to interact with another system.	3	
Integrate an existing web service into your application (with good business reasons. For example, google API or weather forecast (with a good business reason)	3	

Description Of Functionality	Score	Iteration 4
Appropriate business use of static views on an alternative platform such as mobile application with a good business reason. For example, an about us page on your mobile app.	3	
The use of a data layer to facilitate interaction between your database and your business layer	3	3
Comprehensive use of stored procedures and/or triggers and/or jobs.	3	
Complete automated unit testing for five use cases.	5	
Any very advanced innovative addition to the system (e.g. machine learning, AI, block chain, text mining, IOT, etc.) If you implement a chatbot, it needs to have advance functionalities that you have developed and trained yourself.	5	
Total	156	46

Table 164: Completed Complexity Matrix

6. Sign-off by Client

Sign-Off Confirmation:

I, the undersigned, have reviewed the contents of this document and approved it as complete and accurate. I acknowledge that the information provided meets the requirements agreed upon with team 35, Canvas.

Client Name: Dané Coetzee

Signature:



Date: 12 April 2026

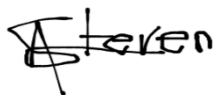
7. Sign-off by Team

Team member:

Name: Alexander Steven

Date: April 2025

Signature:



Team member:

Name: Amahle Khoza

Date: April 2025

Signature:



Team member:

Name: Christopher Bailey

Date: 12 April 2025

Signature:



Team member:

Name: Nicholas Bailey

Date: April 2025

Signature:



Team member:

Name: Stephan Bredenhann

Date: April 2025

Signature:

