

ALTEAN SYSTEM NAME: PROCION PROCUREMENT SYSTEM



THE TEAM: TEAM 11



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FUNCTIONAL SPECIFICATION: ITERATION 2

THIS DOCUMENT OUTLINES THE FUNCTIONAL SPECIFICATION FOR OUR CLIENT (MOYO BUSINESS ADVISORY). THIS DOCUMENT INCLUDES AN UPDATED LIST OF OUR FUNCTIONAL REQUIREMENTS, A DETAILED SPECIFICATION OF OUR USE CASE DIAGRAMS, OUR ENTITY RELATIONSHIP DIAGRAMS, OUR CLASS DIAGRAMS AND FINALLY OUR TEAM SIGN OFF. THE PURPOSE OF THIS DOCUMENT IS TO GIVE MORE INFORMATION ON THE TOPICS PREVIOUSLY MENTIONED

MOYO

Driving Significance Together



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1. DOCUMENT INTRODUCTION

In iteration 2 we focus on the functional specifications of the Procion system that we are developing. Here we try and gather insight about the functions and structures of the system to help us achieve a better understanding of how the system will operate and function. In this iteration we cover the Updated requirement list, use case diagrams, entity relationship diagram and the class diagram.

2. UPDATED FUNCTIONAL REQUIREMENTS

1.1 INTRODUCTION

In this section a list of the updated functional requirements will be listed for our proposed system Procion. The updated functional requirements are grouped into the following sub-systems: The user sub-system, Admin sub-system, Procurement sub-system, Finance sub-system, Inventory sub-system, Vendor sub-system and a Report sub-system.

1.2 FUNCTIONAL REQUIREMENT LIST

SUBSYSTEM 1 – USER SUBSYSTEM

- 1.1 Login
- 1.2 Logout
- 1.3 Forgot password.
- 1.4 Update password
- 1.5 View profile.
- 1.6 Update profile
- 1.7 View user manual.
- 1.8 View Help

2.13 Create Branch

2.14 View Branch

2.15 Update Branch

2.16 Delete Branch

2.17 Assign delegation of authority.

2.18 Accept Delegation request

2.19 Revoke delegation of authority

2.20 Create Mandate limits

2.21 View Mandate limits

2.22 Update Mandate limits

2.23 Delete Mandate limits

2.24 Backup system data

2.25 Restore data to system.

2.26 Add Help

2.27 Update Help

2.28 Delete Help

2.29 View all help

SUBSYSTEM 2 – ADMIN SUBSYSTEM

- 2.1 Create employee.
- 2.2 View employee
- 2.3 Update employee
- 2.4 Delete employee.
- 2.5 Create employee roles.
- 2.6 View employee roles
- 2.7 Update employee roles
- 2.8 Delete employee roles.
- 2.9 Create Department
- 2.10 View Department
- 2.11 Update Department
- 2.12 Delete Department

SUBSYSTEM 3 – PROCUREMENT

SUBSYSTEM

- 3.1 Create Procurement Request
- 3.2 View Procurement Request
- 3.3 Update Procurement Request
- 3.4 Delete Procurement Request
- 3.5 Management mandate approval
- 3.6 Upload Requisition quotes
- 3.7 Approve quote
- 3.8 Place procurement request
- 3.9 Receive Procurement item
- 3.10 Upload tax Invoice
- 3.11 Budget owner Requisition approval
- 3.12 Upload receipt
- 3.13 Upload credit card Payment

SUBSYSTEM 4 – FINANCE

SUBSYSTEM

- 4.1 Finalize procurement request
- 4.2 Upload proof of payment
- 4.3 Create budget allocation.
- 4.4 View budget allocation
- 4.5 Update budget allocation
- 4.6 Delete budget allocation.

SUBSYSTEM 5 – INVENTORY

SUBSYSTEM

- 5.1 Create inventory item.
- 5.2 View inventory item.
- 5.3 Update inventory item
- 5.4 Delete Inventory Item
- 5.5 Create item category.

5.6 View item category.

5.7 Update item category

5.8 Delete Item Category

5.9 Export inventory details

5.10 Generate reorder stock notification.

5.11 Complete Stock Take

SUBSYSTEM 6 – VENDOR

SUBSYSTEM

- 6.1 Create Vendor onboard Request
- 6.2 View Vendor onboard Request
- 6.3 Update Vendor Onboard Request
- 6.4 Delete Vendor Onboard Request
- 6.5 Approve onboard request
- 6.6 Create vendor
- 6.7 View vendor
- 6.8 Update Vendor
- 6.9 Delete vendor
- 6.10 Export Due Diligence Vendor Checklist
- 6.11 Generate Sole Supplier Review Notification
- 6.12 Generate BEE Certificate Expiry Notification

SUBSYSTEM 7 – REPORT

SUBSYSTEM

- 7.1 Generate Approved Vendor Report.
- 7.2 Generate BEE Spend Report.
- 7.3 Generate Vendor Spend Report
- 7.4 Generate Consumable Inventory Management Report.
- 7.5 Generate Business Unit Allocation Report
- 7.6 Generate Budget Variance Report

1.3 FUNCTIONAL REQUIREMENTS DESCRIPTION

SUBSYSTEM 1 – USER SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	1.1
Requirement name (use case name):	Login
Requirement short description:	The system should allow the user to log on to the system
Requirement detailed description and constraints:	<p>Description: Each user will log on to the system with their username and password. The information is then validated using the system's database and will end either by providing user access to what their authority level allows or by displaying an error message indicating the entered details are incorrect.</p> <p>Constraint(s):</p> <ul style="list-style-type: none"> • The user requires internet access
Business rules applicable to this requirement:	<ul style="list-style-type: none"> • All passwords must be encrypted and hashed. • The administrative must have added user into the system.
Revision date and Revision number:	03/17/2023 Version 2.0
Priority:	High

Table 1: 1.1 Login functional requirement

Functional Requirement	Explanation
Requirement number:	1.2
Requirement name (use case name):	Logout
Requirement short description:	The system should allow the user to log out of the system
Requirement detailed description and constraints:	<p>Description: The user will request to log out of the system. The system will then log the user out and the use case concludes once the user is returned to the login page successfully.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user requires internet access • User must be logged into the system. • The user must be able to log out from any page of the system.
Revision date and revision Number:	03/17/2023 Version 2.0
Priority:	High

Table 2: 1.2 Logout functional requirement

Functional Requirement	Explanation
Requirement number:	1.3
Requirement name (use case name):	Forgot password
Requirement short description:	The system should allow the user to reset their password if they forgot their password.
Requirement detailed description and constraints:	<p>Description: The user will request that he forgot his password. The system will prompt the user to enter the following details:</p> <ul style="list-style-type: none"> • Username/ email <p>The system will use two factor authentication to send a code to the user's email address. The system will prompt the user to enter the security code. Once the security code is entered the user will be prompted to enter a new password. The system will validate that the new password is not the same as the previous password. The system will notify the user that his password has been changed successfully.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user requires internet access • User must be logged out of the system. • The user must be registered on the system. • The new password cannot be the same as any previous passwords set by the user.
Revision date and revision Number:	03/17/2023 Version 2.0
Priority:	High

Table 3:1.3 Forgot password functional requirement

Functional Requirement	Explanation
Requirement number:	1.4
Requirement name (use case name):	Update password
Requirement short description:	The system should allow the user to reset their password
Requirement detailed description and constraints:	<p>Description: The user should be able to request a new password should they want to change their password. The user will request to change password in which the system will request their username, previous password, new password. The username and previous password will be validated using the system database if the validation is correct the password will be replaced. The user will then be notified of the successful password update.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user requires internet access • The user details must be verified before any changes are made. • The new password cannot be the same as any previous passwords set by the user.
Revision date and revision Number:	03/17/2023 Version 2.0
Priority:	High

Table 4: 1.4 Update password functional requirement

Functional Requirement	Explanation
Requirement number:	1.5
Requirement name (use case name):	View profile
Requirement short description:	The system should allow the user to view their own profile.
Requirement detailed description and constraints:	<p>Description: The user requests to view their profile. The system will retrieve the user's details from the database and display the following details:</p> <ul style="list-style-type: none"> • Username • Name • Surname • Telephone Number • Email <p>The complete user profile will be displayed to the user.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged in to the system • The user requires internet access.
Revision date and revision Number:	03/08/2023 Version 2.0
Priority:	High

Table 5:1.5 View profile functional requirement

Functional Requirement	Explanation
Requirement number:	1.6
Requirement name (use case name):	Update profile
Requirement short description:	Users should be able to view their own profile and edit some parts of their details.
Requirement detailed description and constraints:	<p>Description: The user requests to update their profile. The user will provide the specific details that they wish to update. The system will capture these details and validate the captured data. If the data validation returns a success the system will capture the newly updated details on the database.</p> <p>Constraint(s): Certain details cannot be updated without the proper access level.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged in to the system. • The user requires internet access.
Revision date and revision Number:	03/17/2023 Version 2.0
Priority:	High

Table 6: 1.6 Update profile functional requirement

Functional Requirement	Explanation
Requirement number:	1.7
Requirement name (use case name):	View user manual
Requirement short description:	The system should allow users to view the user manual.
Requirement detailed description and constraints:	<p>Description: The user will request to view the user manual. The user will navigate to the user manual using the system. This will provide users with the user manual that will help explain certain parts of the system and how to work with them.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged in to the system.
Revision date and revision Number:	03/21/2023 Version 2.0
Priority:	High

Table 7:1.7 View user manual functional requirement

Functional Requirement	Explanation
Requirement number:	1.8
Requirement name (use case name):	View Help
Requirement short description:	The system should allow users to view help pop-ups.
Requirement detailed description and constraints:	<p>Description: The system should allow users to view help pop-ups that can be found throughout various parts of the system. When the user hovers over the help icon the system will display a brief description of the purpose of the function. When the user clicks on the help icon the system will display a pop-up screen with a more detailed description and/or steps for that related function.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged in to the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 8:1.8 View help functional requirement

SUBSYSTEM 2 – ADMIN SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	2.1
Requirement name (use case name):	Create employee
Requirement short description:	The system should allow an admin with the right authority to create a new employee account.
Requirement detailed description and constraints:	<p>Description: The admin with the right authority should be able to create a new employee account. Where they will need to provide all the information such as:</p> <ul style="list-style-type: none"> • Username • Password • email address • phone number • name • surname <p>The system will send the user an email containing a temporary login, allowing them to activate their account. The details are then validated by the system and added to the database.</p> <p>Constraint(s): A duplicate account cannot be made.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system. • All needed details must be provided. • A strong password should be given. • The user requires internet access.
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 9:2.1 Create employee functional requirement.

Functional Requirement	Explanation
Requirement number:	2.2
Requirement name (use case name):	View employee
Requirement short description:	The system should allow an admin with the right authority to view and search all employee accounts on the system.
Requirement detailed description and constraints:	<p>Description: The admin with the right authority will request to either search or view all employee accounts on the system. The admin will select the employee account they would like to view. The system will then display all the related details for that account.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin with the right authority must be logged into the system.
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 10:2.2 View employee functional requirement

Functional Requirement	Explanation
Requirement number:	2.3
Requirement name (use case name):	Update employee
Requirement short description:	The system should allow the admin with the right authority to update an employee's account detail.
Requirement detailed description and constraints:	<p>Description: The admin with the right authority will request to view all employee accounts on the system. The admin will select the employee account they would like to update. The system will then display all the related details for that account where the admin can then edit any of the details.</p> <ul style="list-style-type: none"> • Username • Password • email address • phone number • name • surname <p>Once finished the system will validate the new details and either successfully update the details in the system database or it will display an error message regarding the details. The system then notifies the employee that their account has been updated.</p> <p>Constraint(s): The admin must “view” the employee account first before they will be able to update it.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin with the right authority must be logged into the system.
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 11:2.3 Update employee functional requirement

Functional Requirement	Explanation
Requirement number:	2.4
Requirement name (use case name):	Delete employee
Requirement short description:	The system should allow an admin with the right authority to delete an employee account.
Requirement detailed description and constraints:	<p>Description: The admin wishes to delete an employee profile. The admin views the profile they wish to delete and requests deletion. The system will validate that the employee can be deleted. If the validation returns a success the system will remove the employee profile from the database.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user with the right authority must be logged into the system. • The employee must not be with the company anymore.
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 12:2.4 Delete employee functional requirement

Functional Requirement	Explanation
Requirement number:	2.5
Requirement name (use case name):	Create employee roles
Requirement short description:	The system should allow an admin with the right authority to add new employee roles
Requirement detailed description and constraints:	<p>Description: Admin should be able to create new employee roles on the system. The admin will request to create new employee role. The system will request all relevant details</p> <ul style="list-style-type: none"> • Name • Description <p>The admin will provide the details and it will then be validated by the system. The system will notify the user if their role has been successfully added.</p> <p>Constraint(s): No duplication of roles will be allowed</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • Only users with the correct authority will be able to view employee roles.
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 13:2.5 Create employee roles functional requirement

Functional Requirement	Explanation
Requirement number:	2.6
Requirement name (use case name):	View employee roles
Requirement short description:	The system should allow the admin to view all employee roles
Requirement detailed description and constraints:	<p>Description: The admin will request to view all the employee roles saved on the system. The system will prompt the user to enter the role that they wish to search for. The user will provide the following details:</p> <ul style="list-style-type: none"> • Name <p>The system will search the system database for the record, retrieve the data and display it to the user.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • Only users with the correct authority will be able to view employee roles
Revision date and revision Number:	03/08/2023 Version 2.0
Priority:	High

Table 14:2.6 View employee roles functional requirement

Functional Requirement	Explanation
Requirement number:	2.7
Requirement name (use case name):	Update employee roles
Requirement short description:	The system should allow the admin to update an employee's roles.
Requirement detailed description and constraints:	<p>Description: The user will request to update an employee role. The user will select the employee role they would like to update. The system will then display the following details:</p> <ul style="list-style-type: none"> • Name • Description <p>The system will capture these details and perform validation in order to ensure that the details can be updated. Once the validation returns a success the system will update the relevant details in the systems database. The system will then notify the user that their role has been updated.</p> <p>Constraint(s): The admin must "view" the employee role first before they will be able to update it.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • Only users with the correct authority will be able to view employee roles
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 15:2.7 Update employee roles functional requirement

Functional Requirement	Explanation
Requirement number:	2.8
Requirement name (use case name):	Delete employee roles
Requirement short description:	The system should allow an admin to delete an employee role.
Requirement detailed description and constraints:	<p>Description: The admin will request to delete an employee role. The system will prompt the user to confirm if they are sure that they want to continue with the deletion. The system will validate the deletion request and if it returns a success the employee role will be removed from the database. The user will then be notified by the system that their role has been removed.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Only users with the correct authority will be able to delete employee roles
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 16:2.8 Delete employee roles functional requirement

Functional Requirement	Explanation
Requirement number:	2.9
Requirement name (use case name):	Create Department
Requirement short description:	The system should allow the admin to create a Department section on the system.
Requirement detailed description and constraints:	<p>Description: Admin should be able to create new department on to the system. The admin will request to create new department. The system will request the following details:</p> <ul style="list-style-type: none"> Name Description <p>The admin will provide the details and it will then be validated by the system. System will notify the admin that the department has successfully been created.</p> <p>Constraint(s): No duplicate departments allowed.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 2.0
Priority:	High

Table 17:2.9 Create department functional requirement

Functional Requirement	Explanation
Requirement number:	2.10
Requirement name (use case name):	View Department
Requirement short description:	The system should allow an admin to view all the departments.
Requirement detailed description and constraints:	<p>Description: The admin will request to view a department. The system will prompt the user to enter the following details:</p> <ul style="list-style-type: none"> • Name <p>The system will search for the relevant record in the database, and it will retrieve the data associated with it. The system will display the department data to the user.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 2.0
Priority:	High

Table 18:2.10 View department functional requirement

Functional Requirement	Explanation
Requirement number:	2.11
Requirement name (use case name):	Update Department
Requirement short description:	The system should allow an admin to update a department.
Requirement detailed description and constraints:	<p>Description: The admin will request to update a department on the system. The user will select the department they would like to update. The system will then display all the related details for that account where the admin can then edit any of the details.</p> <ul style="list-style-type: none"> • Name • Description <p>The system will capture these details and perform validation in order to ensure that the details can be updated. Once the validation returns a success the system will update the relevant details in the systems database. The system will then notify the user that their department has been updated.</p> <p>Constraint(s): Admin must first view all departments before they can select and update the required department.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 3.0
Priority:	High

Table 19:2.11 Update department functional requirement

Functional Requirement	Explanation
Requirement number:	2.12
Requirement name (use case name):	Delete Department
Requirement short description:	The system should allow an admin to delete a department.
Requirement detailed description and constraints:	<p>Description: Admin should be able to delete a selected department from the system. The system will confirm whether to continue with the deletion or not. All information for the department will then be deleted. The system notifies the admin that the department has been successfully removed.</p> <p>Constraint(s): Admin must first view all departments before they can select and delete the required department.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 3.0
Priority:	High

Table 20:2.12 Delete department functional requirement

Functional Requirement	Explanation
Requirement number:	2.13
Requirement name (use case name):	Create Branch
Requirement short description:	The system should allow an admin to create a branch on the system.
Requirement detailed description and constraints:	<p>Description: Admin should be able to create new branch on to the system. The admin will request to create new branch. The system will request the following details:</p> <ul style="list-style-type: none"> Name Street City Postal Code Province <p>The admin will capture the details and it will then be validated by the system. If the validation returns a success the system will create the new branch in the database. System will notify the admin that the branch has successfully been created.</p> <p>Constraint(s): No duplicate branches allowed</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 3.0
Priority:	High

Table 21:2.13 Create Branch functional requirement

Functional Requirement	Explanation
Requirement number:	2.14
Requirement name (use case name):	View Branch
Requirement short description:	The system should allow an admin to view all the branches on the system.
Requirement detailed description and constraints: <p>Description: The user will request to view a branch on the system. The system will prompt the user to enter the following details:</p> <ul style="list-style-type: none"> • Name <p>The user will select the branch they would like to view. The system will retrieve the relevant data from the system database. The system will then display all the related details for that branch.</p> <ul style="list-style-type: none"> • Name • Street • City • Postal Code • Province <p>Constraint(s): None.</p>	
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 3.0
Priority:	High

Table 22:2.14 View Branch functional requirement

Functional Requirement	Explanation
Requirement number:	2.15
Requirement name (use case name):	Update Branch
Requirement short description:	The system should allow an admin to update a branch
Requirement detailed description and constraints:	<p>Description: The admin will request to update a branch on the system. The user will select the branch they would like to update. The system will then display all the relevant details of the branch.</p> <ul style="list-style-type: none"> • Name • Street • City • Postal Code • Province <p>The system will capture these details and perform validation in order to ensure that the details can be updated. Once the validation returns a success the system will update the relevant details in the systems database. The system will then notify the user that their branch has been updated.</p> <p>Constraint(s): Admin must first view all branches before they can select and update the required branches.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 3.0
Priority:	High

Table 23:2.15 Update Branch functional requirement

Functional Requirement	Explanation
Requirement number:	2.16
Requirement name (use case name):	Delete Branch
Requirement short description:	The system should allow an admin to delete a branch.
Requirement detailed description and constraints:	<p>Description: Admin will request to delete a selected branch from the system. The system will confirm whether to continue with the deletion or not. All information for the branch will then be deleted. The system notifies that the admin that the branch has been successfully removed.</p> <p>Constraint(s): Admin must first view all branches before they can select and delete the required branch.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system.
Revision date and revision Number:	03/20/2023 Version 3.0
Priority:	High

Table 24:2.16 Delete Branch functional requirement

Functional Requirement	Explanation
Requirement number:	2.17
Requirement name (use case name):	Assign delegation of authority
Requirement short description:	The admin should be able to setup a delegation of authority
Requirement detailed description and constraints:	<p>Description: The admin will request to assign a delegation of authority. The admin will provide the details of when it will start and end and who will receive the authority. The system will then request the employee that's going on leave to complete the Delegation of Authority form and upload it back to the system. Once uploaded the system will notify the received delegation of authority employee that needs to take over from the employee that is going on leave about the delegation of authority.</p> <p>Constraint(s): Must be approved before anything authority is given. The user will not be able to complete this process until the completed Delegation of Authority form has been uploaded.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system. The required users must provide the needed information
Revision date and revision Number:	03/18/2023 Version 2.0
Priority:	High

Table 25:2.17 Assigning delegation of authority functional requirement

Functional Requirement	Explanation
Requirement number:	2.18
Requirement name (use case name):	Accept delegation request
Requirement short description:	The admin should be able to setup a delegation of authority
Requirement detailed description and constraints:	<p>Description: The employee who receives the delegation of authority will request the acceptance of the delegation request. Once the delegation request is accepted the user will be granted the same access and authority as the user that they are taking over from. The system then notifies the requester user of the accepted delegation of authority.</p> <p>Constraint(s): Must be approved before anything authority is passed on.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system. The required users must provide the needed information
Revision date and revision Number:	03/19/2023 Version 3.0
Priority:	High

Table 26:2.18 Accept delegation of authority functional requirement

Functional Requirement	Explanation
Requirement number:	2.19
Requirement name (use case name):	Revoke delegation of authority
Requirement short description:	The system will revoke a certain delegation of authority if the specified time period has passed
Requirement detailed description and constraints:	<p>Description: The system request to revoke a certain delegation of authority. The system will access the delegation of authority data in the systems database to continuously check and compare the date values given. If the end date has passed the system will revoke the access and authority of the delegated user back to their original access level. The system will then notify both the requester and the receiver about the shift in delegation of authority.</p> <p>Constraint(s): Time period set must be passed.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system. The required users must provide the needed information
Revision date and revision Number:	03/21/2023 Version 2.0
Priority:	High

Table 27: 2.19 Revoke delegation of authority functional requirement

Functional Requirement	Explanation
Requirement number:	2.20
Requirement name (use case name):	Create mandate limits
Requirement short description:	The system should allow the admin to set mandate limits for different departments for handling procurements without management approval
Requirement detailed description and constraints:	<p>Description: The admin will request to create a new mandate limit for a department. The system will request the user to select a role and provide the mandated limit. The required details are provided</p> <ul style="list-style-type: none"> Amount Department <p>The system will validate that the roles have no other set mandate limits and then update it as needed. The system then displays a success message for the user.</p> <p>Constraint(s): Only departments that does not have a non-default mandate limit should be displayed.</p>
Business rules applicable to this requirement:	<ul style="list-style-type: none"> User must be registered on the system. The user must have authority to access the create mandate limits. The different departments must be stored in the database
Revision date and Revision number:	03/19/2023 Version 2.0
Priority:	High

Table 28:2.20 Create mandate limits functional requirement

Functional Requirement	Explanation
Requirement number:	2.21
Requirement name (use case name):	View Mandate limits
Requirement short description:	The system should allow the admin to view the different employees with a mandate limited.
Requirement detailed description and constraints:	<p>Description: The admin will request to view all the mandated limits created for departments. The system will retrieve all required details from the relevant tables and display all the roles with an assigned mandate limit. The user should be able to view a specific role to display more detail regarding the mandate limit.</p> <p>Constraint(s): None.</p>
Business rules applicable to this requirement:	<ul style="list-style-type: none"> User must be registered on the system. The user must have the correct authority to view mandate limits
Revision date and Revision number:	03/19/2023 Version 2.0
Priority:	High

Table 29:2.21 View mandate limits functional requirement

Functional Requirement	Explanation
Requirement number:	2.22
Requirement name (use case name):	Update Mandate limits
Requirement short description:	The system should allow the admin to update the mandated limits in any department with non-default mandate limits in it.
Requirement detailed description and constraints:	<p>Description: The admin will request to update a mandate limit for a department. The system prompt the user to select the mandate limit that they wish to update. The user will select the limit and provide the following details:</p> <ul style="list-style-type: none"> Amount Department <p>The system will validate the details that need to be updated. If the validation returns a success the details will be updated on the system. The system finally displays a success message for the user.</p> <p>Constraint(s): None.</p>
Business rules applicable to this requirement:	<ul style="list-style-type: none"> User must be registered on the system. The user must have authority to access the create mandate limits.
Revision date and Revision number:	03/19/2023 Version 2.0
Priority:	High

Table 30:2.22 Update mandate limits functional requirement

Functional Requirement	Explanation
Requirement number:	2.23
Requirement name (use case name):	Delete Mandate limits
Requirement short description:	The system should allow the admin to delete any mandated limits of an employee or group.
Requirement detailed description and constraints:	<p>Description: The admin will request to delete a mandate limit for a role. The system will request the selection of a role for the deletion of the mandate limit. The system will validate the request in order to ensure that the data can be deleted. Once the validation returns a success the data will be removed from the system and based on their roles their mandate limits will be reset to default. The system finally displays a success message for the user.</p> <p>Constraint(s): None.</p>
Business rules applicable to this requirement:	<ul style="list-style-type: none"> The administrative must have added user into the system. The deleted employees mandated limits are reset to the default mandate limit based on their roles.
Revision date and Revision number:	03/19/2023 Version 2.0
Priority:	High

Functional Requirement	Explanation
Requirement number:	2.24
Requirement name (use case name):	Backup system data
Requirement short description:	The admin should be able to make a backup of all the data on the system.
Requirement detailed description and constraints:	<p>Description: The admin should be following a scheduled time for making a backup of the system data.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system.
Revision date and revision Number:	03/19/2023 Version 2.0
Priority:	High

Table 32:2.24 Backup system data functional requirement

Functional Requirement	Explanation
Requirement number:	2.25
Requirement name (use case name):	Restore data to system
Requirement short description:	The admin should be able to restore all data to the system using a backup.
Requirement detailed description and constraints:	<p>Description: The admin request to restore system to a previous version. The system will then restore all data to the point that it was last backed up.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system.
Revision date and revision Number:	03/19/2023 Version 2.0
Priority:	High

Table 33:2.25 Restore data to system functional requirement

Functional Requirement	Explanation
Requirement number:	2.26
Requirement name (use case name):	Add Help
Requirement short description:	The admin should be able to add a help section.
Requirement detailed description and constraints:	<p>Description: The admin will request to create a help section. The system will prompt the user to enter the following:</p> <ul style="list-style-type: none"> Category Description Video <p>The system will capture these details and create the help function on the system.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system. Only the admin can make use of the add help function
Revision date and revision Number:	03/19/2023 Version 2.0
Priority:	Medium

Table 34:2.26 Add help functional requirement

Functional Requirement	Explanation
Requirement number:	2.27
Requirement name (use case name):	Update Help
Requirement short description:	The admin should be able to update a help section.
Requirement detailed description and constraints:	<p>Description: The admin will request to update a help section. The system will prompt the user to update any of the following:</p> <ul style="list-style-type: none"> • Category • Description • Video <p>The system will capture these details and update the help function on the system's database.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system. • Only the admin can make use of update help.
Revision date and revision Number:	03/19/2023 Version 2.0
Priority:	Medium

Table 35:2.27 Update help functional requirement

Functional Requirement	Explanation
Requirement number:	2.28
Requirement name (use case name):	Delete Help
Requirement short description:	The admin should be able to Delete a help section.
Requirement detailed description and constraints:	<p>Description: The admin will request to delete a help section. The system will prompt the user to confirm that they want to delete the specified help section. The system will validate the request and once it retrieves a success the help section along with the following details will be deleted and removed from the system:</p> <ul style="list-style-type: none"> • Category • Description • Video <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system. • Only the admin can make use of Delete help. • The admin must confirm the deletion of the help.
Revision date and revision Number:	03/19/2023 Version 2.0
Priority:	Medium

Table 36:2.28 Delete help functional requirement

Functional Requirement	Explanation
Requirement number:	2.29
Requirement name (use case name):	View all help
Requirement short description:	The admin should be able to view all the help sections.
Requirement detailed description and constraints:	<p>Description: The admin will request to view a help section. The system will prompt the user to select a help section that they would like to view. The system will retrieve the help section from the system's database and display it to the user along with the following details:</p> <ul style="list-style-type: none"> • Category • Description • Video <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The admin must be logged into the system. • Only the admin can make use of View all help.
Revision date and revision Number:	03/19/2023 Version 2.0
Priority:	Medium

Table 37:2.29 View all help functional requirement

SUBSYSTEM 3 – PROCUREMENT SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	3.1
Requirement name (use case name):	Create procurement request
Requirement short description:	Allows user to make a new request for procurement.
Requirement detailed description and constraints: <p>Description: The user can request to make a new request for procurement. The system will request the following details:</p> <ul style="list-style-type: none"> • Vendor name (It can be an approved vendor selected from a dropdown list, or a other vendor from which the name should be specified) • Quote options <p>The system will validate the request. In the case of a “other” vendor that was selected, the system will validate the request to check if that vendor has been used more than 2 times. Once the request returns a success the request will be stored in the database and given the status of “Submitted” is assigned.</p> <p>Constraint(s): None.</p>	
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 38: 3.1 Create Procurement request.

Functional Requirement	Explanation
Requirement number:	3.2
Requirement name (use case name):	View procurement request
Requirement short description:	User will be able to view a request for procurement which has been made.
Requirement detailed description and constraints: <p>Description: The user requests to view a procurement request. When the view button is pressed, the procurement request should be displayed, which will detail the</p> <ul style="list-style-type: none"> • Vendor name • Quote options <p>The system will search the systems database and retrieve the relevant procurement request records and display it to the user where the user will be able to view the Procurement request details that have been stored on the system.</p> <p>Constraint(s): At least one procurement request must be present on the system.</p>	
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 39: 3.2 View procurement request.

Functional Requirement	Explanation
Requirement number:	3.3
Requirement name (use case name):	Update procurement request
Requirement short description:	The user should be able to update a request for procurement that has not yet been approved or rejected.
Requirement detailed description and constraints:	<p>Description: The user will request to update a procurement request. The user will select the request they would like to update. The system will then display all the related details for that account where the user can then edit any of the details.</p> <ul style="list-style-type: none"> • Vendor name • Quote options <p>Once finished the system will validate the new details and either successfully updated the details in the system database or it will display an error message regarding the details.</p> <p>Constraint(s): The request for procurement should be temporary disabled from being rejected or approved.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 40: 3.3 Update procurement request

Functional Requirement	Explanation
Requirement number:	3.4
Requirement name (use case name):	Delete procurement request
Requirement short description:	The user should be able to delete a request for procurement that has not yet been approved or rejected.
Requirement detailed description and constraints:	<p>Description: The user will request to delete a procurement request. The user will select the request they would like to delete. The system will prompt the user to confirm the deletion of the request. The request of deletion will be validated and if the validation returns a success, all information for the request will then be deleted. The system notifies that the request has been successfully removed.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 41: 3.4 Delete procurement request.

Functional Requirement	Explanation
Requirement number:	3.5
Requirement name (use case name):	Management mandate approval
Requirement short description:	The system will flag a procurement request when its cost is over a mandated limit and allow the *budget owner* to review request to either reject or accept request.
Requirement detailed description and constraints:	<p>Description: The system flags a procurement for going over mandated limit and notify the budget owner of the procurement request. The budget owner will request to review request. The system will display the procurement request and request that the user provide either accept or reject input. The input is provided by the user and either a reject or approved notification is sent to the requestor.</p> <p>Constraint(s): The procurement request must be larger than the requestor mandate limit.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The user must be logged in the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 42: 3.5 Management mandate approval

Functional Requirement	Explanation
Requirement number:	3.6
Requirement name (use case name):	Upload Requisition quotes
Requirement short description:	A user should be allowed to upload quotes during the procurement process.
Requirement detailed description and constraints:	<p>Description: The user would like to upload quotes for a procurement. The system will request the user to provide the required files. The user will select the files they want to upload from their device onto the system. The system will then save the files into the database. The system will display a success message if the files have been successfully added to the database.</p> <p>Constraint(s): The user will not be allowed to continue with the procurement process until 3 Quotes have been uploaded.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 43: 3.6 Upload Requisition quotes

Functional Requirement	Explanation
Requirement number:	3.7
Requirement name (use case name):	Approve quote
Requirement short description:	The system should allow quotes obtained for a procurement request to be approved.
Requirement detailed description and constraints:	<p>Description: The Budget owner requests to approve a quote. The system will prompt the user to select the quote that they wish to approve between the relevant options. The user will select the correct quote and subsequently approve it. Once the quote has been accepted the relevant buyer will be notified that the approval has been made</p> <p>Constraint(s): A procurement request must exist, and three quotes must be uploaded for this procurement request.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Budget Owner should be logged into the system
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 44: 3.7 Approve quote.

Functional Requirement	Explanation
Requirement number:	3.8
Requirement name (use case name):	Place procurement request
Requirement short description:	The system should allow the user to place order details into the system.
Requirement detailed description and constraints:	<p>Description: The user request to place order details. The system will request the following details:</p> <ul style="list-style-type: none"> • Requisition status • Procurement status • Payment status • Sign-Off status • Description • Owner • Source • Quotation • Asset number • Serial number • Vendor email • Vendor • Deposit Due Date • Deposit amount • Amount outstanding • Full payment due date • Total amount • CC Providers • Payment method • Paid on • Comment • Attachment <p>The provided details are then validated by the system and then saved into the database. The system then displays a success message for the user.</p> <p>Constraint(s): The procurement request quotes must have been approved.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 45: 3.8 Place procurement request

Functional Requirement	Explanation
Requirement number:	3.9
Requirement name (use case name):	Receive Procurement item
Requirement short description:	The user should be allowed to update stock items for when receiving procurement items.
Requirement detailed description and constraints:	<p>Description: The user will request to add the stock received on the system. The system will retrieve the data from the procurement request and prompt the user to enter the quantity received. The user will enter the following details relative to the procurement request item:</p> <ul style="list-style-type: none"> • Amount <p>The system will capture the relevant details and the amount will be saved on the system's database. An on-screen notification will be displayed to the user to inform them of the successful stock capture.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system. • The request must be approved.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 46: 3.9 Receive Procurement item.

Functional Requirement	Explanation
Requirement number:	3.10
Requirement name (use case name):	Upload tax Invoice
Requirement short description:	A user should be allowed to upload a tax invoice.
Requirement detailed description and constraints:	<p>Description: The user would like to upload a tax invoice for a procurement request. The system will request the user to provide the required file. The user will select the file they want to upload from their device onto the system. The system will then save the files with into the database. The system will display a success message if the file has been successfully added to the database.</p> <p>Constraint(s): The system will not allow the user to continue with the procurement process until the invoice has been uploaded to the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 47: 3.10 Upload tax Invoice

Functional Requirement	Explanation
Requirement number:	3.11
Requirement name (use case name):	Budget owner Requisition approval
Requirement short description:	The system should allow the budget owner to review the requisition request and approve or reject it.
Requirement detailed description and constraints:	<p>Description: The user request to review the requisition request. The system will display all the details from the procurement request. The budget owner will verify the uploaded invoice, the total amount due, and the selected budget line. After verification the budget owner will either accept or reject the procurement request and notify the appropriate parties.</p> <p>If the request is approved the system will notify the Finance department to continue with payment.</p> <p>If the request is rejected the buyer will be notified to make the requested changes.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged into the system. The request must be approved.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 48: 3.11 Budget owner Requisition approval

Functional Requirement	Explanation
Requirement number:	3.12
Requirement name (use case name):	Upload receipt
Requirement short description:	A user should be allowed to upload a receipt.
Requirement detailed description and constraints:	<p>Description: The user would like to upload a receipt for a procurement request. The system will request the user to provide the required file. The user will select the file they want to upload from their device onto the system. The system will then save the file into the database. The system will display a success message if the file has been successfully added to the database.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged into the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 49: 3.12 Upload receipt

Functional Requirement	Explanation
Requirement number:	3.13
Requirement name (use case name):	Upload credit card Payment
Requirement short description:	A user should be allowed to upload a credit card payment.
Requirement detailed description and constraints:	Description: The user would like to upload a credit card payment for a procurement request. The system will request the user to provide the required file. The user will select the file they want to upload from their device onto the system. The system will then save the file into the database. The system will display a success message if the file has been successfully added to the database. Constraint(s): None
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The request must have a status of approved
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 50: 3.13 Upload credit card Payment

SUBSYSTEM 4 – FINANCE SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	4.1
Requirement name (use case name):	Finalize procurement requests
Requirement short description:	The user should be able to search or view all invoices on the system.
Requirement detailed description and constraints:	<p>Description: The user would like to finalize a procurement request. The user would select the procurement request that is awaiting payment. The request would be reviewed and paid outside of the system. The user will then upload the proof of payment (optional) and finalize the procurement request. The system will then automatically deduct the amount of the invoice from the requesters procurement items specific budget line. A notification would then be sent to the requester that their procurement request has been finalized.</p> <p>Constraint(s): Procurement request must exist beforehand</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system. • A procurement item request must be approved. • Invoice must be uploaded to the system
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 51: 4.1 Finalize procurement requests.

Functional Requirement	Explanation
Requirement number:	4.2
Requirement name (use case name):	Upload proof of payment
Requirement short description:	The user should be able upload proof of payment
Requirement detailed description and constraints:	<p>Description: The user would like to upload a proof of payment for their specific procurement request. The user will select the file they want to upload from their device onto the system. The system will store the proof of payment on the system database.</p> <p>Constraint(s): The File that the user should upload must be the proof of payment of their specific procurement request.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system. • The user must have the right authority to upload a POP.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 52: 4.2 Upload proof of payment

Functional Requirement	Explanation
Requirement number:	4.3
Requirement name (use case name):	Create budget allocation
Requirement short description:	The user should be able to create a new budget allocation for a department.
Requirement detailed description and constraints: <p>The user would like to add a budget allocation to the system. The system should allow the user to upload a csv file to the system. The system will gather the following details.</p> <ul style="list-style-type: none"> • Budgeted figures per month • Actual figures per month • Operational expenses per month • Department name • Salaries per month <p>The system will capture the data on the system and save it in the systems database. The system will notify the relevant budget owner that the budget has been created.</p> <p>Constraint(s): None</p>	
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system. • The user must have the right authority to create a budget allocation.
Revision date and revision Number:	03/08/2023 Version 2.0
Priority:	High

Table 53: 4.3 Create Budget allocation

Functional Requirement	Explanation
Requirement number:	4.4
Requirement name (use case name):	View budget allocation
Requirement short description:	The user should be able to view all budget allocation for the different departments.
Requirement detailed description and constraints:	<p>Description: The user requests to view all budget allocation for the different departments. The system will retrieve the following details:</p> <ul style="list-style-type: none"> • Budgeted figures per month • Actual figures per month • Operational expenses per month • Department name • Salaries per month <p>This information will be displayed to the user.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system. • The user must have the right authority to access budget allocation.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 54: 4.4 View budget allocation

Functional Requirement	Explanation
Requirement number:	4.5
Requirement name (use case name):	Update budget allocation
Requirement short description:	The user should be able update the budget allocation
Requirement detailed description and constraints:	<p>Description: The user will request to view all budget allocations on the system. The user will select the request they would like to update. The user has the option to update the relevant details on the system which includes:</p> <ul style="list-style-type: none"> • Adding and removing of line items • Changing figures <p>The relevant changes will be stored on the system's database.</p> <p>Constraint(s): There must be a budget allocation created on the system</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged into the system. • The user must have the right authority to access budget allocation.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 55: 4.5 Update budget allocation

Functional Requirement	Explanation
Requirement number:	4.6
Requirement name (use case name):	Delete budget allocation
Requirement short description:	The system should allow a user to delete a budget allocation.
Requirement detailed description and constraints:	Description: The user would like to delete a budget allocation. The user would view the budget that they would like to remove. Once the user has chosen to remove the budget allocation, the system will validate the request. If the validation returns a success the user will be notified that the budget has been successfully deleted and the data will be removed from the system. Constraint(s): There must be a budget created on the system.
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged into the system. • The user must have the right authority to access budget allocation.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 56: 4.6 Delete budget allocation.

SUBSYSTEM 5 – INVENTORY SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	5.1
Requirement name (use case name):	Create inventory item
Requirement short description:	The system should allow a procurement inventory item to be created
Requirement detailed description and constraints:	<p>Description: The use case describes the event where the user will want to create a new inventory item. The system will prompt the user to enter the product details. Including:</p> <ul style="list-style-type: none"> • Item name • Item description • Item Category <p>Once this is complete and the item is saved the item will be added to the system's database.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged in to the system. • Only users with the correct authority will be able to add a new procurement item onto the system.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 57: 5.1 Create inventory item

Functional Requirement	Explanation
Requirement number:	5.2
Requirement name (use case name):	View inventory item
Requirement short description:	The system should allow the user to view a specific inventory item.
Requirement detailed description and constraints:	<p>Description: The use case describes the event where a user would want to search for a specific inventory item. The item can be searched for with the following details:</p> <ul style="list-style-type: none"> • Item name • ItemID <p>The system will search through all of the records in the database and retrieve the correct item and display it to the user based on their search criteria.</p> <p>Constraint(s): There needs to be an inventory item created on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged in to the system
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 58: 5.2 View inventory item

Functional Requirement	Explanation
Requirement number:	5.3
Requirement name (use case name):	Update inventory item
Requirement short description:	The system should allow the user to update procurement item details
Requirement detailed description and constraints:	<p>Description: The use case describes the event where a user would want to update certain procurement item details. The user will view the item that they wish to update. They will enter the relevant details that they wish to change and once updated the data will be validated on the system. If the validation returns a success, the details will be saved on the systems database.</p> <p>Constraint(s): There needs to be an inventory item on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The admin must be logged into the system.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 59: 5.3 Update inventory item

Functional Requirement	Explanation
Requirement number:	5.4
Requirement name (use case name):	Delete Inventory Item
Requirement short description:	The system should allow the user to delete an inventory item.
Requirement detailed description and constraints:	<p>Description: This use case describes the event where the user requests to delete an inventory item. The user will select the inventory item they want to delete. The system will ask the user for confirmation of deletion. The system will validate the request of deletion. If the validation returns a success the system will remove the procurement inventory item from the system.</p> <p>Constraint(s): An inventory item needs to be on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged in to the system. Only the admin will be able to delete inventory items.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 60: 5.4 Delete inventory item

Functional Requirement	Explanation
Requirement number:	5.5
Requirement name (use case name):	Create item category
Requirement short description:	The system should allow a procurement item category must be created
Requirement detailed description and constraints:	<p>Description: The use case describes the event where a user wants to create a procurement item category on the system. The system will prompt the user to enter the category details such as:</p> <ul style="list-style-type: none"> • Category name • Category Description <p>Once this is complete and the category is saved the category will be added to the system's database.</p> <p>Constraint(s): None.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged in to the system. • Only users with the correct authority will be able to add a new procurement item onto the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 61: 5.5 Create item category

Functional Requirement	Explanation
Requirement number:	5.6
Requirement name (use case name):	View Item category
Requirement short description:	The system should allow the user to view a specific items category
Requirement detailed description and constraints:	<p>Description: The use case describes the event where a user would want to search for a specific item category. The item can be searched for with the following details:</p> <ul style="list-style-type: none"> • category name • Category ID <p>The system will search through all of the records in the database and retrieve the correct category and display it to the user based on their search criteria.</p> <p>Constraint(s): There needs to be an inventory item category created on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • User must be logged in to the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 62: 5.6 View item category

Functional Requirement	Explanation
Requirement number:	5.7
Requirement name (use case name):	Update Item Category
Requirement short description:	The system should allow the user to update a specific item category
Requirement detailed description and constraints:	<p>Description: The use case describes the event where a user would want to update certain procurement item category details. The user will view the category that they wish to update. They will enter the relevant details that they wish to change and once updated the data will be validated on the system. If the validation returns a success, the details will be saved on the systems database.</p> <p>Constraint(s): There needs to be an inventory item category on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged in to the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 63: 5.7 Update Item Category

Functional Requirement	Explanation
Requirement number:	5.8
Requirement name (use case name):	Delete Item Category
Requirement short description:	The system should allow the user to delete a specific item category
Requirement detailed description and constraints:	<p>Description: This use case describes the event where the user requests to delete an inventory category. The user will select the category they want to delete. The system will ask the user for confirmation of deletion. The system will validate the request of deletion. If the validation returns a success the system will remove the procurement inventory category from the system.</p> <p>Constraint(s): An inventory item category needs to be on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> User must be logged in to the system. Only the admin will be able to delete category items.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 64: 5.8 Delete Item Category

Functional Requirement	Explanation
Requirement number:	5.9
Requirement name (use case name):	Export inventory details
Requirement short description:	The system will allow the user to export the details of the procurement item inventory to a CSV file
Requirement detailed description and constraints:	<p>Description: The use case describes the event where the user would like to export the details contained in the procurement item inventory system (Item name, stock on hand) to a .csv file in the structure supported by Xero. The user will export the inventory list and the .csv will be generated as response.</p> <p>Constraint(s): There must be inventory loaded on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The user with the right authority must be logged into the system.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 65: 5.9 Export inventory details

Functional Requirement	Explanation
Requirement number:	5.10
Requirement name (use case name):	Generate reorder stock notification
Requirement short description:	The system should notify the appropriate user when the inventory levels reach a designated minimum
Requirement detailed description and constraints:	<p>Description: The use case describes the event where the system notifies the appropriate user of low stock levels and re-ordering is needed. The system will continuously compare the current stock level to the designated minimum stock level and if the two values are equal (at the minimum point) a notification will be sent to the appropriate user to notify them that stock will need to be re-ordered.</p> <p>Constraint(s): There must be inventory loaded on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Only the appropriate users will be able to receive the notification
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 66: 5.10 Generate reorder stock notification.

Functional Requirement	Explanation
Requirement number:	5.11
Requirement name (use case name):	Complete stock take
Requirement short description:	The system should allow the user to complete a stock take.
Requirement detailed description and constraints:	<p>Description: The use case describes the event where the user completes a stock take, and the stock levels of different consumables are entered and updated. The user will select the items for which they intend to perform a stock take, and the system will prompt them to enter the amount of stock which exists for these items, after which this data will be captured and saved to the system database.</p> <p>Constraint(s): There must be inventory loaded on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Only the appropriate users will be able to perform a stock take
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 67: 5.11 Complete stock take

SUBSYSTEM 6 – VENDOR SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	6.1
Requirement name (use case name):	Create Vendor onboard Request
Requirement short description:	The system should allow the user to create a vendor onboard request.
Requirement detailed description and constraints:	<p>Description: The system should allow the user to create a vendor onboard request. The system should allow the user to select between a normal vendor or a sole supplier.</p> <p>In the case of a normal vendor: The user would have had to collect 2 quotes from 2 different companies. The system will prompt the user to upload the documents from their computer's file system. The user will be prompted to enter the company name related to each quote. The user will then confirm the request which will notify the Procurement department for approval.</p> <p>In the case of a sole supplier: 2 Quotes are not necessary to obtain in this instance. The user will provide the company name and reason for this vendor to be approved with the option of providing a quote. The user will then confirm the request which will notify the Managing director for approval.</p> <p>Constraint(s): A number of 2 Quotes and company names must be added to the request for the user to be able to proceed with the process if the sole supplier option is NOT selected.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> The user must be logged into the system. The business requires a minimum of 2 quotes for a vendor to be onboarded in the case of a normal vendor. Sole suppliers do not need to have quotes as supporting documents but require the managing director's approval
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 68: 6.1 Create Vendor onboard Request.

Functional Requirement	Explanation
Requirement number:	6.2
Requirement name (use case name):	View Vendor onboard Request
Requirement short description:	The system should allow the user to view the vendor onboard request
Requirement detailed description and constraints:	<p>Description: Under the vendor section, the requester (user) should be able view their current vendor onboard requests. When the view button is pressed, the request should be displayed along with the uploaded quotes, company names, and the current status of the request.</p> <p>Constraint(s): An existing request needs to have been created.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged into the system. • Only the user can update their own request.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 69: 6.2 View Vendor onboard Request

Functional Requirement	Explanation
Requirement number:	6.3
Requirement name (use case name):	Update Vendor onboard Request
Requirement short description:	The system should allow the requester (user) to update their vendor onboard request.
Requirement detailed description and constraints:	<p>Description: The requester(user) requests to edit a vendor onboard request. Under the vendor section, the requester (user) should be able update their current vendor onboard requests. The system will prompt the user to enter the details that they wish to update. The user would update the details and validation will be performed. If the validation returns a success the details will be updated on the system.</p> <p>The system will notify the Procurement department of the update and request approval.</p> <p>Constraint(s): An existing request needs to have been created. A number of 3 Quotes and company names must be added to the request for the user to be able to proceed with the process.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged into the system. • Only the user can update their own request. • The business requires a minimum of 3 quotes for a vendor to be onboarded.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 70: 6.3 Edit Vendor onboard request

Functional Requirement	Explanation
Requirement number:	6.4
Requirement name (use case name):	Delete Vendor onboard Request
Requirement short description:	The system should allow the requester (user) to remove their vendor onboard request from the system.
Requirement detailed description and constraints:	<p>Description: The user wishes to delete a specific onboard request. The user would select the specific request that they would like to delete. The user will delete the specific onboard request, it will be validated on the system to ensure that there are no associated records to the request and if the validations succeed the data will be removed from the system.</p> <p>Constraint(s): The user must first view the vendor onboard requests before they will be able to remove a request from the system. An existing request needs to have been created.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged into the system. • Only the user can remove their own request.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 71: 6.4 Delete Vendor onboard Request

Functional Requirement	Explanation
Requirement number:	6.5
Requirement name (use case name):	Approve onboard request
Requirement short description:	The system should allow the GRC officer to approve a vendor onboarding request.
Requirement detailed description and constraints: <p>Description: The GRC officer requests to approve a vendor onboard request. The GRC officer will select the request that they wish to approve. The system will display the following details which relates to the onboard request:</p> <ul style="list-style-type: none"> • Name • 3 quotes <p>The GRC officer will approve the correct company on the system. The system will prompt the GRC officer to add the vendor's name, BEE rating, BEE certificate, and BEE expiration date to a Vendor Setup form.</p> <p>In the case of a sole supplier: The managing director will request to view the onboard request on the system. The following detail will be displayed:</p> <ul style="list-style-type: none"> • Vendor Name • Relevant Reason • Optional quote <p>The managing director will approve the setup request. The system will notify the GRC officer to add the vendor's name, BEE rating, BEE certificate, and BEE expiration date to a Vendor Setup form.</p> <p>In both cases of a sole supplier and a normal vendor the system will send a notification, along with the uncompleted Vendor Setup form containing the vendor's name, BEE rate, BEE certificate, and BEE expiration date, to the buyer/requester notifying them that they can proceed with the vendor setup process.</p> <p>Constraint(s): None</p>	
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The GRC officer/ managing director must be logged into the system. • The vendor's name, BEE rating, BEE certificate, and BEE expiration date must be added to the form approval process to be completed.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 72: 6.5 Approve onboard request

Functional Requirement	Explanation
Requirement number:	6.6
Requirement name (use case name):	Create vendor
Requirement short description:	The system should allow a vendor to be added on the system once the Vendor onboard request has been approved.
Requirement detailed description and constraints:	<p>Description: The user wishes to create a vendor on the system. The user will select the vendor that they have requested and that has been approved and they will provide the following details:</p> <p>Company Contact Information</p> <ul style="list-style-type: none"> • Telephone • Fax • Email • Point of Contact Title • Point of Contact Name • Contact Phone Number • Registered Address • Website • Contact Email • Second Contact Phone number <p>Company Overview Information</p> <ul style="list-style-type: none"> • Details of goods and services • Vat registration number • Vat Registration Document • Company Registration Number • Income tax Number • Tax clearance certificate • NDA Details • NDA Document • Signed Agreement Details • Signed Agreement Document • Popia Compliant Details • Popia Compliant document • Insurance Cover Details • Insurance Cover Document • Payment Terms Details • License/ Accreditation Number • Additional Info <p>Bank Name</p> <ul style="list-style-type: none"> • Bank Name • Branch Code • Account Name • Account Type • Account Number • Bank Contact Name • Bank Contact Phone Number • <p>The system will take these details and save them on the system's database.</p>

	<p>Constraint(s):</p> <ul style="list-style-type: none"> • The system will not allow the user to proceed if they have not uploaded the accompanying documents to the following fields: • Vat Registration Number • Income Tax Number • NDA Details • Signed Agreement Details • POPIA Compliant Details • Insurance Cover Details
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user must be logged in to the system. • The vendor will only be able to be created once the onboarding request has been approved
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 73: 6.6 Create vendor

Functional Requirement	Explanation
Requirement number:	6.7
Requirement name (use case name):	View Vendor
Requirement short description:	The system should allow a specific vendor and the details associated with the vendor to be viewed.
Requirement detailed description and constraints:	<p>Description: The user wishes to view a specific vendor. The user will search for the user using the following details:</p> <ul style="list-style-type: none"> • Company name <p>The system will search the systems database and retrieve the relevant vendor record and display it to the user where the user will be able to view the vendor details that have been stored on the system.</p> <p>Constraint(s): There needs to be a vendor added on the system</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user needs to be logged in to the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 74: 6.7 View Vendor

Functional Requirement	Explanation
Requirement number:	6.8
Requirement name (use case name):	Update Vendor
Requirement short description:	The system should allow the user to update a specific vendor on the system.
Requirement detailed description and constraints:	<p>Description: The user wishes to update a specific vendor. The user will search for the vendor that they wish to update by providing the following details:</p> <ul style="list-style-type: none"> • Company Name <p>The user will select the vendor that they wish to update, they will update the relevant details and the details will be updated on the systems database.</p> <p>Constraint(s): There needs to be a vendor added onto the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user needs to be logged in to the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 75: 6.8 Update Vendor

Functional Requirement	Explanation
Requirement number:	6.9
Requirement name (use case name):	Delete Vendor
Requirement short description:	The system should allow the user to delete a specific vendor record
Requirement detailed description and constraints:	<p>Description: The user wishes to delete a specific vendor. The user would select the specific vendor that they would like to delete. The user will delete the specific vendor, it will be validated on the system to ensure that there are no associated records to the request and if the validations succeed the data will be removed from the system.</p> <p>Constraint(s): There needs to be a vendor added onto the system</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user needs to be logged into the system • Only a user with the correct access level will be allowed to remove a vendor from the system
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 76: 6.9 Delete Vendor

Functional Requirement	Explanation
Requirement number:	6.10
Requirement name (use case name):	Export due diligence vendor checklist
Requirement short description:	The system should allow the user to export a due diligence vendor checklist.
Requirement detailed description and constraints:	<p>Description: The user would like to export a vendor due diligence checklist. The user would search for the vendor by using the following fields:</p> <ul style="list-style-type: none"> • Company name <p>The user would select the vendor and export the checklist which will be downloaded in a structured pdf format.</p> <p>Constraint(s): The due diligence checklist for the specific vendor needs to be completed.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • The user needs to be logged in to the system. • The user with the correct access level will be able to export the due diligence checklist
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 77: 6.10 Export due diligence vendor checklist

Functional Requirement	Explanation
Requirement number:	6.11
Requirement name (use case name):	Generate Sole Supplier Review Notification
Requirement short description:	The system should generate a notification to indicate that a Sole supplier should be reviewed.
Requirement detailed description and constraints:	<p>Description: Notifications should be generated by the system which indicate that a Sole supplier should undergo a performance review. This notification will be sent on the first day of the month in which the vendor was first added to the system.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • None
Revision date and revision Number:	03/19/2023 Version 1.0
Priority:	Medium

Table 78: 6.11 Generate Sole Supplier Review Notification

Functional Requirement	Explanation
Requirement number:	6.12
Requirement name (use case name):	Generate BEE Certificate Expiry Notification.
Requirement short description:	The system should generate a notification to indicate the expiry of a BEE certificate
Requirement detailed description and constraints:	<p>Description: Notifications should be generated by the system which indicate that the expiry date of a BEE certificate which has been added to the system is nearing. This should be done 1 week before, 3 weeks before, as well as once the expiry date for the certificate has officially been reached. This notification should be sent to the GRC officer via email.</p> <p>Constraint(s): At least 1 BEE certificate should be present on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • None
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	Medium

Table 79: 6.12 Generate BEE Expiry Certification Notification

SUBSYSTEM 7 – REPORT SUBSYSTEM

Functional Requirement	Explanation
Requirement number:	7.1
Requirement name (use case name):	Generate approved vendor Report
Requirement short description:	The system should allow the user to generate a list of the approved vendors.
Requirement detailed description and constraints:	<p>Description: The GRC officer request to generate an approved vendor report. The system will generate the report which includes a list of all the vendors which have the status of “approved”. The system will display the option to download the report in a PDF format.</p> <p>Constraint(s): There must be at least one vendor with at least one procurement item they sell on the system.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Head of governance and compliance (Arina van der Merwe) must be logged into the system. Only Head of governance and compliance (Arina van der Merwe) can generate this report.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 80: 7.1 Generate approved vendor report.

Functional Requirement	Explanation
Requirement number:	7.2
Requirement name (use case name):	Generate BEE spend report
Requirement short description:	The system should allow to generate a BEE spending report.
Requirement detailed description and constraints:	<p>Description: The owner, financial department, business enablement department and governance and compliance department requests to generate a BEE spend report. The system will generate a table with the following columns with the respective information in each column: Paid to, Amount paid, amount paid for, Budget owner, Account code, BEE level, Cert on file, requested and comments. This data will be retrieved from the system's database. The system will display the option to the stakeholders to download the report in a structured PDF format.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Stakeholders must be logged into the system.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 81: 7.2 Generate BEE spend report.

Functional Requirement	Explanation
Requirement number:	7.3
Requirement name (use case name):	Generate Vendor Spend Report
Requirement short description:	The system should allow to generate a vendor spending report.
Requirement detailed description and constraints:	<p>Description: The financial department and governance and compliance department requests to generate a vendor spend report. The system will generate a list of the vendors and how much has been spent on each procurement item of that vendor as well as the total spent on that vendor which will be retrieved from the system's database. The system will display the option to all the previously mentioned stakeholders to download the specified report in a structured PDF format</p> <p>Constraint(s): Business enablement department will not be able to generate this report.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • Users of the financial department and governance and compliance department must be logged out of the system. •
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 82: 7.3 Generate Vendor Spend Report

Functional Requirement	Explanation
Requirement number:	7.4
Requirement name (use case name):	Generate Consumable Inventory management report
Requirement short description:	The system should be able to generate a consumable inventory management report.
Requirement detailed description and constraints:	<p>Description: The financial department and Business enablement department requests to generate the consumable inventory management report. The system will generate a table with the following columns with the respective information in each column: Item number, item name, item category, quantity on hand, usual order quantity, unit price which will be retrieved from the system's database. The system will display the option to all the previously mentioned stakeholders to download the report in a structured PDF format.</p> <p>Constraint(s): The governance and compliances department will not be able to see this report.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> • Users of the financial department and Business enablement department must be logged out of the system. •
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 83: 7.4 Generate Consumable Inventory management report

Functional Requirement	Explanation
Requirement number:	7.5
Requirement name (use case name):	Generate Business Unit allocation Report
Requirement short description:	The system should allow to generate a business unit allocation spend report
Requirement detailed description and constraints:	<p>Description: The financial department, Business enablement department and governance and compliance department requests to generate the business unit allocation report. The system will generate a plotted trend graph that clearly indicates a return to vendor cost and vendor rejection/defect rate and supplier quantity rating and spend under management. The system will display the option to all the previously mentioned stakeholders to download the report in a structured PDF format.</p> <p>Constraint(s): None</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Users of the financial department and Business enablement department and governance and compliance department must be logged out of the system.
Revision date and revision Number:	03/16/2023 Version 2.0
Priority:	High

Table 84: 7.5 Generate Business Unit allocation report.

Functional Requirement	Explanation
Requirement number:	7.6
Requirement name (use case name):	Generate Budget Variance Report
Requirement short description:	The system should allow to generate budget variance report.
Requirement detailed description and constraints:	<p>Description: The financial department and Business enablement department requests to generate the budget variance report. The system will generate a table with the following columns with the respective information in each column: Item, budget, actual, variance favorable/unfavorable which will be retrieved from the system's database. The system will display the option to all the previously mentioned stakeholders to download the report in a structured PDF format.</p> <p>Constraint(s): Governance and compliances will not be able to view this report.</p>
Business rules applicable to this Requirement:	<ul style="list-style-type: none"> Users of the financial department and Business enablement department must be logged out of the system.
Revision date and revision Number:	03/08/2023 Version 1.0
Priority:	High

Table 85: 7.6 Generate Budget Variance Report

1.4 CONCLUSION

This Concludes the updated requirement list for the Procion system. The updated requirement list with the following subsystems: The user sub-system, Admin sub-system, Procurement sub-system, Finance sub-system, Inventory sub-system, Vendor sub-system and a Report sub-system with the description and explanation of each.

2. FUNCTIONAL REQUIREMENT CLIENT SIGN OFF

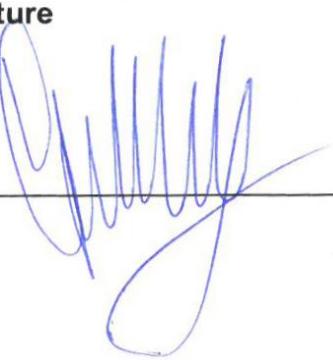
PROCION SYSTEM: Functional Specification (Updated Functional requirements)

Business Name: MOYO Business Advisory

I, Vumile Gumbi, Hereby confirm that I have read the list of updated functional requirements and agree that the information contained therein is complete, accurate and meets the requirements of the project.

BY SIGNING I CONFIRM THAT:

1. I have reviewed the changes made to the functional requirements.
2. I accept the changes as complete and satisfactory.

Signed by:
Name: <u>Vumile Gumbi</u>
Date: <u>24/03/2023</u>
Signature 

3. USE CASE DIAGRAM

3.1 INTRODUCTION

In this section we provide a visual representation of the logical use case diagrams for each sub system. This clearly states each actor and the role that they play within the Procion system.

3.2 USE CASE DIAGRAMS

3.3.1 SUBSYSTEM 1 - USER SUBSYSTEM

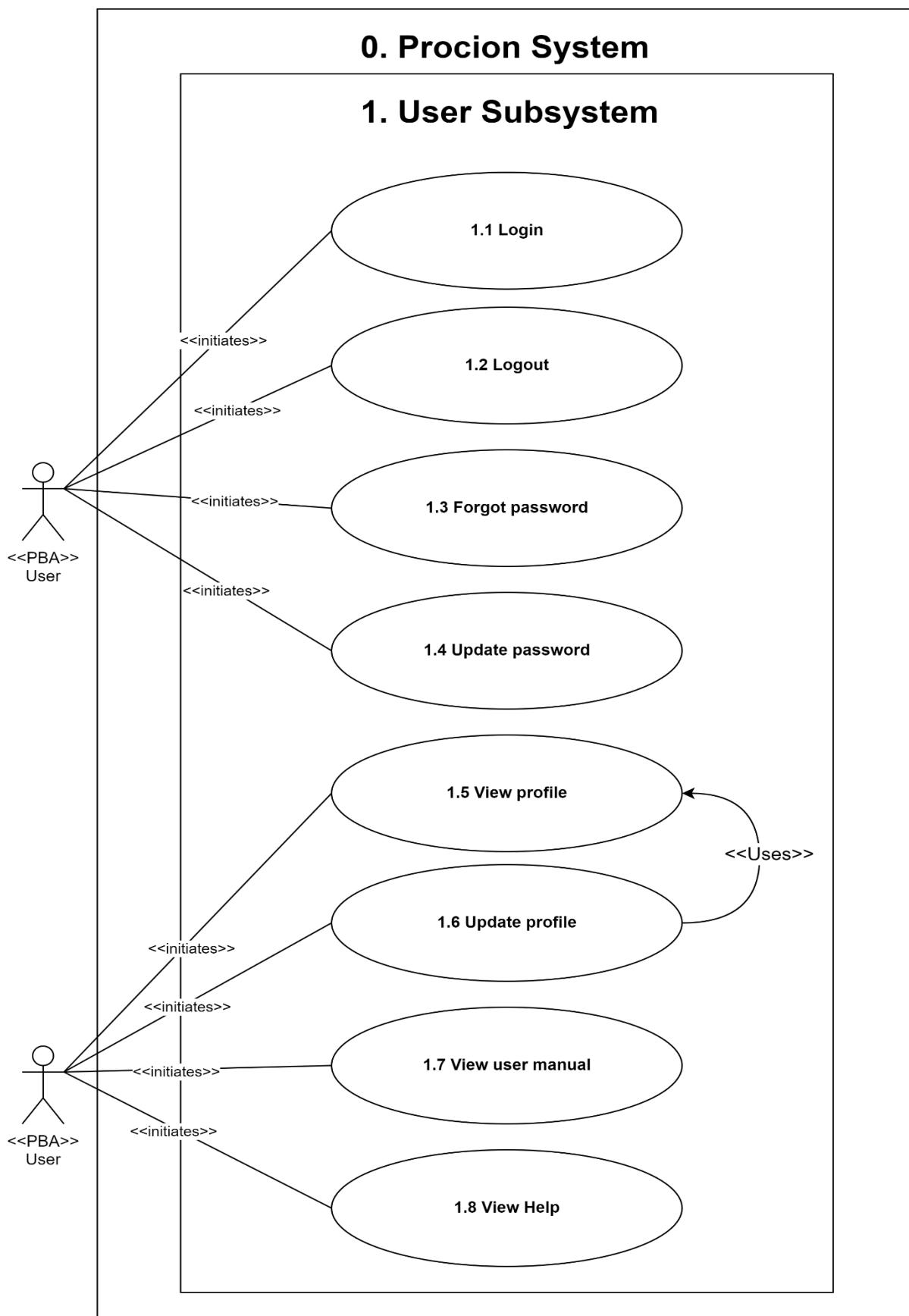


Figure 1 Use Case Diagram - Subsystem 1

3.3.2 SUBSYSTEM 2 – ADMIN SUBSYSTEM

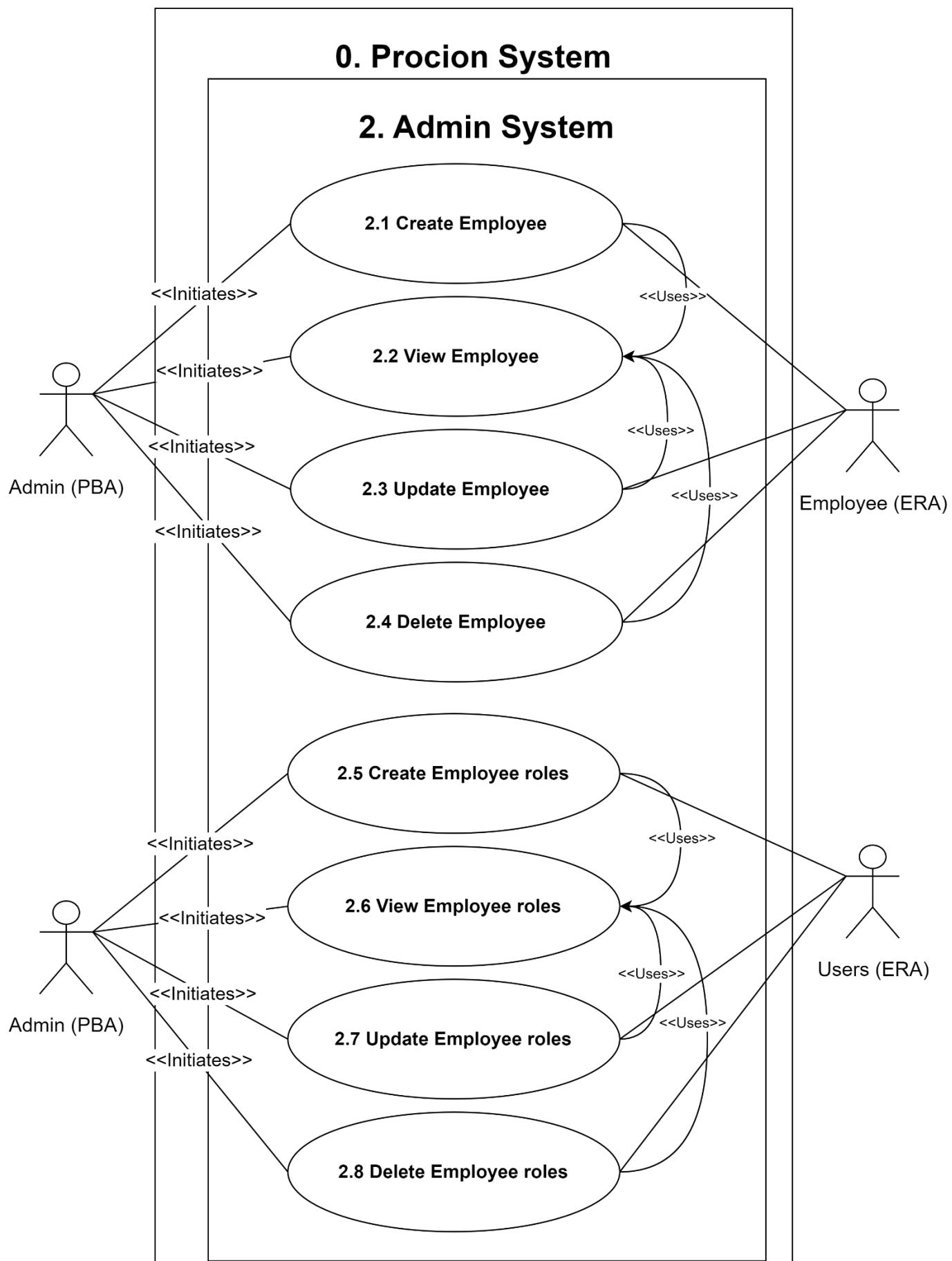


Figure 2 Use Case Diagram - Subsystem 2

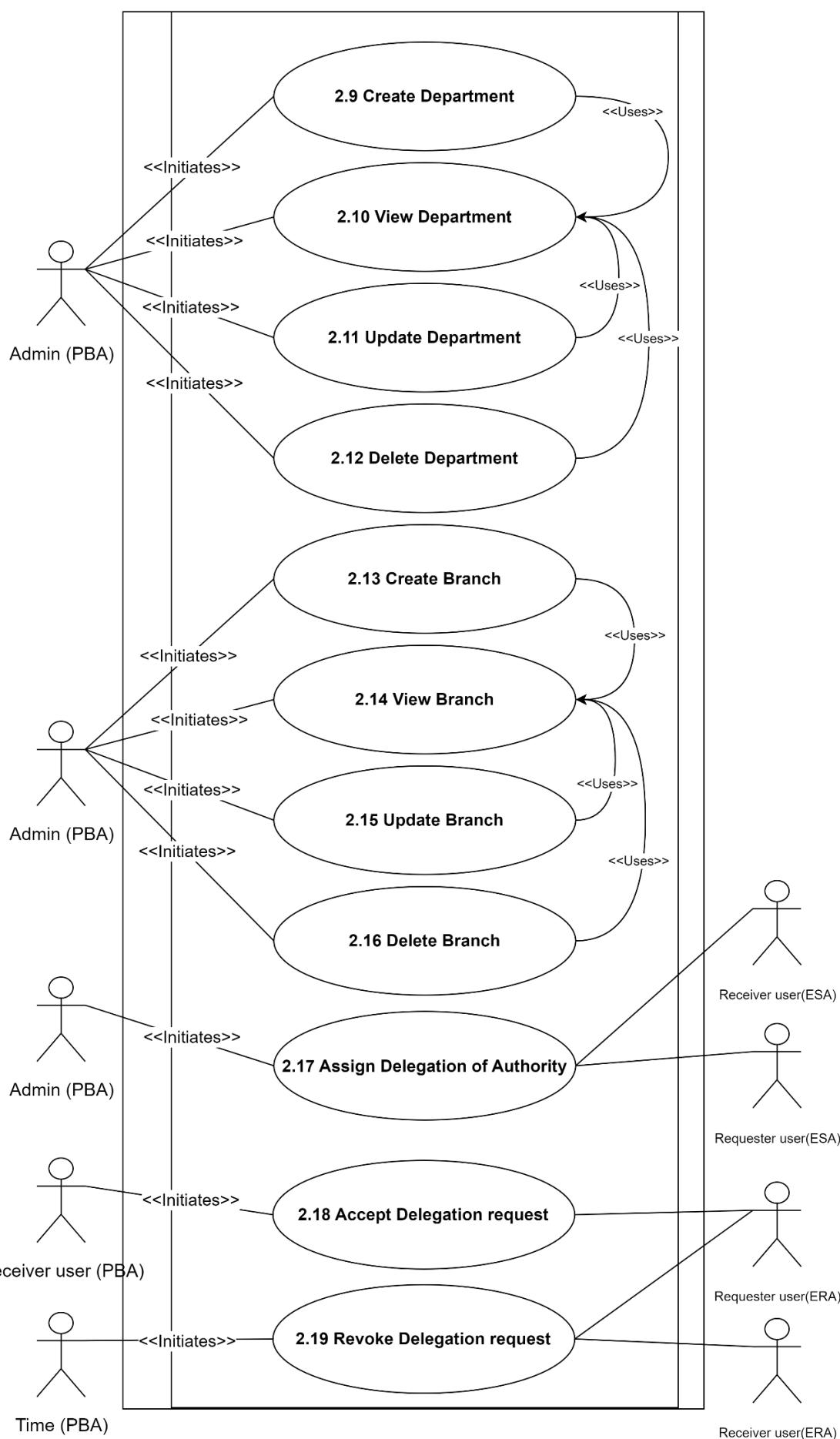


Figure 3 Use Case Diagram - Subsystem 2 Continuation 1

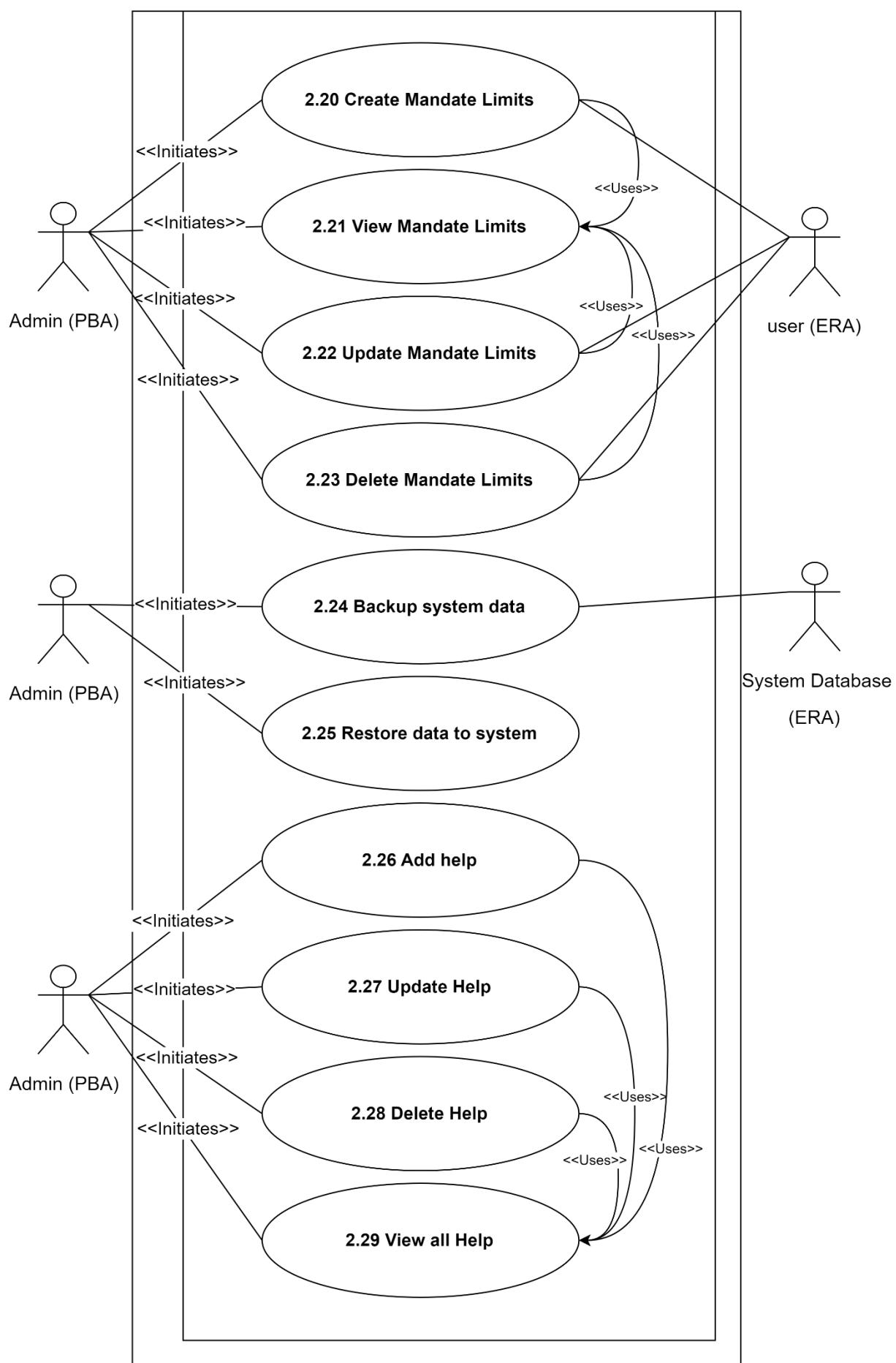


Figure 4 Use Case Diagram - Subsystem 2 Continuation 2

2.2.3 SUBSYSTEM 3 - PROCUREMENT SUBSYSTEM

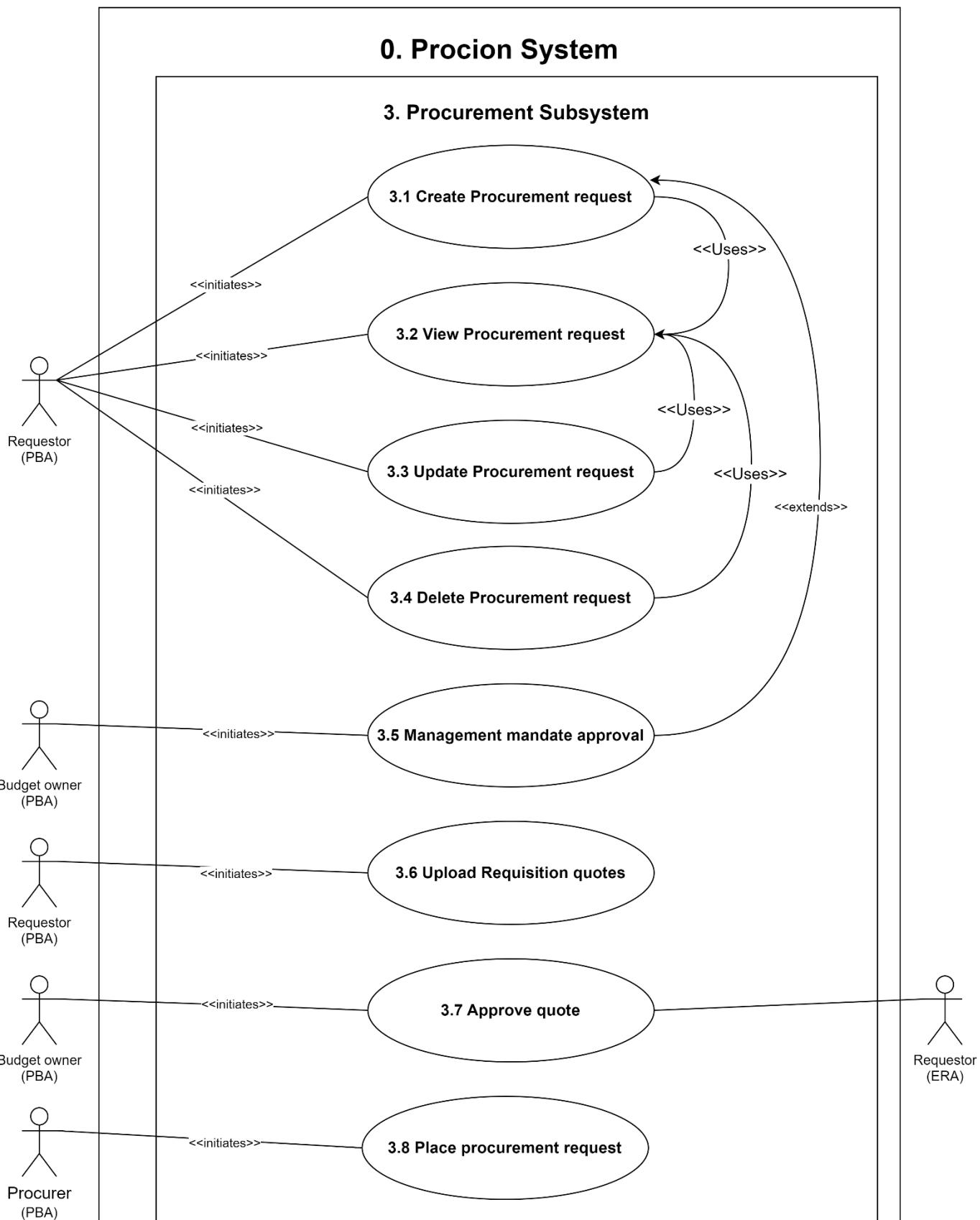


Figure 5 Use Case Diagram - Subsystem 3

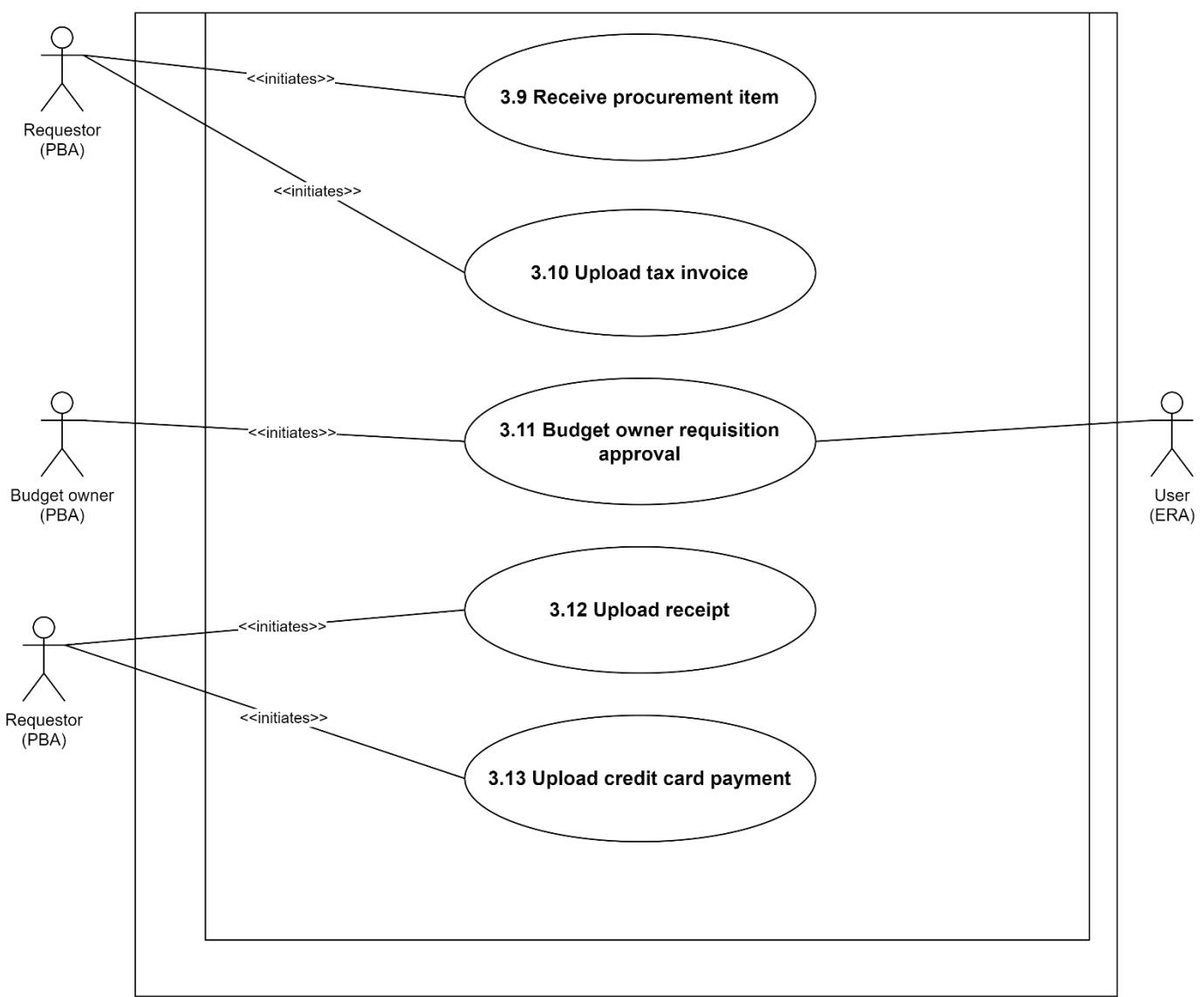


Figure 6 Use Case Diagram - Subsystem 3 Continuation

3.3.3 SUBSYSTEM 4 - FINANCE SUBSYSTEM

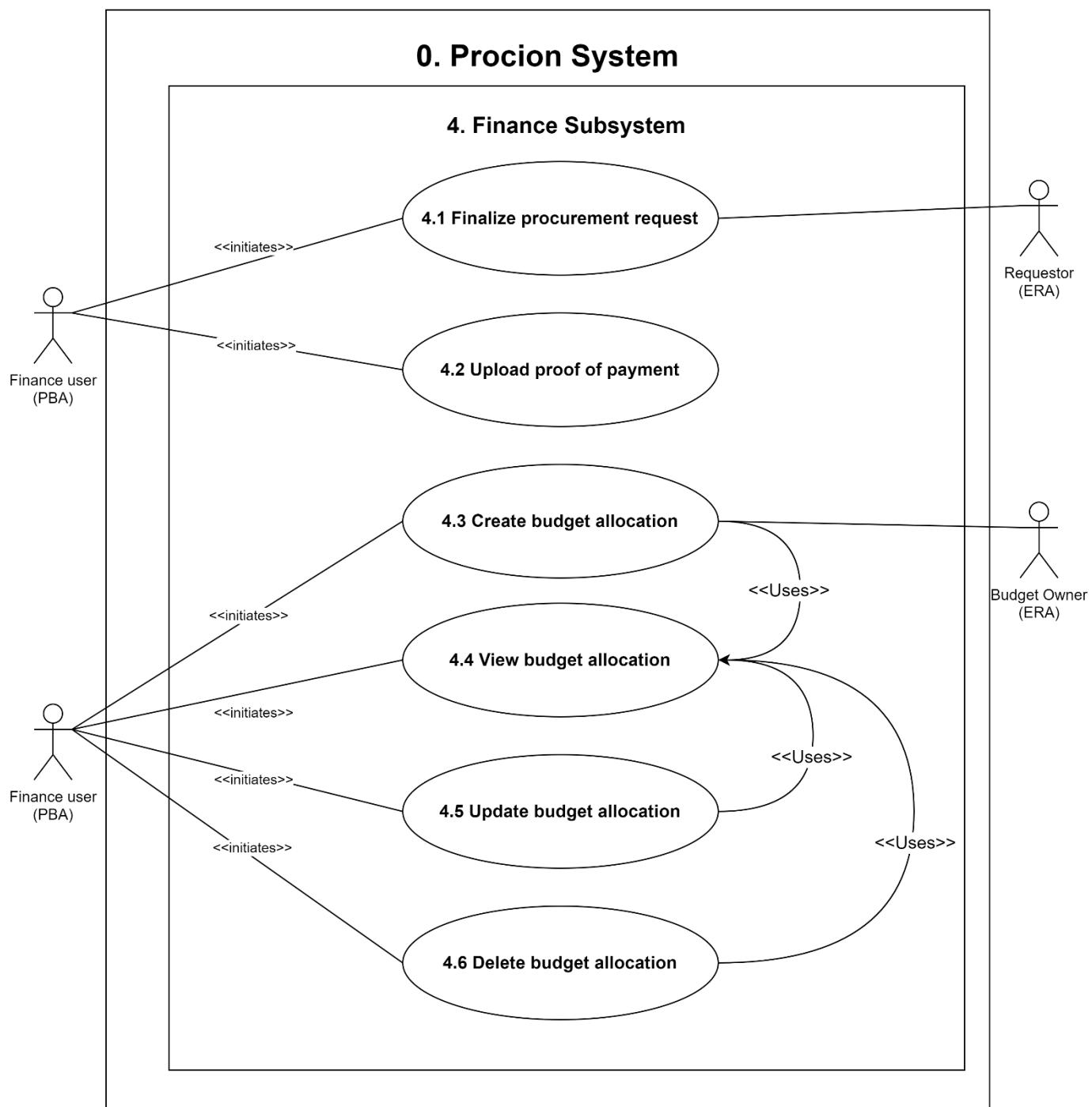


Figure 7 Use Case Diagram - Subsystem 4

3.3.4 SUBSYSTEM 5 - INVENTORY SUBSYSTEM

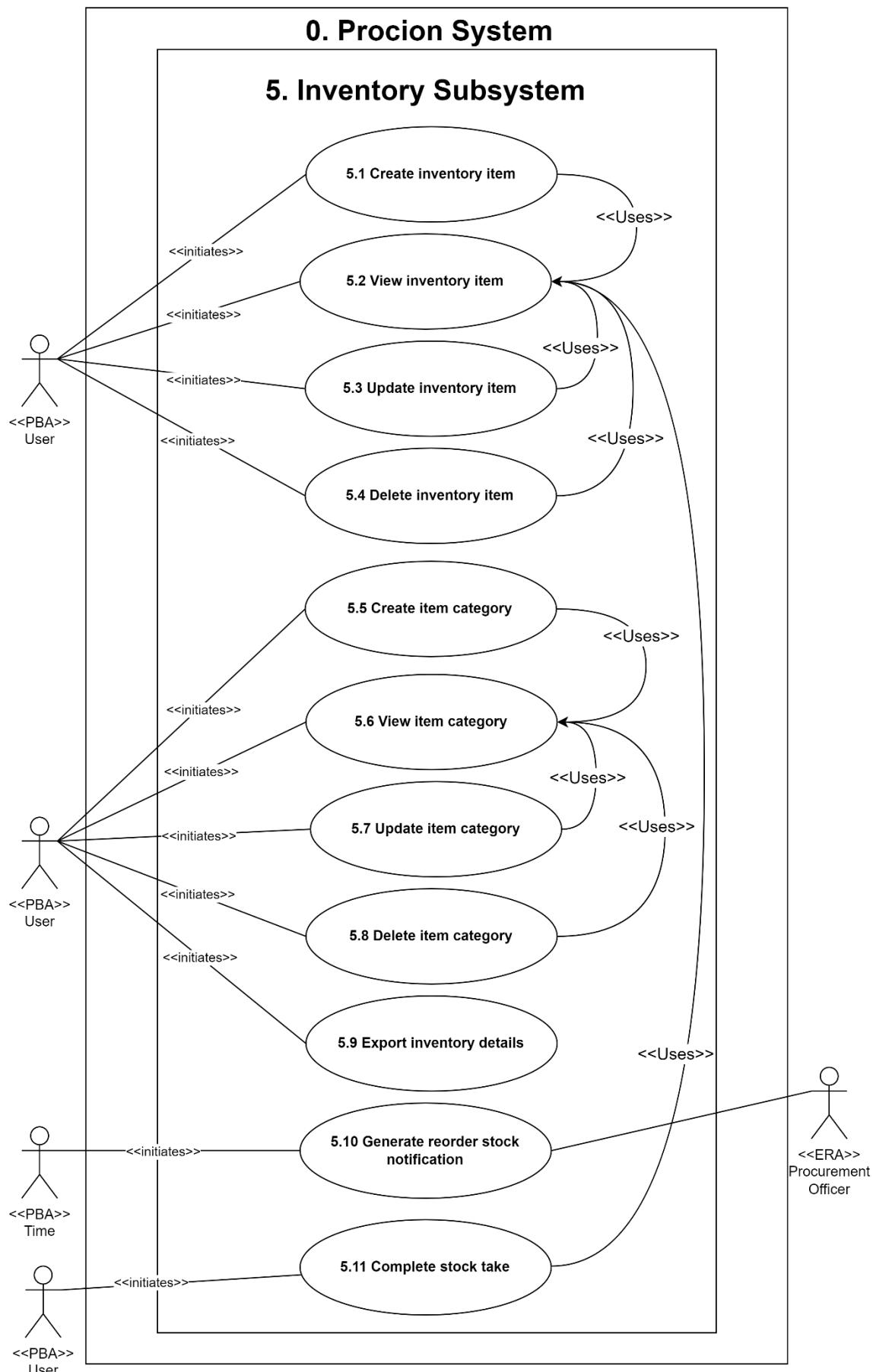


Figure 8 Use Case Diagram - Subsystem 5

3.3.5 SUBSYSTEM 6 - VENDOR SUBSYSTEM

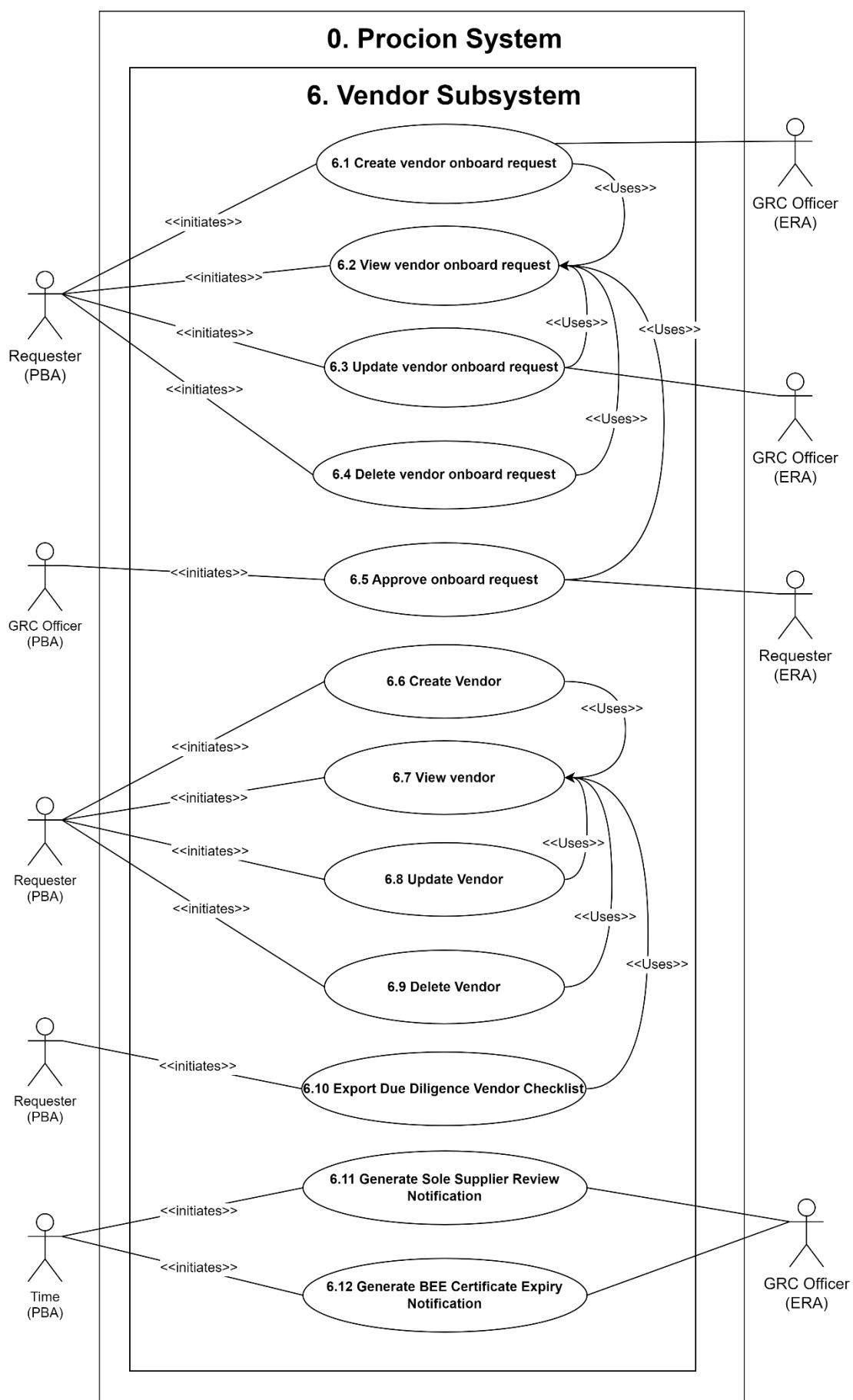


Figure 9 Use Case Diagram - Subsystem 6

3.3.6 SUBSYSTEM 7 - REPORTING SUBSYSTEM

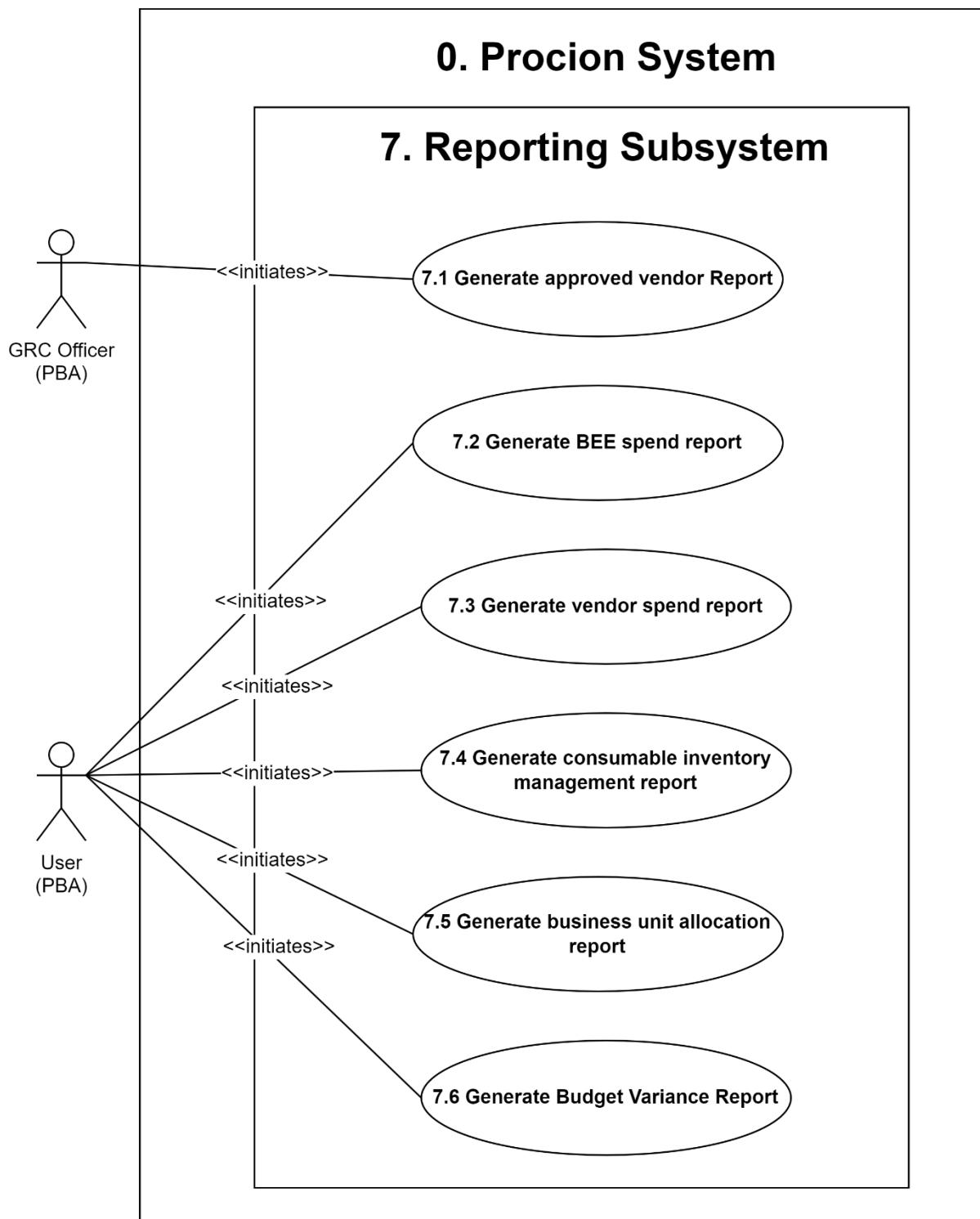


Figure 10 Use Case Diagram - Subsystem 7

3.3 CONCLUSION

This concludes the Use Case Diagrams of the Procion system. This will help give a better understanding of how the Procion system will operate.

4. ENTITY RELATIONSHIP DIAGRAM

4.1 INTRODUCTION

In this section we provide the logical entity relationship diagram (ERD) of the Procion system. This diagram provides all the entities of the system and the relationships between those entities.

4.2 ENTITY RELATIONSHIP DIAGRAM

Iteration 2: Functional Specification – Team 11

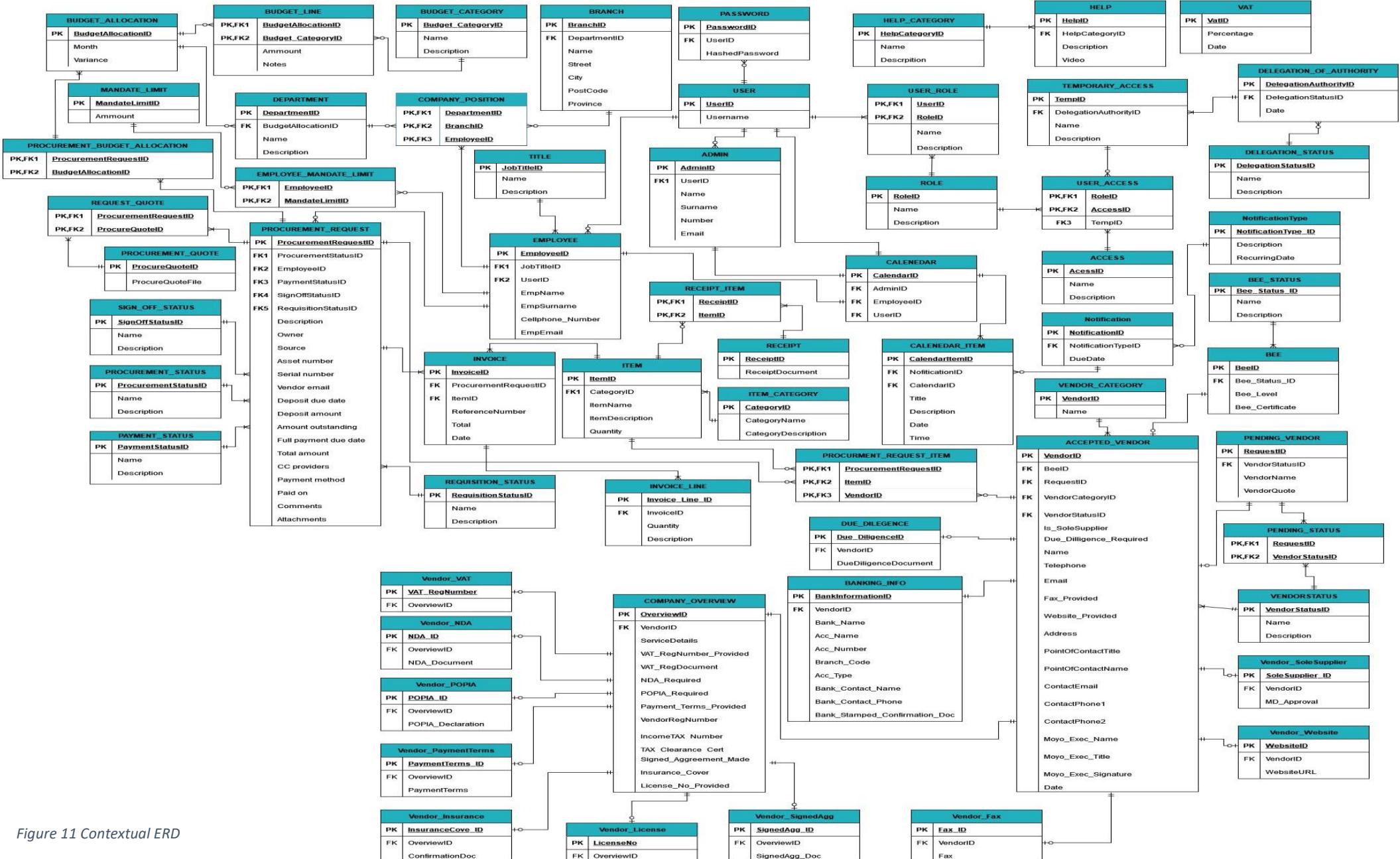


Figure 11 Contextual ERD

4.3 CONCLUSION

This concludes the entity relationship diagram with all the entity tables and relationships between the entities within the Procion system

5. CLASS DIAGRAM

5.1 INTRODUCTION

In this section we provide the logical Class Diagram of the Procion system. This helps to identify the requirement models structure of the classes, attributes, relationships and objects in our system.

5.2 LOGICAL CLASS DIAGRAMS

Iteration 2: Functional Specification – Team 11

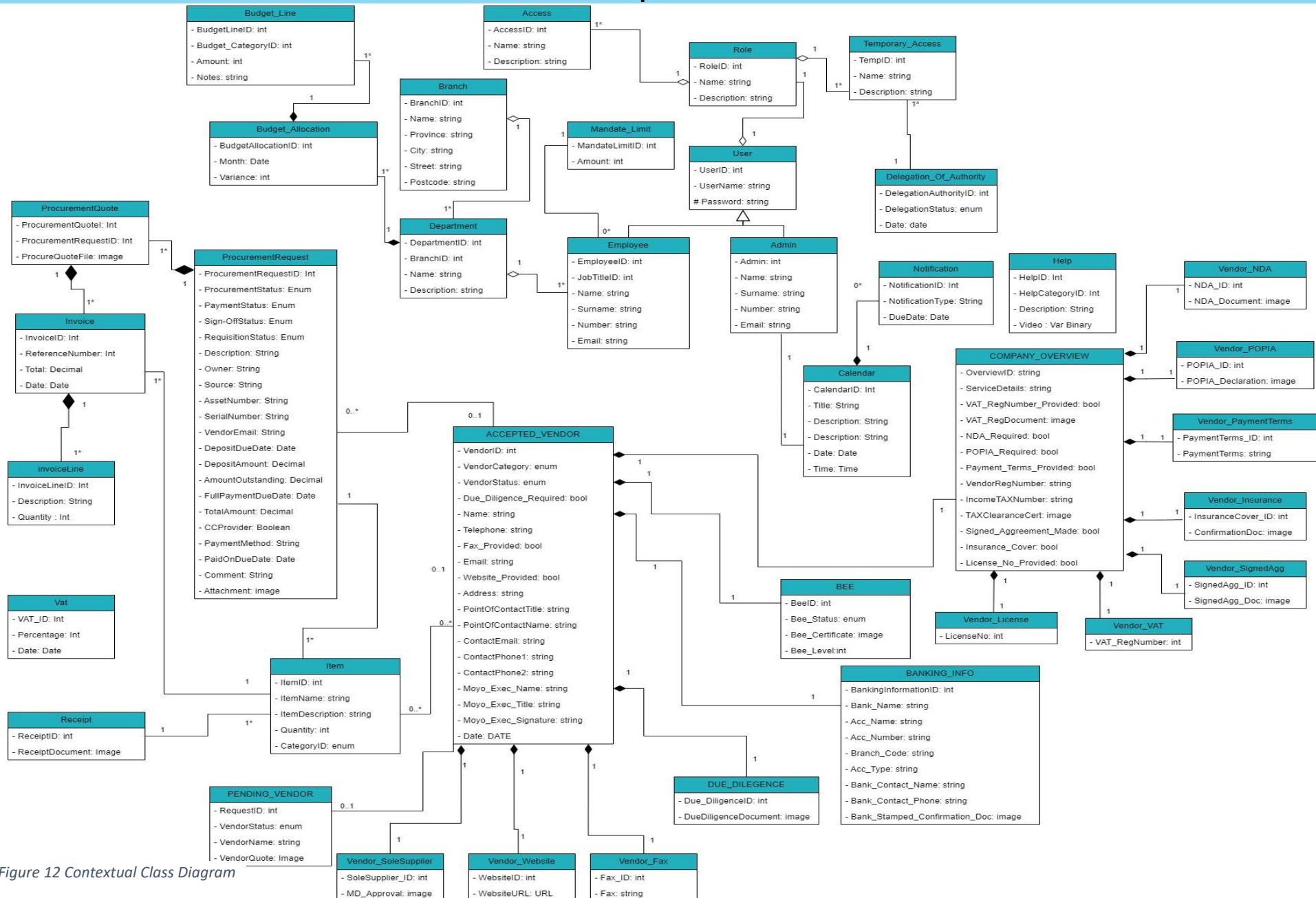


Figure 12 Contextual Class Diagram

5.3 CONCLUSION

This concludes the logical class diagram with all the requirement models structure of the class, attributes, relationships, and objects within the Procion system. This helps provide valuable insight of the system we are developing.

6. DOCUMENT CONCLUSION

This concludes the iteration 2 document regarding the functional specifications of the Procion system. This Give Valuable insight for understanding how the system would function and how the users will interact with the various function within the system as well as how we will store valuable information.

7. TEAM SIGN OFF

PROCION SYSTEM: Functional Specification

We, team 11, understand and acknowledge, have reviewed the information contained in the document (Functional Specifications), and we confirm and understand the contents and that the information provided is true.

BY SIGNING BELOW, WE AGREE TO THE FOLLOWING:

1. We understand the goals and the objectives of the project, as well as the specific tasks and responsibilities assigned to us.
2. We agree that our assigned tasks have been completed and meet the required quality standards.
3. We agree that any issues, risks, and concerns have been appropriately addressed and resolved.
4. Acknowledge that any changes or revisions to the document have been made and agreed upon by the project team.
5. That each team member has contributed equally to the iteration

Signed by:				
Name: Jason vd Merwe	Name: Leon Combrinck	Name: Bupe Chindongo	Name: Werner Schutte	Name: Emil Wonigkeit
Date: 2023-03-08	Date: 2023-03-08	Date: 2023-03-08	Date: 2023-03-08	Date: 2023-03-08
Signature: 	Signature: 	Signature: 	Signature: 	Signature: 

8. CLIENT DOCUMENT SIGN OFF

PROCISION SYSTEM: Functional Specification

Business Name: MOYO Business Advisory

I, Vunile Gumbi, Hereby confirm that I have read the document and agree that the information contained therein is complete, accurate and meets the requirements of the project.

BY SIGNING I CONFIRM THAT:

3. I have reviewed the deliverable as outlined in the project.
4. I accept the deliverable as complete and satisfactory.

Signed by:
Name: <u>Vunile Gumbi</u>
Date: <u>24/03/2023</u>
Signature 