
Software Requirements Specification

for

Workshop Management System

Version 1.0 approved

Prepared by

CB23116 AMALA KARTHIGAYAN

CB222141 NUR ALYA SYAKIRAH BINTI NASARUDIN

CB22139 VARSHINI JAGARAJAN

CB23101 NUR NABIHAH FATINY BINTI ISMAIL

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1.0 Introduction

1.1 Purpose of Document

The purpose of this Software Requirement Specification (SRS) document is to identify the functional and non-functional requirements of the Workshop Management System. The system shall be developed as a mobile application using Flutter. This SRS is concentrated on Version 1.0 of the application in order to enable workshop owners to publish temporary job slots or gigs. This enables foremen to view and choose available gigs. The system also includes account management, inventory management, schedule management, payroll management and rating management functionalities to enable workflow management in a smooth way. The document defines the scope of the overall system, both the workshop owners' and the foremen's functionality. This SRS is a foundation for development that proposes a scalable and organized solution while meeting the project goals and the users' requirements.

1.2 System Identification

The Software Requirement Specification (SRS) belongs to the Workshop Management System.

System Title	Workshop Management System											
System Abbreviation	WMS											
System Identification Number	100 (SEP-SRS-WMS 1.1.25) The system identification number shows the identification number for Workshop Management System											
System Version Number	1.0 This is initial release number for Workshop Management System											
System Release Number	1.1.25 Start with number 1 as the major release number and middle with number 1 as the minor release number that this is initial version of the system. Number 25 as the service release that shows the system released in 2025											
Document Identification ID	SRS-WMS-2025 <table border="1"> <tr> <td>SRS</td><td>Software Requirement Specification</td></tr> <tr> <td>WMS</td><td>Workshop Management System</td></tr> <tr> <td>2025</td><td>Year of document created</td></tr> </table>		SRS	Software Requirement Specification	WMS	Workshop Management System	2025	Year of document created				
SRS	Software Requirement Specification											
WMS	Workshop Management System											
2025	Year of document created											
Use Case ID	UC01-WMS-2025 <table border="1"> <tr> <td>UC</td><td>Use Case</td></tr> <tr> <td>01</td><td>Number of use case in the system</td></tr> <tr> <td>WMS</td><td>Workshop Management System</td></tr> <tr> <td>2025</td><td>Year of document created</td></tr> </table>		UC	Use Case	01	Number of use case in the system	WMS	Workshop Management System	2025	Year of document created		
UC	Use Case											
01	Number of use case in the system											
WMS	Workshop Management System											
2025	Year of document created											
Requirement ID	REQ-WMS-2025-101 <table border="1"> <tr> <td>REQ</td><td>Requirement within Use Case</td></tr> <tr> <td>WMS</td><td>Workshop Management System</td></tr> <tr> <td>2025</td><td>Year of document created</td></tr> <tr> <td>1</td><td>Use Case Number</td></tr> <tr> <td>01</td><td>Requirement Number</td></tr> </table>		REQ	Requirement within Use Case	WMS	Workshop Management System	2025	Year of document created	1	Use Case Number	01	Requirement Number
REQ	Requirement within Use Case											
WMS	Workshop Management System											
2025	Year of document created											
1	Use Case Number											
01	Requirement Number											
Traceability ID	ReqTrac-WMS-2025-101											

	ReqTrac	Requirement Traceability
	WMS	Workshop Management System
	2025	Year of document created
	1	Use Case Number
	01	Requirement Traceability Number
Sequence ID	SEQ-WMS-2025-101	
	SEQ	Sequence
	WMS	Workshop Management System
	2025	Year of document created
	1	Use Case Number
	01	Sequence Number

1.3 System Overview

The Workshop Management System is designed to simplify and improve the daily operations of vehicle repair workshops. It provides an integrated platform that allows workshop owners, foremen, and customers to interact efficiently while ensuring smooth business operations.

Workshop owners can manage essential tasks such as tracking inventory, scheduling employees, requesting spare parts from other workshops, processing payroll, and updating personal profiles. Foremen have access to a scheduling system where they can select available work slots, ensuring fair task distribution and minimizing conflicts. Customers can share their experiences through a rating and review system, providing valuable feedback that helps improve service quality.

The system consists of several key features. The profile management feature ensures that user information is always up to date for effective communication. Inventory management prevents shortages and overstocking by allowing real-time tracking of spare parts and tools. The inventory request feature enables workshop owners to obtain necessary parts from other workshops quickly, reducing downtime. The foreman scheduling module helps allocate tasks effectively, while the scheduling selection feature allows foremen to manage their work shifts efficiently. Payroll processing is automated, ensuring accurate salary calculations based on work hours, deductions, and bonuses. Lastly, the rating and review system captures customer feedback, helping workshops enhance their services and build trust with clients.

By integrating these features, the Workshop Management System enhances efficiency, reduces delays, and improves overall customer satisfaction. The platform is designed to be user-friendly and scalable, ensuring it meets the evolving needs of modern workshops.

1.4 References

- [1] IEEE 830-1998, IEEE Recommended Practice for Software Requirements Specifications, IEEE Computer Society, 1998.
- [2] IEEE 1016-2009, IEEE Standard for Information Technology—Systems Design—Software Design Descriptions, IEEE Computer Society, 2009.
- [3] IEEE 1058-1998, IEEE Standard for Software Project Management Plans, IEEE Computer Society, 1998.
- [4] IEEE 1028-1997, IEEE Standard for Software Reviews, IEEE Computer Society, 1997.
- [5] ISO/IEC/IEEE 29148:2011, Systems and Software Engineering – Life Cycle Processes – Requirements Engineering, ISO/IEC/IEEE, 2011.
- [6] “Workshop Management System – POMEN.” Accessed: Mar. 30, 2025. [Online]. Available: <https://www.pomen.io/workshop-management-system/>

2.0 Overall Description

2.1. Product Functions

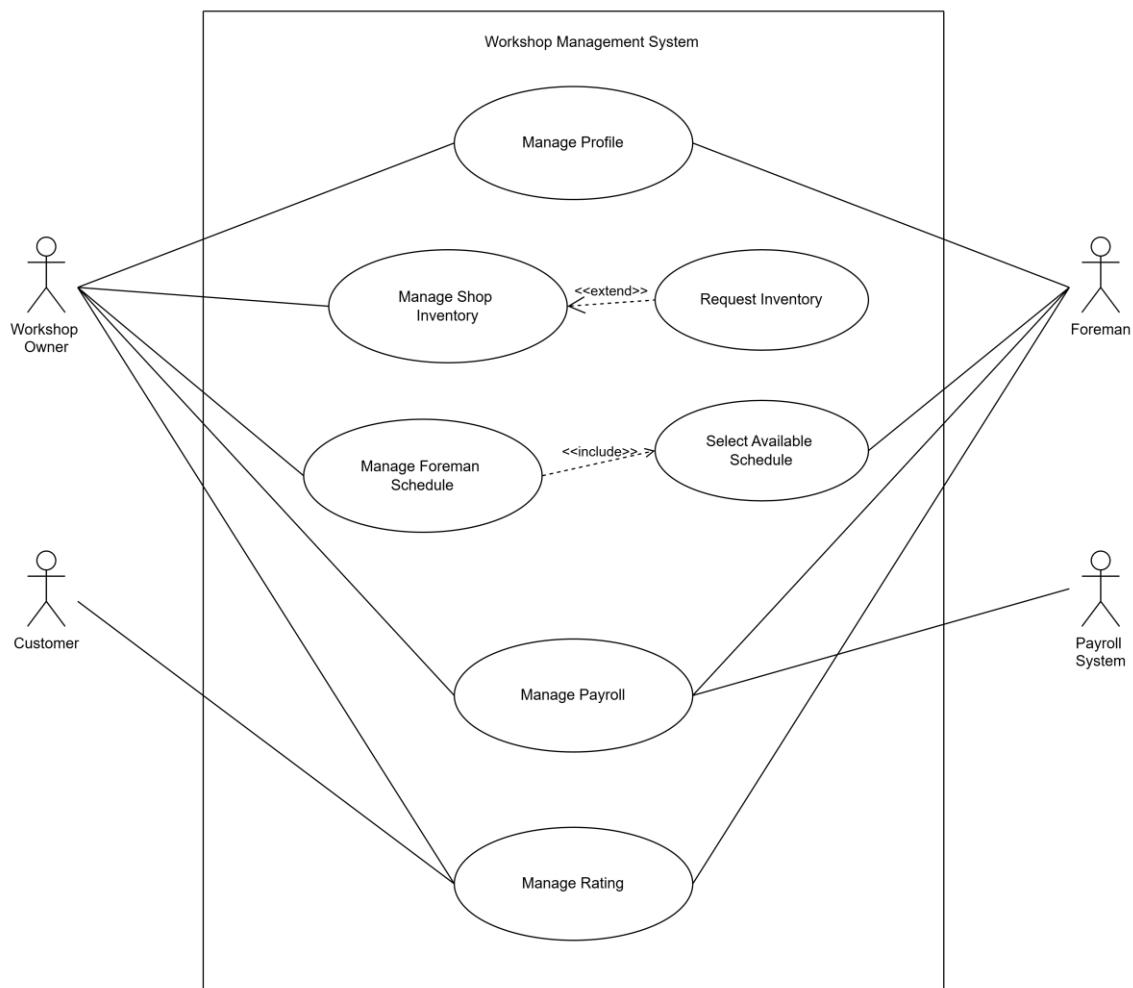


Figure 1: Use Case Diagram

Module	Description
Manage Profile	This use case allows users to manage their personal profiles. Users can update their details such as name, contact number, address, and login credentials. It ensures that the system maintains accurate user information for communication and identification purposes.
Manage Shop Inventory	This use case enables the workshop owner to manage the inventory of spare parts and tools in the system. Users can add new items, update stock levels, and remove outdated products. It ensures that the workshop has an up-to-date record of available inventory to avoid shortages or overstocking.
Request Inventory	This use case allows workshop owners to request necessary inventory items from another workshop for vehicle repairs or maintenance tasks. The system records these requests and notifies the shop manager, ensuring that the required parts are available for scheduled work. It helps streamline inventory tracking and prevents unnecessary delays.
Manage Foreman Schedule	This use case enables the workshop owner to create, update, and manage the work schedules of foremen. It ensures proper allocation of tasks and avoids conflicts in assignments. The system can notify foremen of any schedule changes or new assignments.
Select Available Schedule	Foremen can view the available work schedules and select a preferred time slot for their assigned tasks. The system verifies the availability and confirms the selected schedule, ensuring efficient workforce management and reducing scheduling conflicts.
Manage Payroll	This use case allows the workshop owner to process employee salaries. The system enables the workshop to pay salaries to

	foremen efficiently. The workshop owner can efficiently manage salary and maintain proper salary records to foremen, thereby improving operational efficiency and employee satisfaction.
Manage Rating	Customers can provide ratings and reviews based on the service they receive at the workshop. The system stores and displays these ratings, helping the workshop evaluate employee performance and improve service quality.

3.0 Detailed Requirements Description

3.1 Manage Profile (By: Nur Alya Syakirah Binti Nasarudin)

3.1.1 Use Case Diagram

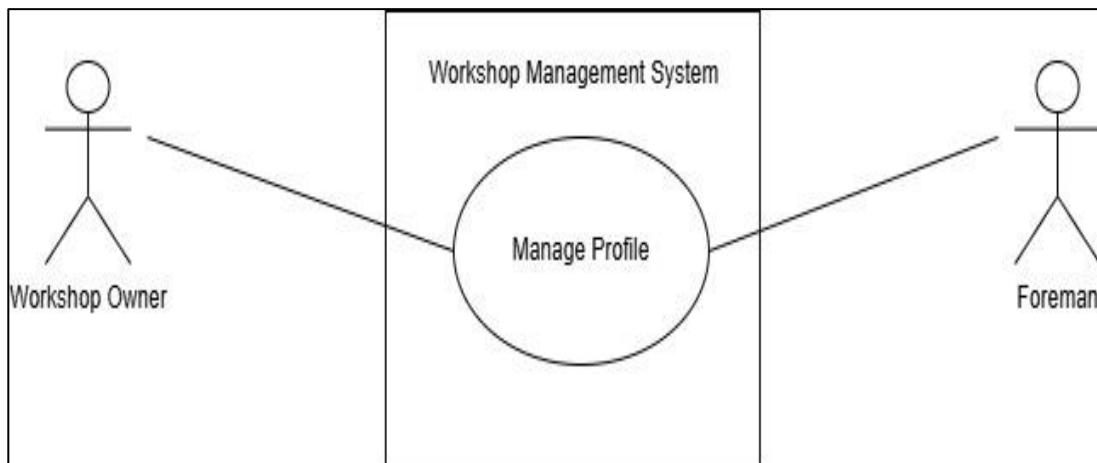


Figure 2: Use Case Diagram for Manage Profile

3.1.2 Use Case Description

Use Case ID	UC01-WMS-2025
Brief Description	This module allows Workshop Owners and Foreman to manage their profiles within the Workshop Management System. Users can update their personal information, credentials, and other relevant details. The system ensures data integrity by validating inputs before saving changes.
Actor	<ol style="list-style-type: none">1. Workshop Owner2. Foreman (Company and Personnel)
Pre-Conditions	<ol style="list-style-type: none">1. The system database should be operational and accessible.2. Users must have a valid internet connection.

Basic Flow	<p>Workshop Owner</p> <ol style="list-style-type: none"> 1. The use case begins when a new user selects the 'Register' option on the login page. 2. The system presents a registration form. [E1 : Invalid Profile Data REQ-WMS-2025-101] 3. The user fills in the required details. 4. The user clicks the 'Submit' button. 5. The system validates the information provided. 6. If valid, the system saves the user's profile to the database. 7. A success message is displayed confirming successful registration. 8. The user can now proceed to log in. 9. The user logs into the system. [E2 : Unauthorized Access REQ-WMS-2025-102] 10. The user selects the 'Manage Profile' option from the main menu. 11. The system displays the user's current profile information and blank fields that user can fill in : <ol style="list-style-type: none"> a) Name b) Contact Information c) Workshop Name d) Workshop Address e) Business License Details f) Profile Picture g) Operating Hours 12. The user clicks on the 'Edit Profile' button. [A1 : Cancel profile update REQ-WMS-2025-103] 13. The system allows the user to update profile details as needed. [A2 : Password Change REQ-WMS-2025-104] 14. The user clicks the 'Save Changes' button to update the profile. 15. The system validates the inputs and saves the changes to the database. 16. The use case ends. <p>Foreman</p> <ol style="list-style-type: none"> 1. The use case begins when a new user selects the 'Register' option on the login page. 2. The system presents a registration form. [E1 : Invalid Profile Data REQ-WMS-2025-101] 3. The user fills in the required details. 4. The user clicks the 'Submit' button.
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	<ol style="list-style-type: none"> 5. The system validates the information provided. 6. If valid, the system saves the user's profile to the database. 7. A success message is displayed confirming successful registration. 8. The user can now proceed to log in. 9. The user logs into the system. [E2 : Unauthorized Access REQ-WMS-2025-102] 10. The user selects the 'Manage Profile' option from the main menu. 11. The system displays the user's current profile information and blank fields that user can fill in : <ol style="list-style-type: none"> a) Name b) Contact Information c) Position d) Profile Picture e) Skills f) Specialization g) Experience 12. The user clicks on the 'Edit Profile' button. [A1 : Cancel profile update REQ-WMS-2025-103] 13. The system allows the user to update profile details as needed. [A2 : Password Change REQ-WMS-2025-104] 14. The user clicks the 'Save Changes' button to update the profile. 15. The system validates the inputs and saves the changes to the database. 16. The use case ends.
Alternative Flow	<p>A1 : Cancel Profile Update [REQ-WMS-2025-103]</p> <ol style="list-style-type: none"> 1. The Workshop Owner or Foreman decides not to save the changes made to their profile. 2. Instead of clicking the <<Save Changes>> button, the user clicks the <<Cancel>> button. 3. The system displays a confirmation prompt. 4. The user clicks <<Yes>> button. 5. The system discards all unsaved changes and displays the previous profile data. 6. The user remains on the Manage Profile page. <p>A2 : Password Change [REQ-WMS-2025-104]</p>

	<ol style="list-style-type: none"> 1. The Workshop Owner or Foreman selects Change Password 2. The system prompts for the current password, new password, and confirmation. 3. The user enters the details and clicks <<Submit>> button. 4. If valid, the system updates the password and confirms the change.
Exception Flow	<p>E1 : Invalid Profile Data [REQ-WMS-2025-101]</p> <ol style="list-style-type: none"> 1. The Workshop Owner or Foreman attempts to save the profile with invalid data. Example : empty required fields, invalid email format, or weak password. 2. The system detects the errors and displays appropriate error messages. 3. The system prevents saving the profile until all errors are corrected. 4. The user corrects the errors and clicks the <<Save Changes>> button again. 5. The system successfully saves the updated profile. <p>E2 : Unauthorized Access [REQ-WMS-2025-102]</p> <ol style="list-style-type: none"> 1. A user attempts to access or modify another user's profile. Example a Foreman trying to access the Workshop Owner's profile. 2. The system detects the unauthorized attempt and displays an error message 3. The user is redirected to the homepage.
Post Conditions	Profile information is successfully created or updated and saved to the database.
Rules	Only registered users (Workshop Owners and Foreman) can log in and manage profiles.
Constraints	The system requires an active internet connection for registration and profile management.

3.1.3 Sequence Diagram [SEQ-WMS-2025-101]

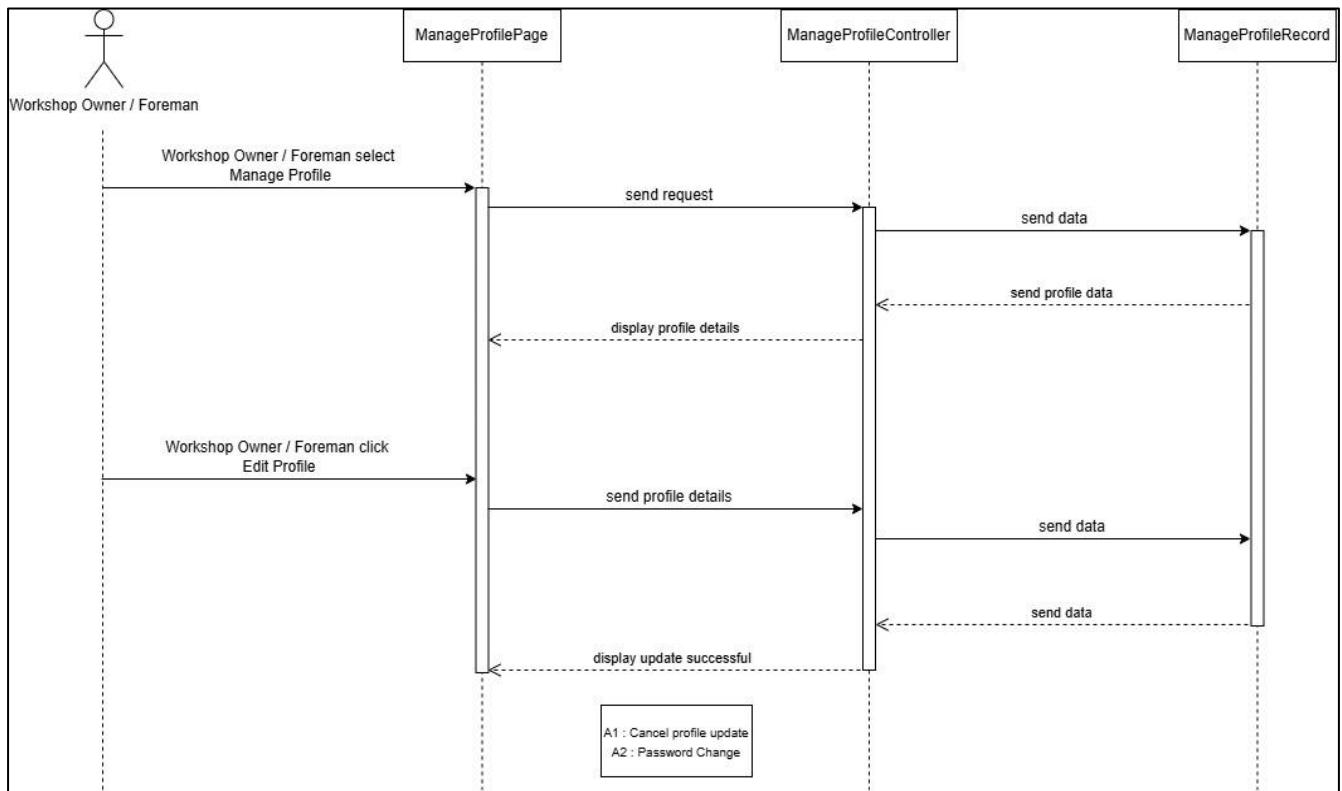


Figure 3: Basic Flow Manage Profile

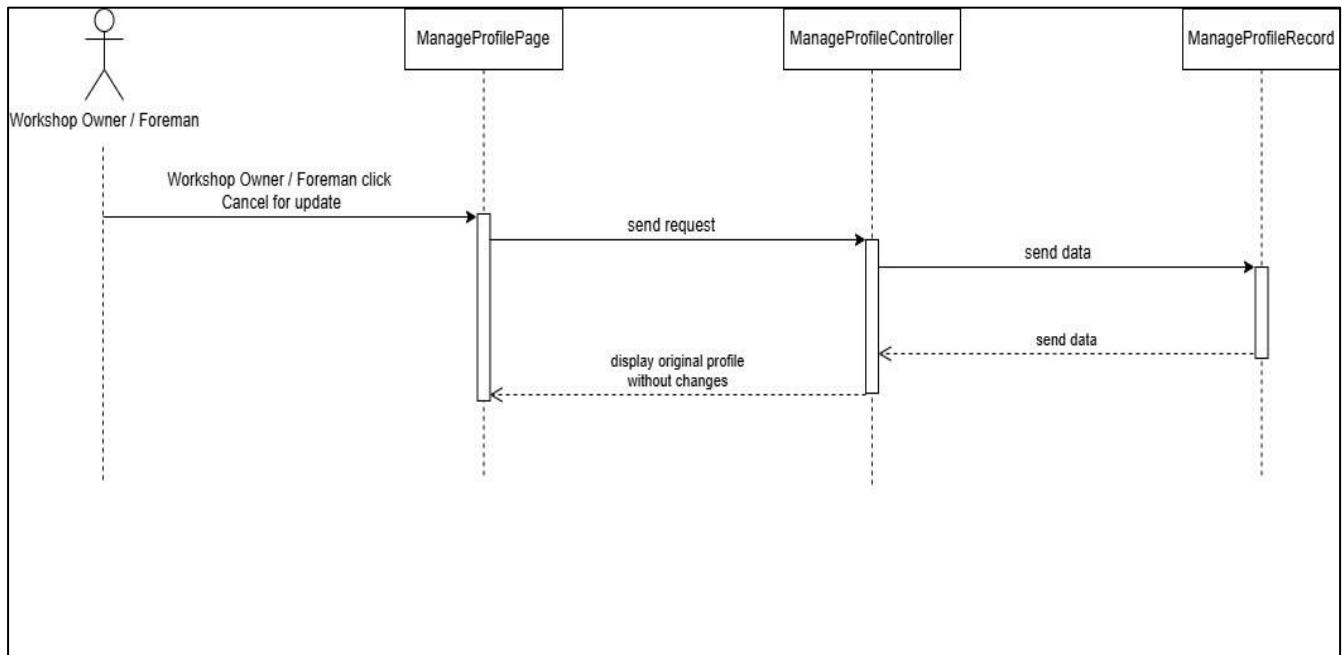


Figure 4: Alternative Flow A1 : Cancel Profile Update

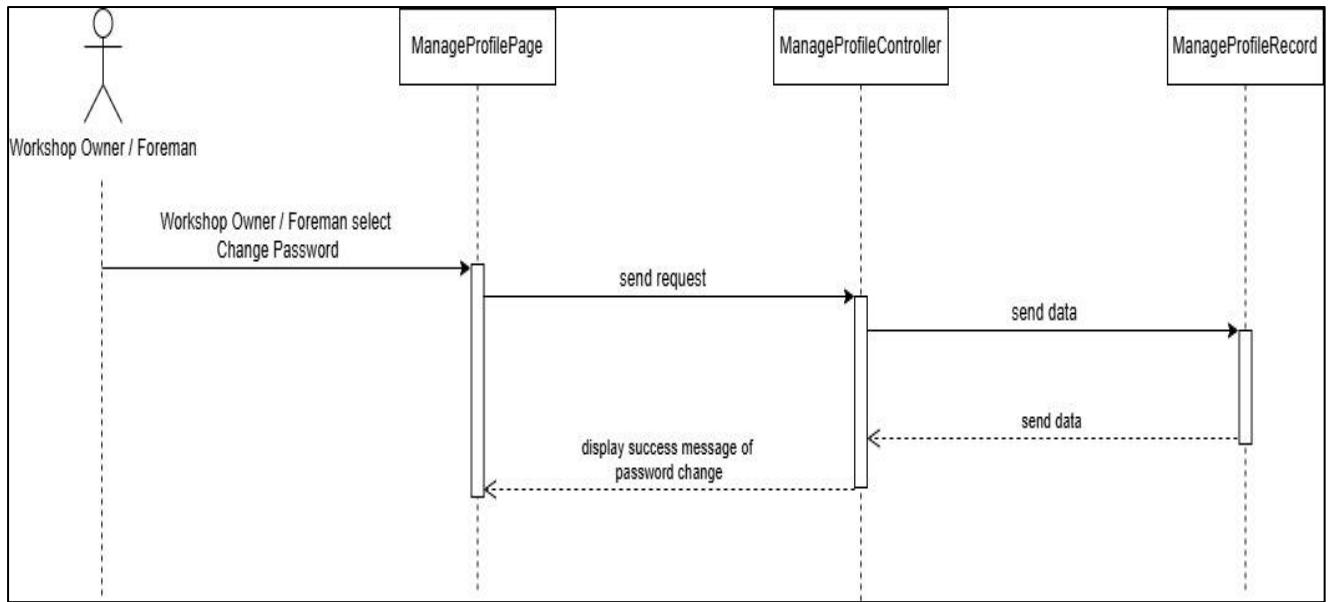


Figure 5: Alternative Flow A2 : Password Change

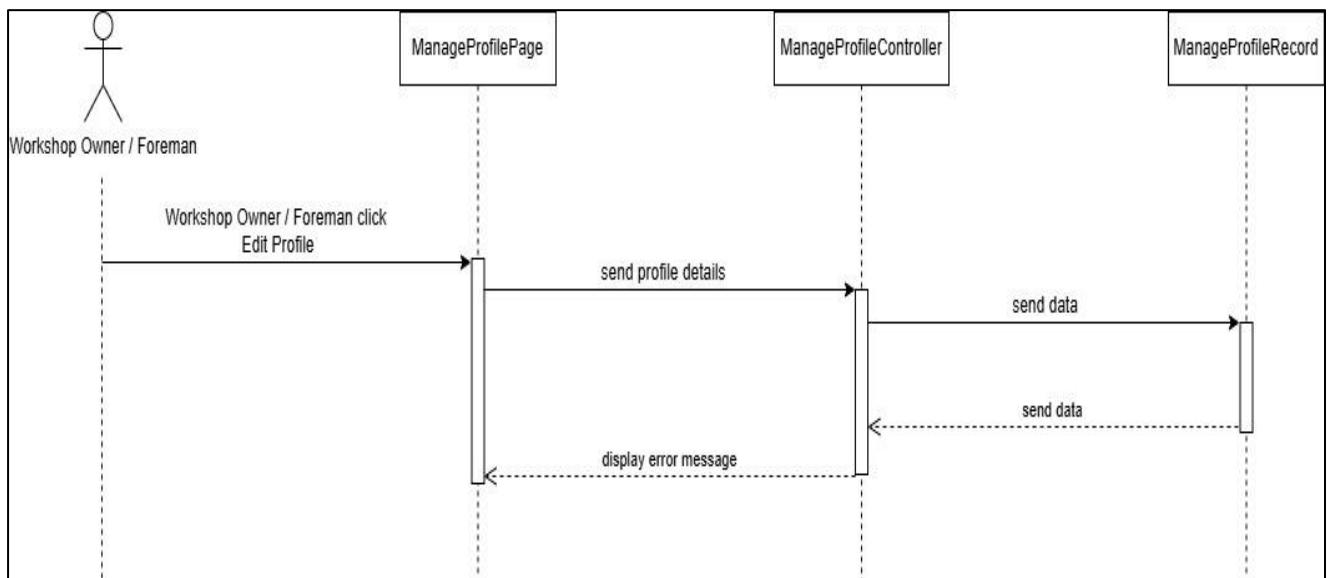


Figure 6: Exception Flow E1 : Invalid Profile Data

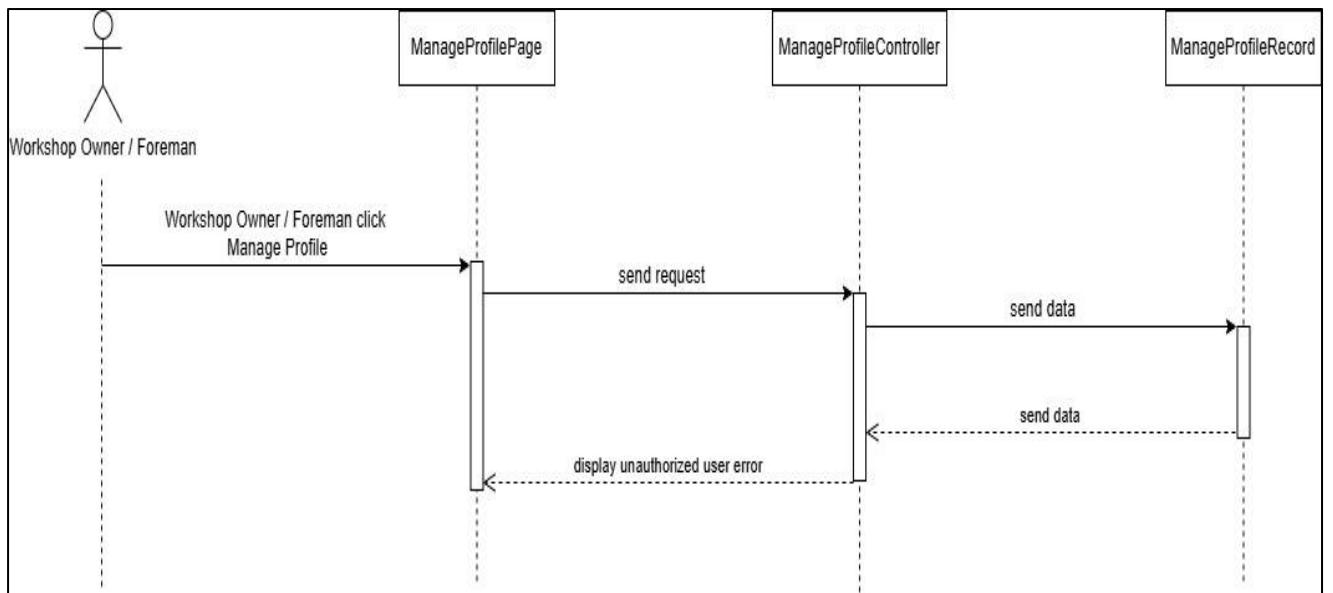


Figure 7: Exception Flow E2 : Unauthorized Access

3.1.4 User Interface

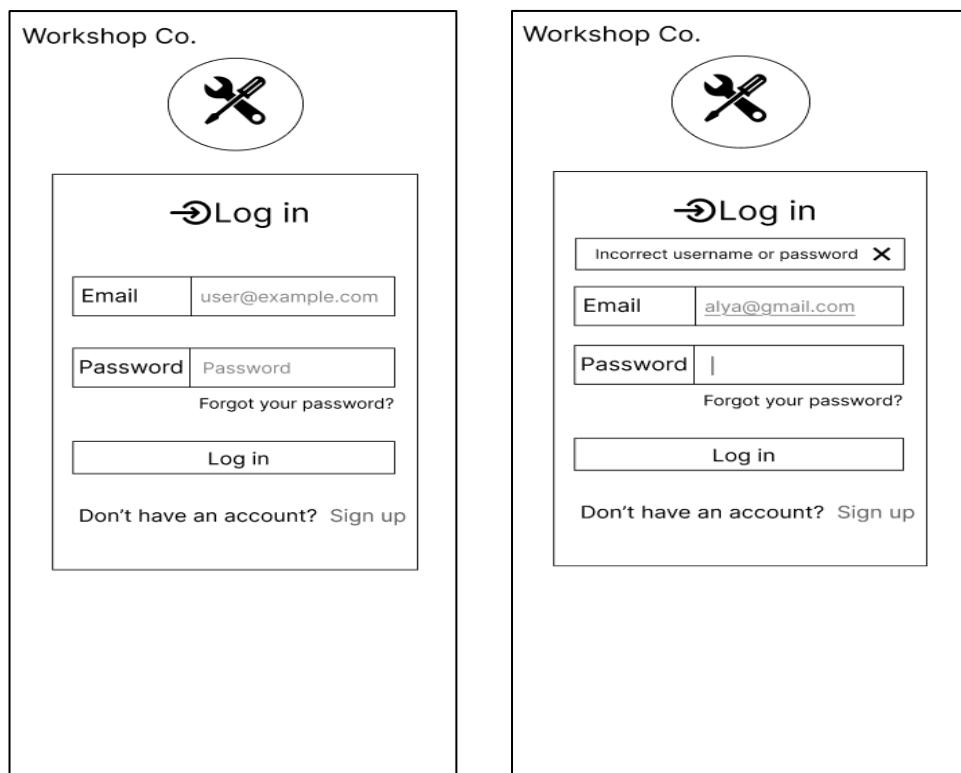


Figure 8: Log In and Unauthorized Access

Workshop Co.

Register

Name	Name
Email	user@example.com
Phone Number	Phone Number
Password	Password
Retype Password	Password
Role	Select your role ▾
Register	

Already registered? Log in

This figure shows a registration form titled 'Register'. It contains fields for Name, Email, Phone Number, Password, Retype Password, Role (with a dropdown menu), and a 'Register' button. Below the form is a link to 'Log in'.

Figure 9: Register

Workshop Co.

Forgot your password?
Enter your email address

Email address
Request password reset

Back to Log in

Workshop Co.

Forgot your password?
Enter your email address



Password Changed!
Your password has
been changed
successfully

This figure displays two side-by-side screens for password management. The left screen shows a 'Forgot your password?' message with an input field for 'Email address' and a 'Request password reset' button. The right screen shows a success message: 'Password Changed!', 'Your password has been changed successfully', accompanied by a checkmark icon.

Figure 10: Forgot Password & Password Change

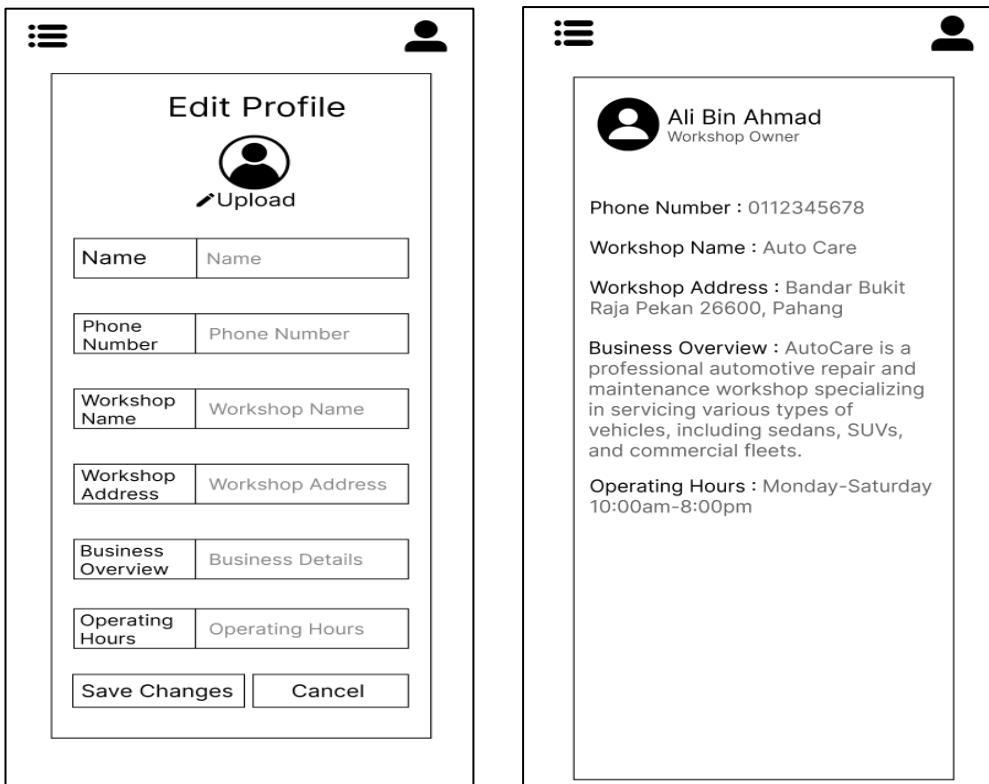


Figure 11: Edit Profile Workshop Owner

Figure 12: Cancel Profile Update & Invalid Profile Data : Workshop Owner

Figure 13: Edit Profile Foreman

The figure consists of two side-by-side wireframe mobile application screens. Both screens have a header with a menu icon and a user profile icon. The title "Edit Profile" is at the top, followed by a placeholder for a profile picture with an "Upload" button.

Left Screen (Cancel Confirmation):

- Fields: Name (Name), Phone Number (Phone Number).
- A modal dialog box contains the message "Are you sure want to cancel ?" with "Yes" and "No" buttons.
- Fields: Specialization (Specialization), Experience (Experience).
- Buttons: Save Changes, Cancel.

Right Screen (Invalid Data):

- Fields: Name (Malik Bin Abu), Phone Number (0198765432), Position (Chief Foreman).
- Fields: Skills (Skills) - has a validation message "Please fill out this field.", Specialization (Electrical Diagnostics & Transmission Repair).
- Fields: Experience (8 years in Automotive Repair & Maintenance).
- Buttons: Save Changes, Cancel.

Figure 14: Cancel Profile Update & Invalid
Profile Data : Foreman

3.2 Manage Shop Inventory (*extends*: Request Inventory) [By: Varshini Jagarajan]

3.2.1 Use Case Diagram

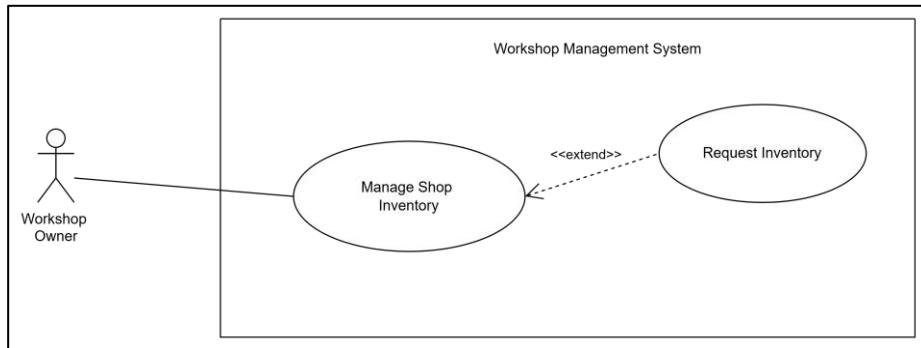


Figure 15: Use case diagram for Manage Shop Inventory

3.2.2. Use Case Description

- **Manage Shop Inventory**

Use Case ID	UC02-WMS-2025
Brief Description	This use case is initiated by the Workshop Owner to manage the shop's inventory. It includes adding new stock items, updating existing inventory, and removing items when necessary. This use case extends Request Inventory, allowing the Workshop Owner to request additional stock when inventory levels are low.
Actor	Workshop Owner
Pre-Conditions	3.1 The Workshop Owner is logged into the system. 4.1 The Workshop Owner has the necessary permissions to manage inventory.
Basic Flow	3.1 The use case begins when the Workshop Owner navigates to the Inventory Management section. 4.1 The system displays the current inventory list. 5.1 The Workshop Owner is able to: a. Add a new inventory item [Add Item REQ-WMS-2025-201] 1. The Workshop Owner inputs the item details, including name, quantity, and category.

- | | |
|--|---|
| | <p>2. If all required information is complete, the Workshop Owner clicks the <ADD> button. [A1: Incomplete Information REQ-WMS-2025-202]</p> <p>3. The use case continues to step 4.</p>
<p>b. Update stock quantity or item details [Update Item REQ-WMS-2025-203]</p> <ol style="list-style-type: none"> 1. The Workshop Owner selects an existing inventory item. 2. The Workshop Owner updates the stock quantity or item details. 3. If the updated information is complete, the Workshop Owner clicks the <UPDATE> button. [A1: Incomplete Information REQ-WMS-2025-202] 4. The use case continues to step 4.
<p>c. Remove an inventory item [Remove Item REQ-WMS-2025-204]</p> <ol style="list-style-type: none"> 1. The Workshop Owner selects the item to be removed. 2. The Workshop Owner clicks the <DELETE> button. [E1: Cancel Operation REQ-WMS-2025-205] 3. The use case continues to step 4.
<p>d. Monitor low stock levels [Low Stock Alert REQ-WMS-2025-206]</p> <ol style="list-style-type: none"> 1. The system checks inventory levels and detects low stock. 2. The system displays a Low Stock Alert and suggests requesting new stock. |
|--|---|

	<p>3. The Workshop Owner initiates the Request Inventory process. [A2: Low Stock Detected REQ-WMS-2025-207]</p> <p>4. The use case continues to step 4.</p> <p>4. The Workshop Owner clicks the <SAVE> button.</p> <p>5. The system validates and updates the inventory records.</p> <p>6. A confirmation message is displayed to the Workshop Owner. [E2: System Error REQ-WMS-2025-208]</p> <p>7. The use case ends.</p>
Alternative Flow	<p>A1: Incomplete Information [REQ-WMS-2025-202]</p> <p>1. If the Workshop Owner attempts to add or update an inventory item with missing required fields, the system displays an error message.</p> <p>2. The Workshop Owner provides the missing information.</p> <p>3. The Workshop Owner clicks the <ADD> or <UPDATE> button again.</p> <p>4. The system validates and updates the inventory records.</p> <p>5. A confirmation message is displayed.</p> <p>6. The use case continues to step 3 in basic flow.</p> <p>A2: Low Stock Detected [REQ-WMS-2025-207]</p> <p>1. The system automatically detects that an item has reached the low stock threshold.</p> <p>2. The system suggests initiating a Request Inventory process.</p> <p>3. The Workshop Owner follows the Request Inventory use case.</p> <p>4. The system updates the inventory records.</p> <p>5. A confirmation message is displayed.</p> <p>6. The use case continues to step 3 in basic flow.</p>

Exception Flow	<p>E1: Cancel Operation [REQ-WMS-2025-205]</p> <ol style="list-style-type: none"> 1. The Workshop Owner selects an item for deletion. 2. The system prompts the Workshop Owner for confirmation. 3. The Workshop Owner chooses Cancel, and the deletion process is aborted. 4. The system returns to the inventory list. 5. The use case continues to step 3 in basic flow. <p>E2: System Error [REQ-WMS-2025-208]</p> <ol style="list-style-type: none"> 1. If the system encounters an unexpected error while saving, updating, or deleting inventory records, an error message is displayed. 2. The Workshop Owner is prompted to retry or report the issue. 3. The system logs the error for further investigation. 4. The Workshop Owner can attempt the operation again or exit the Inventory Management section. 5. The use case ends.
Post Conditions	<ol style="list-style-type: none"> 1. The inventory is successfully updated. 2. Low stock items trigger a request inventory process.
Rules	<ol style="list-style-type: none"> 1. Only the Workshop Owner can manage inventory. 2. Inventory quantities must be positive integers. 3. Deleted items cannot be restored.
Constraints	—

- **Request Inventory**

Use Case ID	UC03-WMS-2025
Brief Description	This use case is initiated by the Workshop Owner to request inventory when stock levels are low. The Workshop Owner selects the required items, specifies the quantity, and submits the request to another supplier or workshop. The system tracks the request status until fulfilment.
Actor	Workshop Owner
Pre-Conditions	<ol style="list-style-type: none"> 1. The Workshop Owner is logged into the system. 2. There is an item with low stock in the inventory. 3. The system or the Workshop Owner has identified the need for additional stock.
Basic Flow	<ol style="list-style-type: none"> 1. The use case begins when the Workshop Owner navigates to the Request Inventory section. 2. The system displays a list of items that are low in stock. 3. The Workshop Owner selects one or more items for restocking. 4. The Workshop Owner specifies the quantity for each selected item. [A1: Incomplete Request REQ-WMS-2025-301] 5. The Workshop Owner selects the supplier or another workshop from which to request inventory. [E1: Supplier Unavailable REQ-WMS-2025-302] 6. The Workshop Owner clicks the <SUBMIT REQUEST> button. 7. The system validates and submits the inventory request. 8. A confirmation message is displayed to the Workshop Owner. [E2: System Error REQ-WMS-2025-303] 9. The use case ends.
Alternative Flow	A1: Incomplete Request [REQ-WMS-2025-301]

	<ol style="list-style-type: none"> 1. If the Workshop Owner does not specify required details (e.g., quantity or supplier), the system prompts them to complete the information. 2. The Workshop Owner provides the missing details. 3. The Workshop Owner clicks the <SUBMIT REQUEST> button again. 4. The system validates and submits the request. 5. A confirmation message is displayed. 6. The use case continues to step 5 in basic flow.
Exception Flow	<p>E1: Supplier Unavailable [REQ-WMS-2025-302]</p> <ol style="list-style-type: none"> 1. If the selected supplier or workshop is unavailable, the system notifies the Workshop Owner. 2. The Workshop Owner selects an alternative supplier. 3. The Workshop Owner clicks <SUBMIT REQUEST> again. 4. The system validates and submits the request. 5. The use case continues to step 6 in basic flow. <p>E2: System Error [REQ-WMS-2025-303]</p> <ol style="list-style-type: none"> 1. If a system error occurs while processing the request, an error message is displayed. 2. The Workshop Owner is prompted to retry later. 3. The system logs the error for further investigation. 4. The use case ends.
Post Conditions	The inventory request is successfully submitted.
Rules	<ol style="list-style-type: none"> 1. Only the Workshop Owner can submit an inventory request. 2. The requested quantity must be greater than zero.
Constraints	The system only allows inventory requests from registered suppliers or workshops within the designated marketplace area.

3.2.3. Sequence Diagram [SEQ-WMS-2025-201 & SEQ-WMS-2025-301]

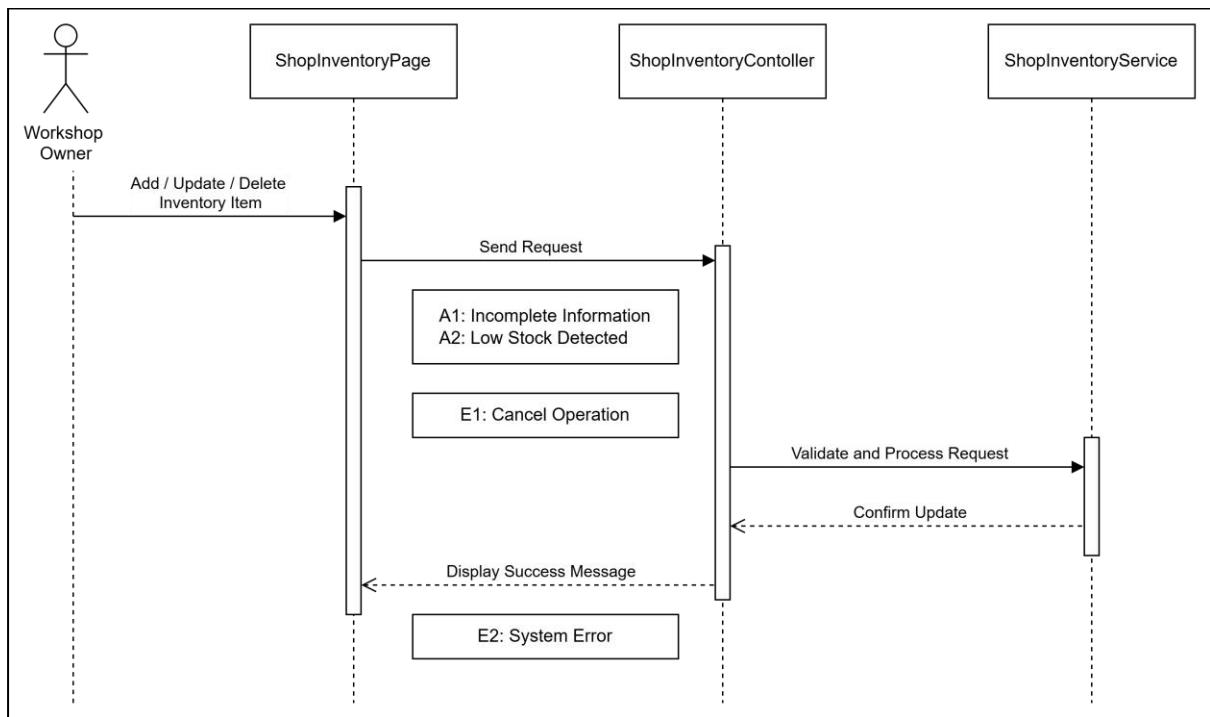


Figure 16: Basic Flow for Manage Shop Inventory

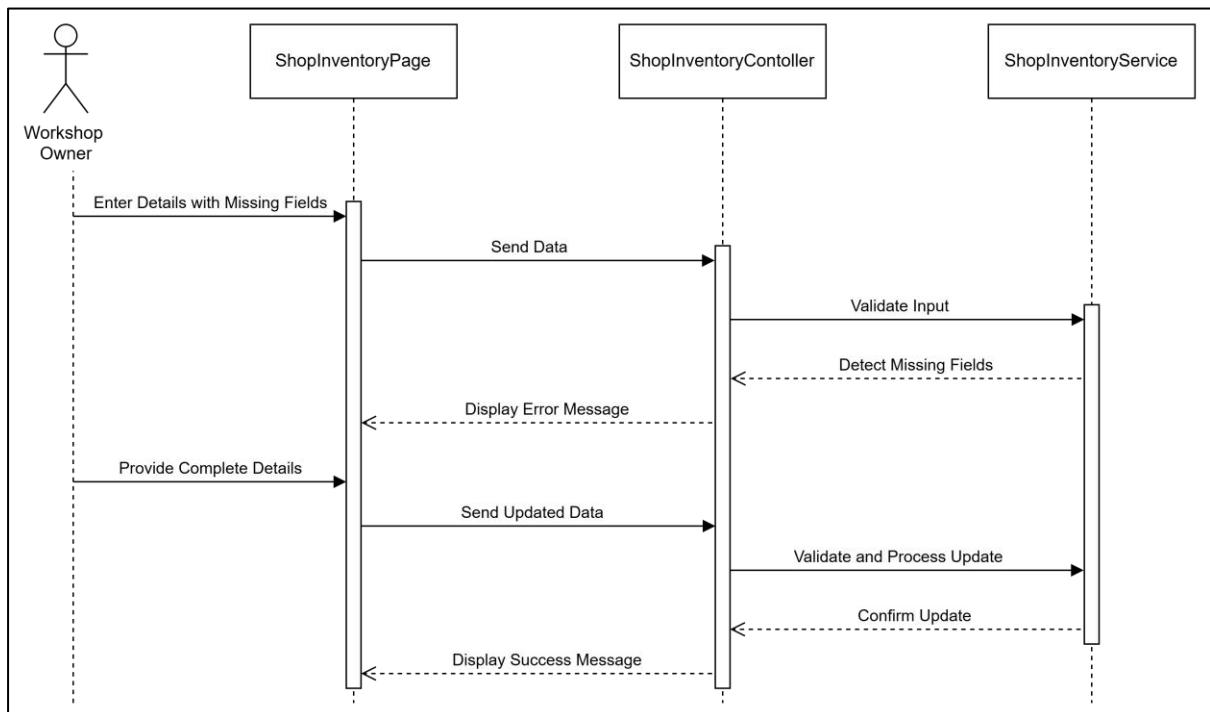


Figure 17: Alternative Flow 1: Incomplete Information

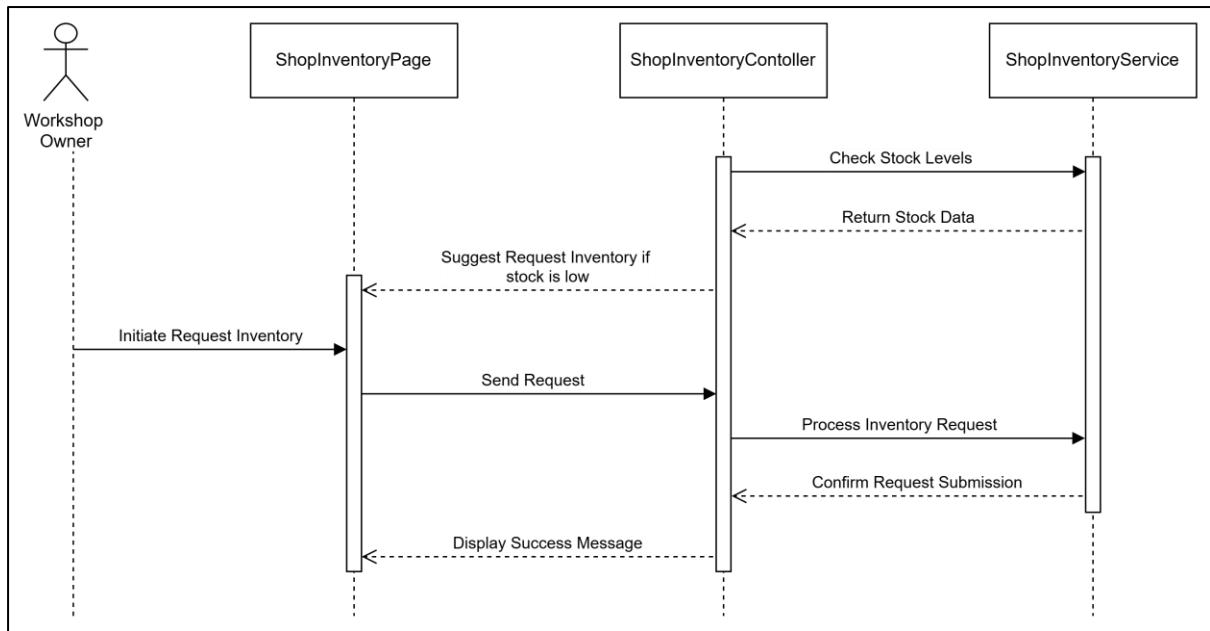


Figure 18: Alternative Flow 2: Low Stock Detected

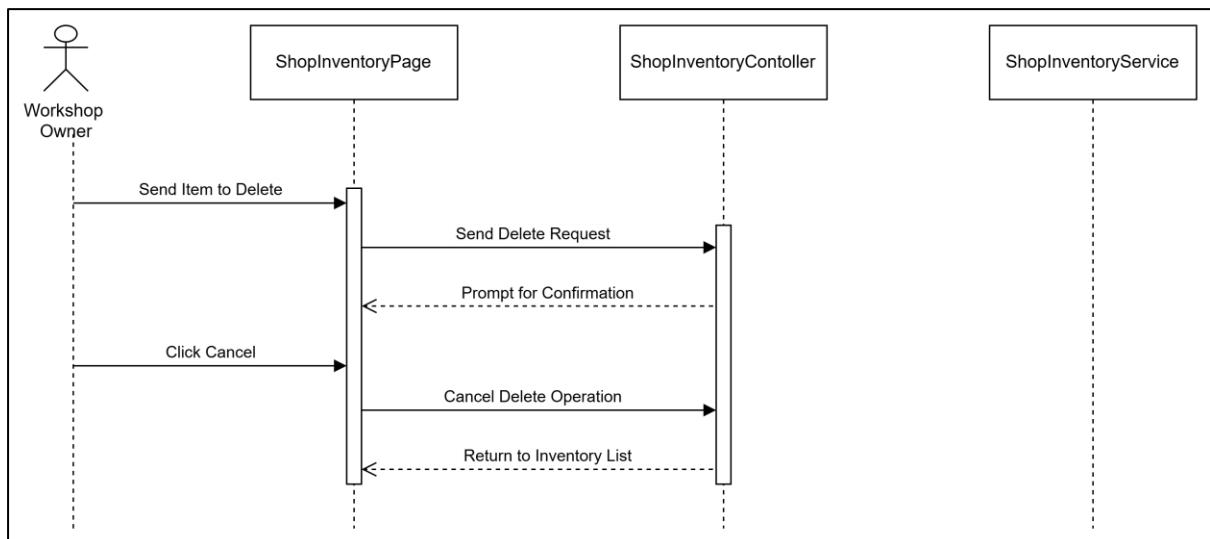


Figure 19: Exception Flow 1: Cancel Operation

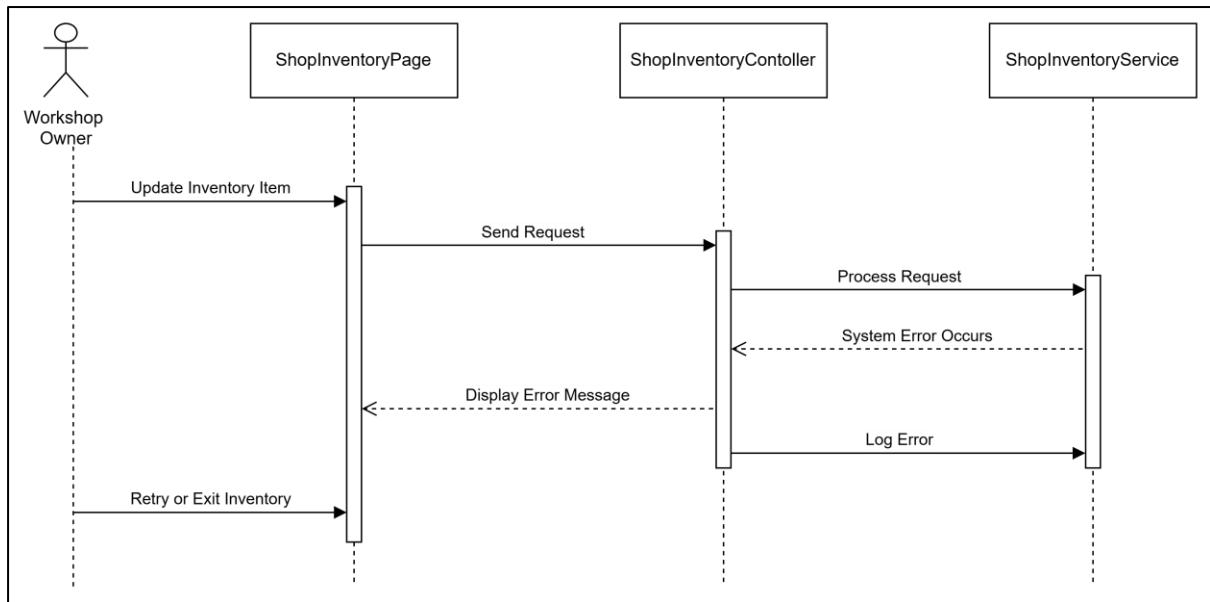


Figure 20: Exception Flow 2: System Error

Sequence Diagram for *extends*: Request Inventory

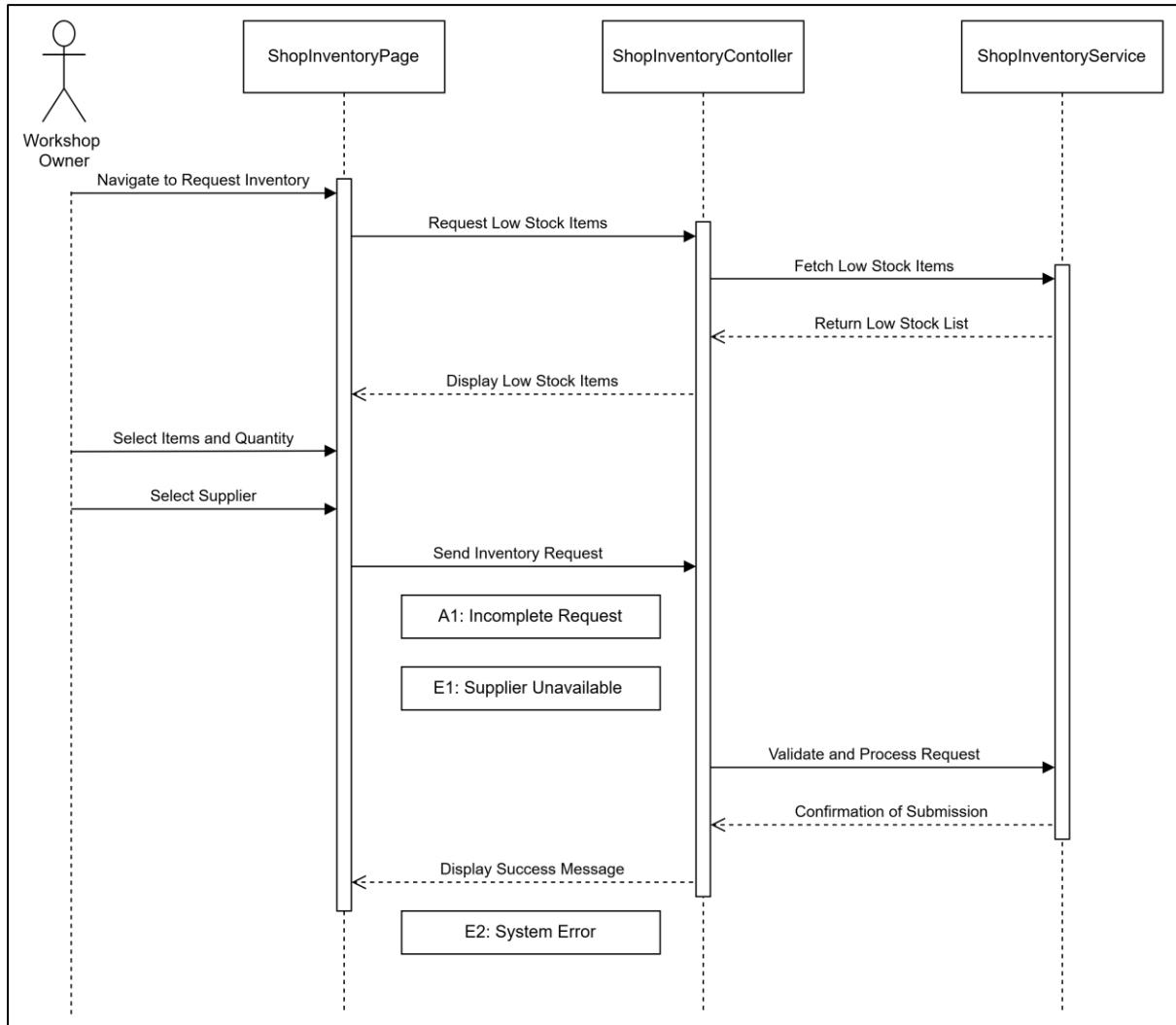


Figure 21: Basic Flow for *extends*: Request Inventory

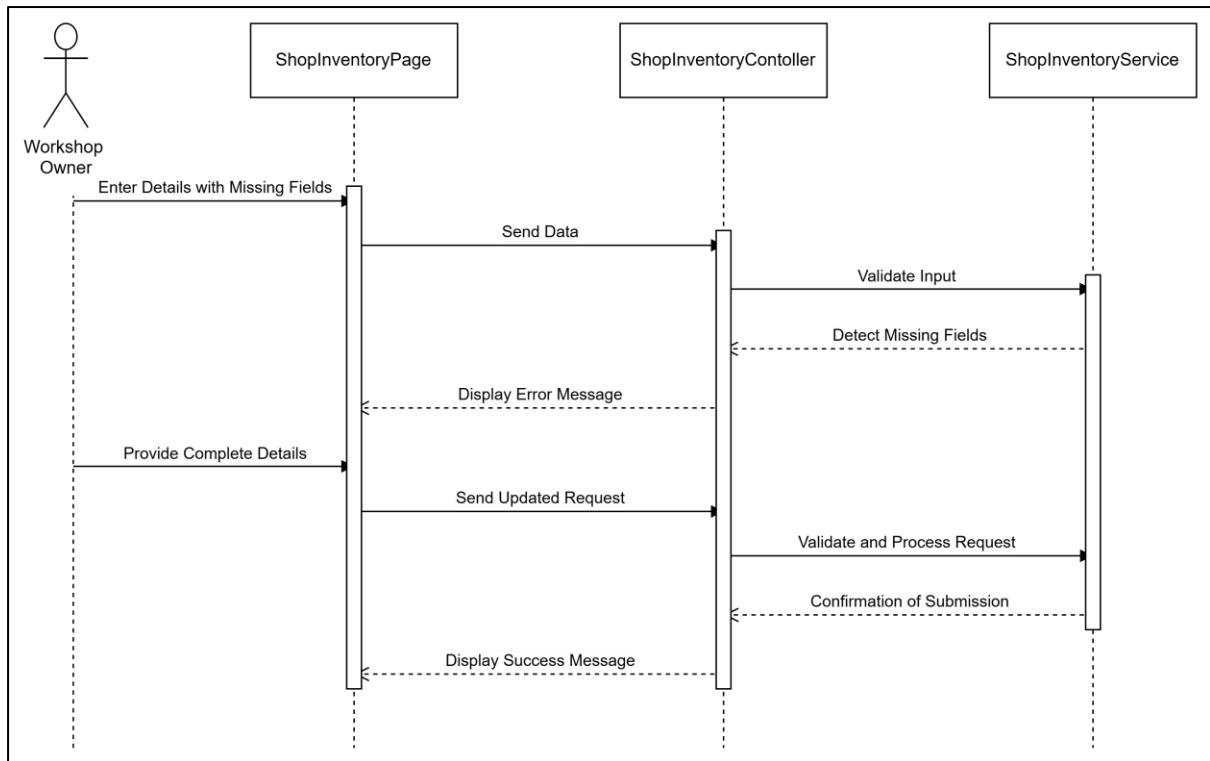


Figure 22: Alternative Flow 1: Incomplete Request

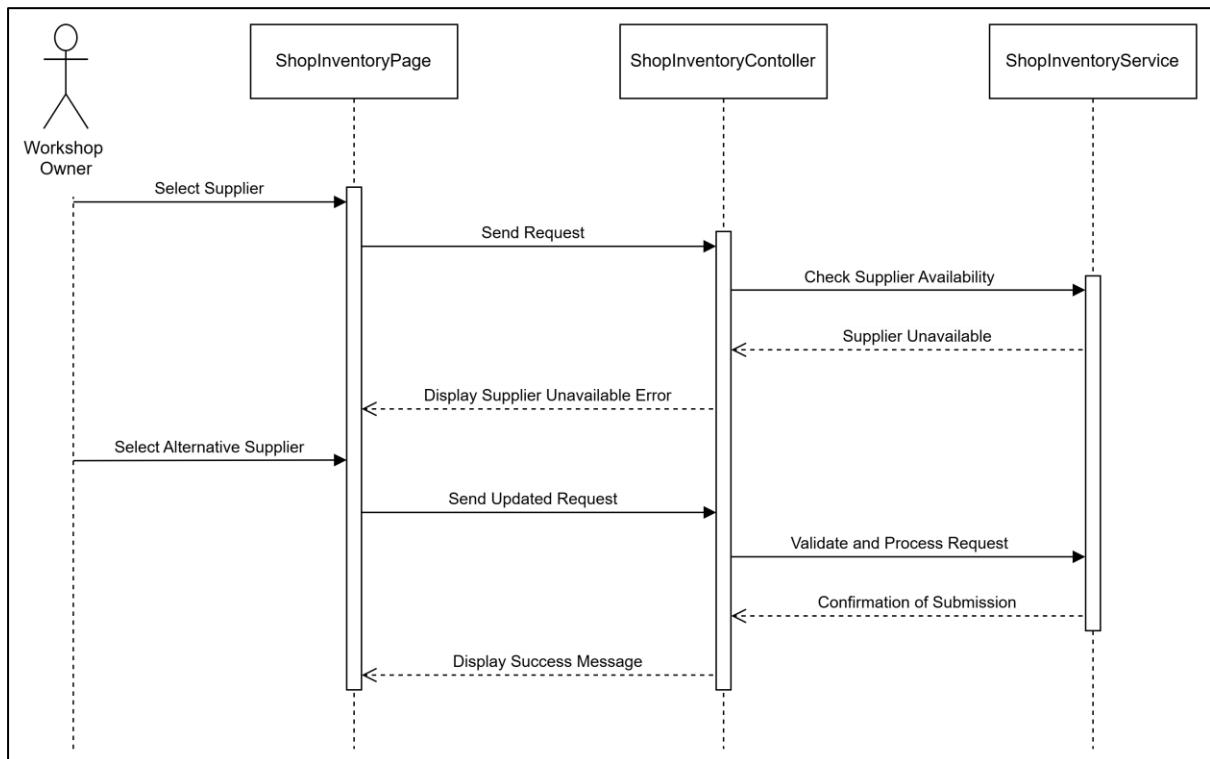


Figure 23: Exception Flow 1: Supplier Unavailable

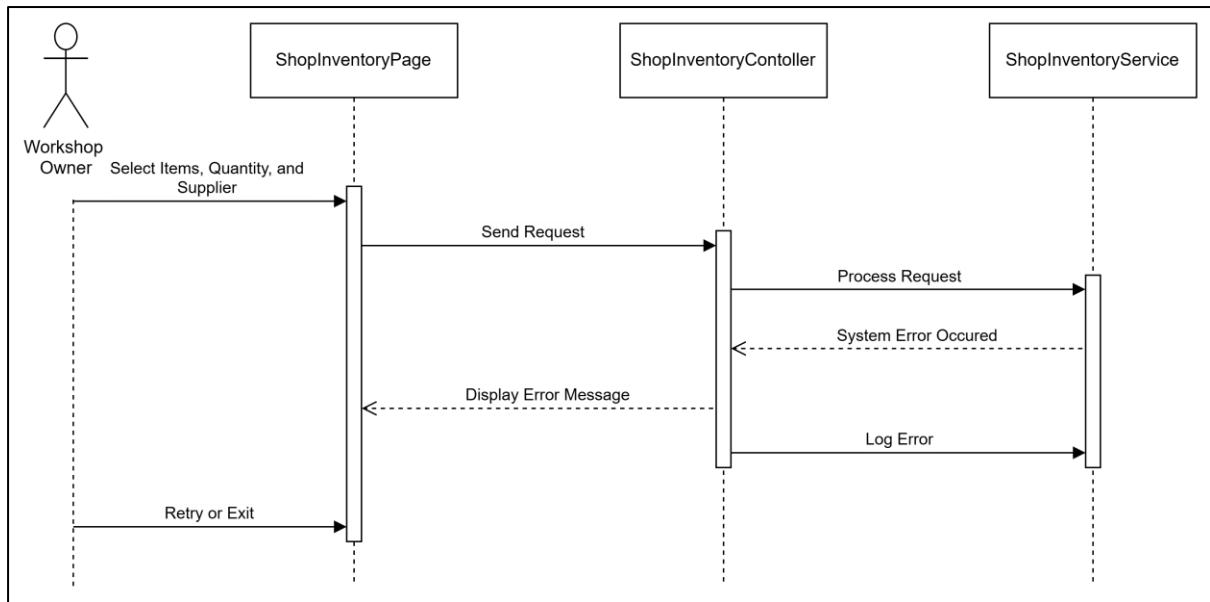


Figure 24: Exception Flow 2: System Error

3.2.4. User Interface

- Manage Shop Inventory

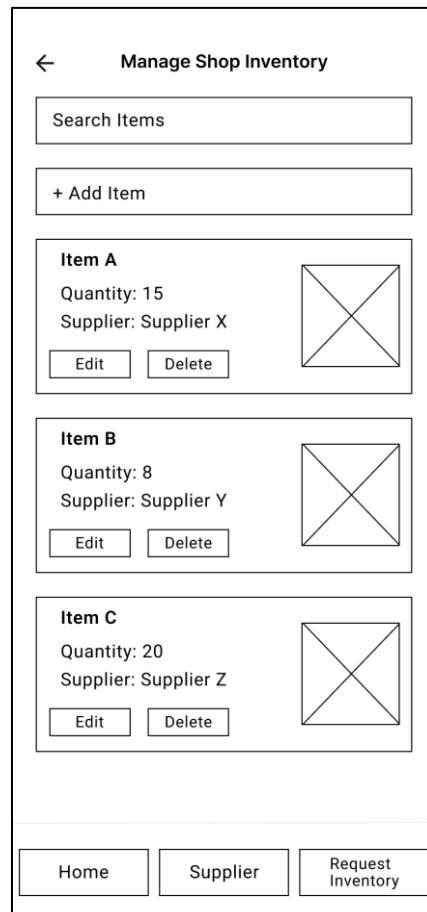


Figure 25: Dashboard

← Add Stock

New Inventory Item

Item Name

Description

Quantity

Supplier

Figure 26: Add Item

← Edit Stock

Update Inventory Item

Item Name

Item D

Description

- Made of super allow steel which can stand high pressure and more durable
- Ergonomic design that is meant for energy-saving and efficient work

Quantity

50

Supplier

SUI U MACHINERY & TOOLS (M) SDN BHD

Figure 27: Update Item



Figure 28: Remove Item

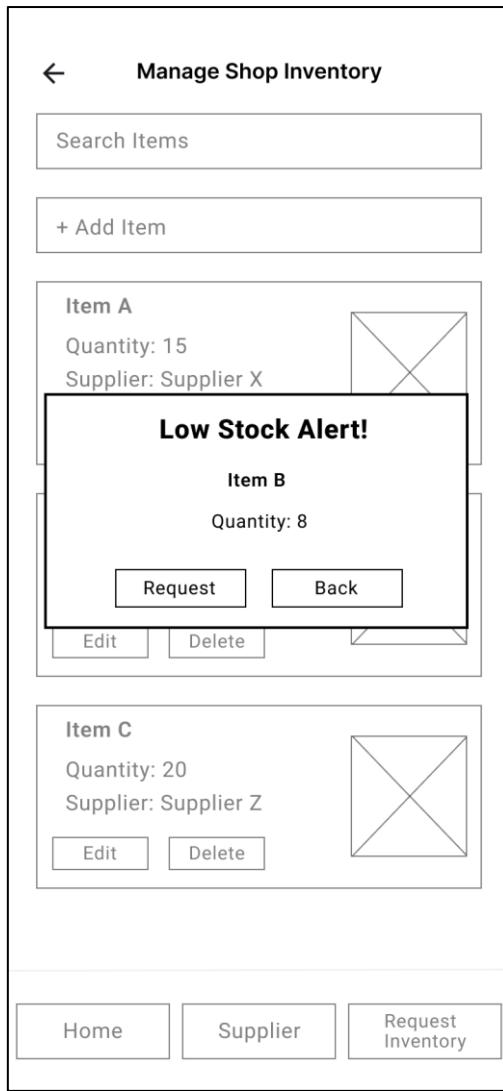


Figure 29: Low Stock Alert

← Edit Stock

Update Inventory Item

Item Name

Item D

Description

- Made of super allow steel which can stand high pressure and more durable
- Ergonomic design that is meant for energy-saving and efficient work

Quantity

Enter item quantity

! Required field

Supplier

SUI U MACHINERY & TOOLS (M) SDN BHD

Home

Supplier

Request Inventory

Figure 30: Incomplete Information

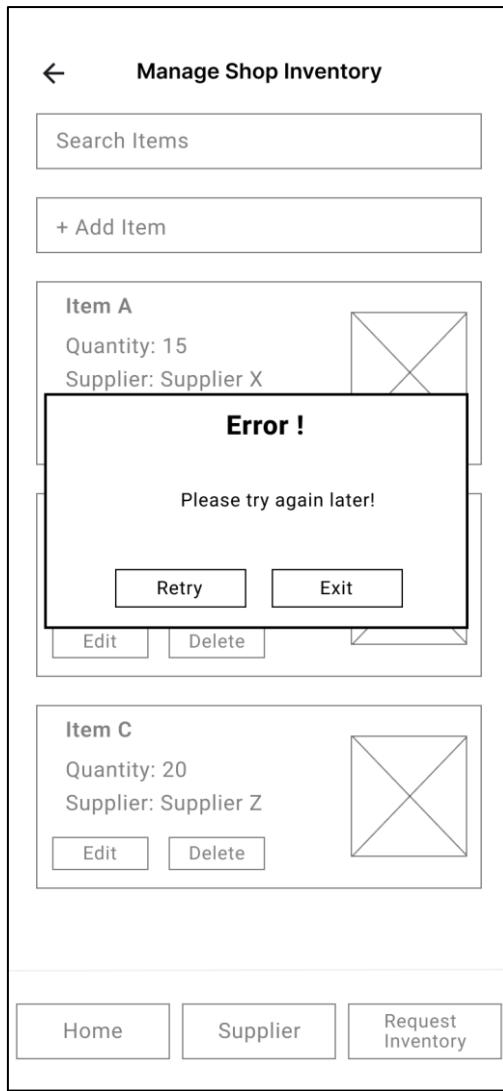


Figure 31: System Error

- User Interface for *extends*: Request Inventory

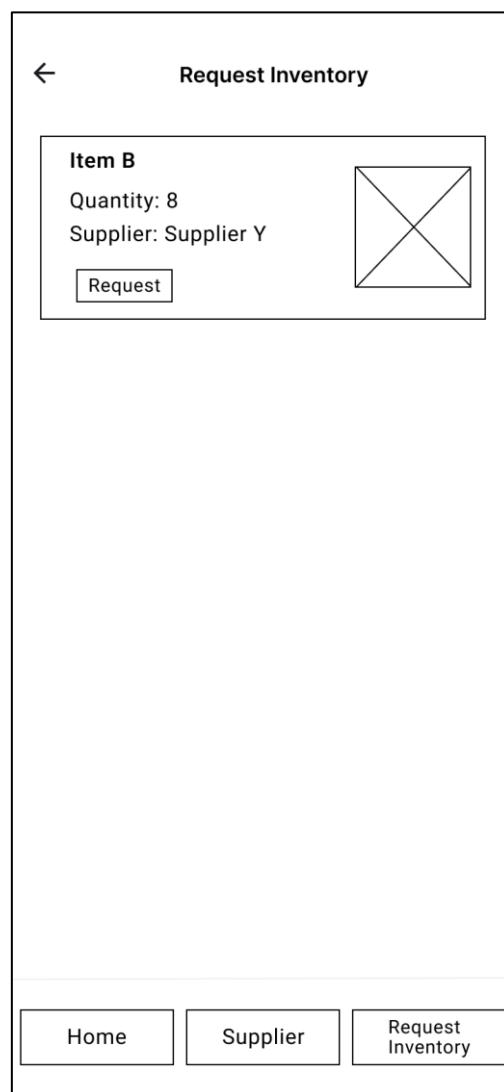


Figure 32: Dashboard

← Request Inventory

Request Inventory Item

Item Name

Item B

Description

- Made of super allow steel which can stand high pressure and more durable
- Ergonomic design that is meant for energy-saving and efficient work

Quantity

50

Supplier

SUI U MACHINERY & TOOLS (M) SDN BHD

Home

Supplier

Request Inventory

Figure 33: Request Item

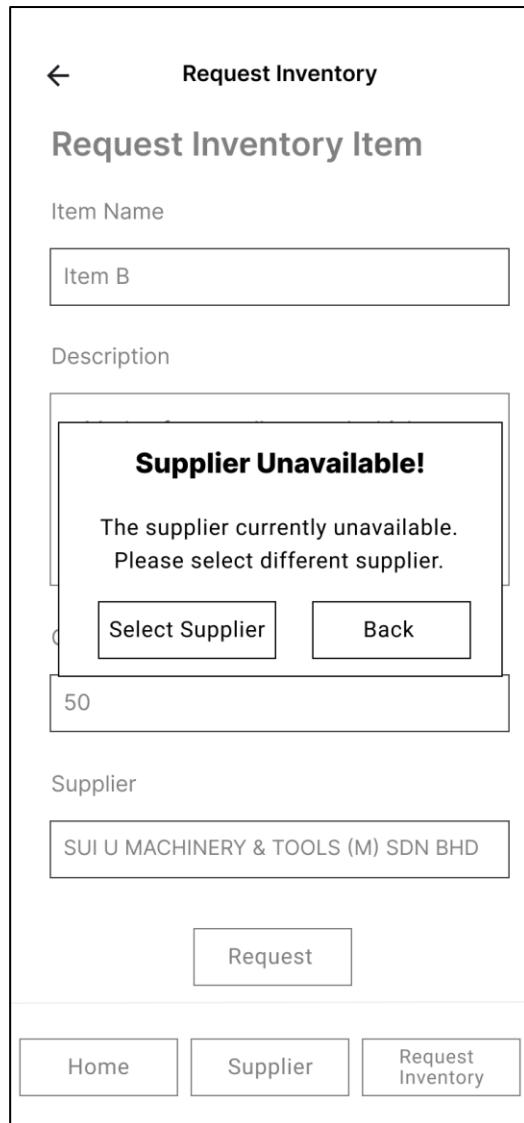


Figure 34: Supplier Unavailable

← Request Inventory

Request Inventory Item

Item Name

Item B

Description

- Made of super allow steel which can with stand high pressure and more durable
- Ergonomic design that is meant for energy-saving and efficient work

Quantity

Enter item quantity

! Required field

Supplier

SUI U MACHINERY & TOOLS (M) SDN BHD

Home

Supplier

Request Inventory

Figure 35: Incomplete Request

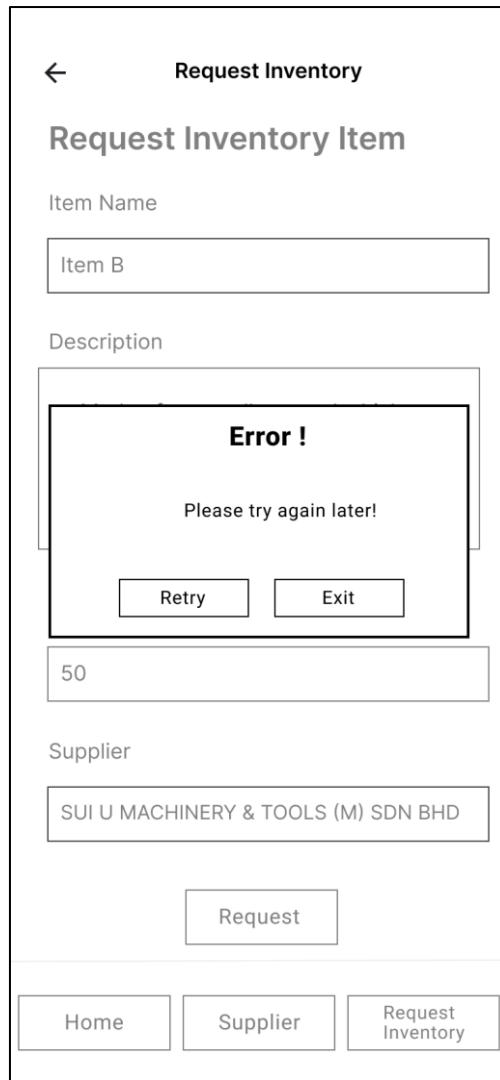


Figure 36: System Error

3.3 Manage Foreman Schedule (includes: Select Available Schedule) [By: Amala Karthigayan]

3.3.1 Use Case Diagram

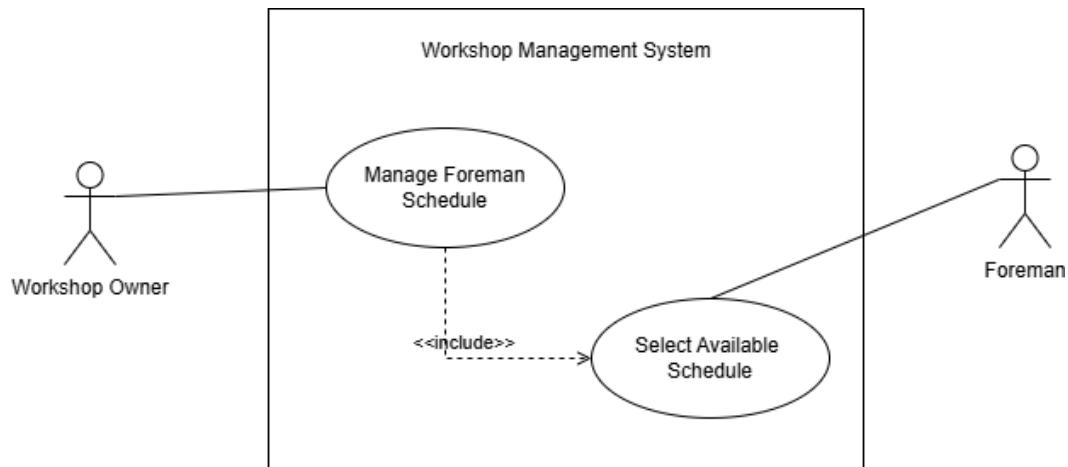


Figure 37: Use case for Manage Foreman Schedule & Select Available Schedule

3.3.2 Use Case Description

- **Manage Foreman Schedule**

Use Case ID	UC04-WMS-2025
Brief Description	This use case is initiated by the workshop owner and the foremen. It provides the owner the capability to manage the foreman schedules by setting the date, time and location. Owner can also edit or delete the schedules according to their preferences. Additionally, the owner can view all the assigned schedules. Besides, the foremen can also view the available schedule.
Actor	Workshop Owner and Foreman
Pre-Conditions	<ol style="list-style-type: none">1. The workshop owner must be logged into the system.2. Foremen must have a registered profile.

Basic Flow	<ol style="list-style-type: none"> 1. The use case begins when the workshop owner navigates to the Manage Foreman Schedule dropdown in the main menu. 2. The owner selects the desired section either “Manage Gig Slots” or “Manage Gig Application”. 3. The system displays the appropriate page based on the owner’s selection. 4. The workshop owner is able to: <ul style="list-style-type: none"> • Add new gig slots [A1: Add Slots] • Edit the gig slots [A2: Edit Slots] • Delete the gig slots [A3: Delete Slots] • Approve Foreman Applications [A4: Approve Application] 4. The workshop owner receives a success message upon successfully adding, editing, or deleting gig slots. 5. The system notifies the foreman on any changes made to gig slots (addition, editing, or deletion) or updates regarding the approval or rejection of their application. 6. The use case ends.
Alternative Flow	<p>A1 : Add Slots [REQ-WMS-2025-401]</p> <ol style="list-style-type: none"> 1. The owner creates a new gig slot by specifying the date, time, location, job description, no.of foremen required and payment details. 2. A red-colored message appears under the foreman count field: “Foreman count cannot be edited once the slot is added.” 3. The owner clicks <<ADD SLOT>>.

4. The system displays a confirmation pop-up: "Once added, the foreman count and gig location cannot be changed. Do you want to proceed?".
5. The owner confirms the confirmation message by clicking <<Yes>>.
6. The system checks for details redundancy **[E1: Slot Already Exists]**.
7. The system adds the slot and updates the records.
8. The use case continues to step number 4 in the basic flow.

A2 : Edit Slots [REQ-WMS-2025-402]

1. The workshop owner selects an existing gig slot to modify and clicks the <<EDIT>> button.
2. The owner updates the date, time, location, job details, required number of foremen or payment details as needed.
3. The owner clicks <<SAVE CHANGES>>.
4. The system deletes the slot and updates the records.
5. The use case continues to step number 4 in the basic flow.

A3 : Delete Slots [REQ-WMS-2025-403]

1. The workshop owner selects a posted gig slot to remove and click the <<DELETE>> button.
2. The system validates if any foremen have booked the slot and displays a confirmation message to proceed with the deletion.
3. The owner confirms by clicking <<Yes>>.

	<p>4. The system deletes the slot and updates the records.</p> <p>5. The use case continues to step 4 in the basic flow.</p>
	<p>A4: Approve Application [REQ-WMS-2025-404]</p> <ol style="list-style-type: none"> 1. The system displays a list of foreman applications for available slots. 2. The owner selects an application and clicks <<Approve>> or <<Reject>>. 3. The system updates the application status and assign the foreman. 4. The use case returns to step number 5 in the basic flow.
Exception Flow	<p>E1 : Slot Already Exist [REQ-WMS-2025-405]</p> <ol style="list-style-type: none"> 1. The system displays an error message stating “A gig slot with the same job description already exists at this location, date and time”. 2. The workshop owner modifies the job description or location to resolve the conflict. 3. The use case return to step number 3 in alternative flow A1.
Post Conditions	<ol style="list-style-type: none"> 1. The system successfully updates the gig slots based on the owner’s actions (add, edit, or delete). 2. The system successfully updates the gig applications status based on the owner’s actions (approve or reject). 3. Foremen can view and select available slots. 4. Foremen receives notification about the application status and changes made to the gig slots they have applied for.
Rules	<ol style="list-style-type: none"> 1. A gig slot at the same date, time, location, and job description cannot be duplicated.

	<ol style="list-style-type: none"> 2. The foreman count and gig location cannot be modified once the slot has been created. 3. If foremen have already booked a slot, deletion requires owner confirmation and foremen must be notified.
Constraints	The system must handle multiple owners and foremen accessing schedules at the same time without conflicts.

- **Select Available Schedule**

Use Case ID	UC05-WMS-2025
Brief Description	This use case is initiated by the foreman and workshop owner. It allows foremen to view and select available gig slots posted by the workshop owners. The foremen can choose a slot based on the date, time, location, and job description. Additionally, the foreman can also cancel the booked slot.
Actor	Foremen and Workshop owner
Pre-Conditions	<ol style="list-style-type: none"> 1. The foreman must be logged into the system. 2. The foreman must have a registered profile in the system. 3. The workshop owner must have posted available gig slots.
Basic Flow	<ol style="list-style-type: none"> 1. The use case begins when the foremen selects the Gig Application option from the main menu. 2. The system displays all open gig slots, including the date, time, location, job description, required foremen count, and payment details. 3. The foreman is able to: <ul style="list-style-type: none"> • Select an available gig [A1: Apply Gig] • Cancel booked gig [A2: Cancel Application] 4. The system updates the schedule according the foreman's action and displays a success message. 5. The foreman can view the applied gig slot's status. 6. The use case ends.

Alternative Flow	<p>A1: Apply Gig [REQ-WMS-2025-501]</p> <ol style="list-style-type: none"> 1. The foreman filters and chooses preferred slots based on location, job type, date or time. 2. If the slot is available [E1: Slot Not Available], the foreman clicks the <<Apply Gig>> button. 3. The system notifies the workshop owner of the foreman's application. 4. The workshop owner can approve or reject the foreman's application for the gig slot. 5. The use case returns to step number 4 in the basic flow. <p>A2: Cancel Application [REQ-WMS-2025-502]</p> <ol style="list-style-type: none"> 1. The foreman selects a previously applied slot. 2. The foreman clicks the <<Cancel Application>> button. 3. If the gig starts in more than 24 hours, the system proceeds with the cancellation [E2: Cancellation Not Applicable] and display a confirmation message. 4. The foreman clicks <<Yes>> to confirm the cancellation. 5. The system notifies the workshop owner about the cancellation. 6. The use case returns to step number 4 in the basic flow.
Exception Flow	<p>E1 : Slot Not Available [REQ-WMS-2025-503]</p> <ol style="list-style-type: none"> 1. The system displays an error message stating that "The selected slot is no longer available. Please choose another slot." 2. The use case returns to step number 1 in alternative flow A1. <p>E2 : Cancellation Not Applicable [REQ-WMS-2025-504]</p> <ol style="list-style-type: none"> 1. The system displays an error message: "Cancellations must be made at least 24 hours before the gig starts. Contact the workshop owner for assistance." 2. The foreman is unable to proceed with cancellation.

	<ul style="list-style-type: none"> 3. The use case ends.
Post Conditions	<ul style="list-style-type: none"> 1. The foreman is successfully assigned to a gig slot. 2. The system updates the foreman's schedule accordingly. 3. The workshop owner can view the gig schedule list and approve or reject the application.
Rules	<ul style="list-style-type: none"> 1. A foreman cannot select a slot that has already reached its required number of foremen. 2. A foreman cannot select multiple overlapping slots.
Constraints	Foremen can only cancel bookings at least 24 hours before the gig starts.

3.3.3 Sequence Diagram [SEQ-WMS-2025-401 & SEQ-WMS-2025-501]

- Manage Foreman Schedule (Manage Gig Slots & Manage Gig Application)

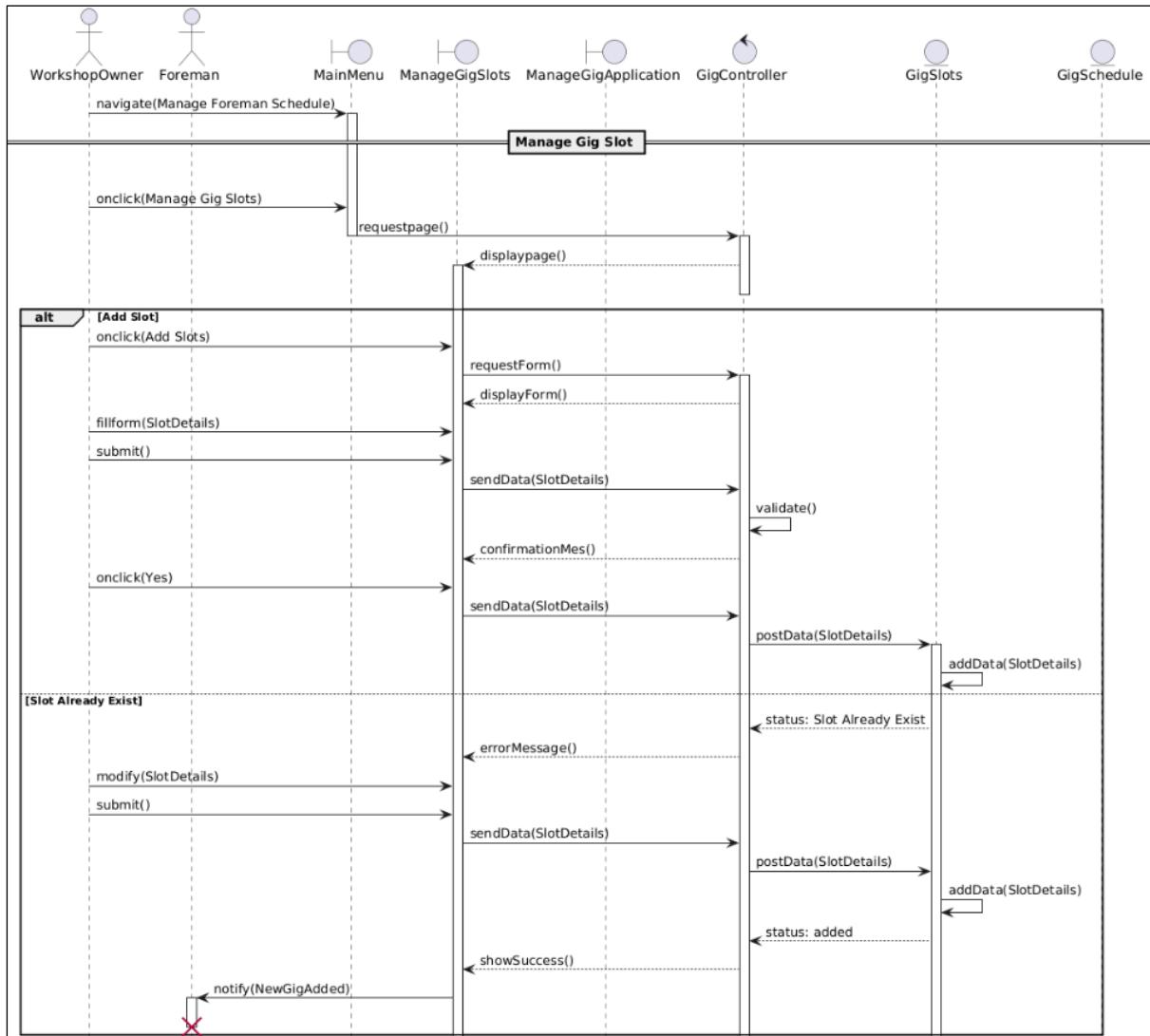


Figure 38: Manage Gig Slot A1 & E1

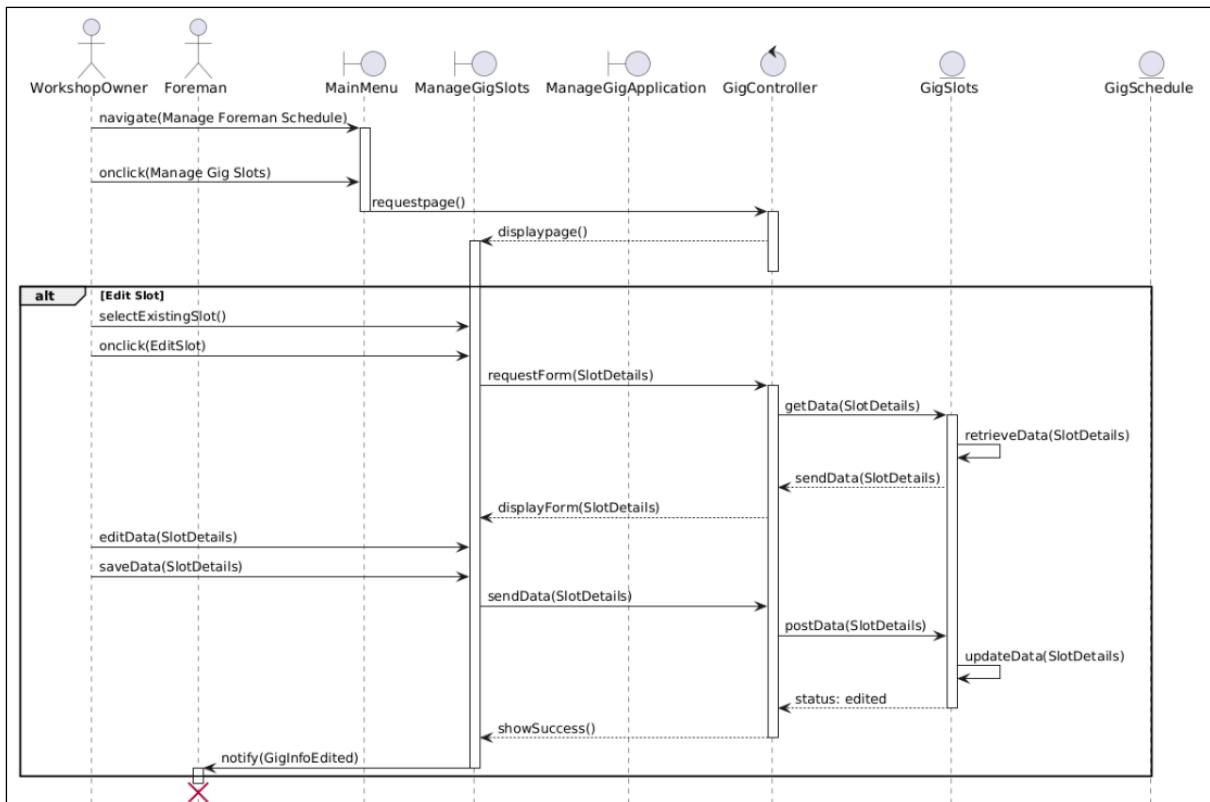


Figure 39: Manage Gig Slot A2

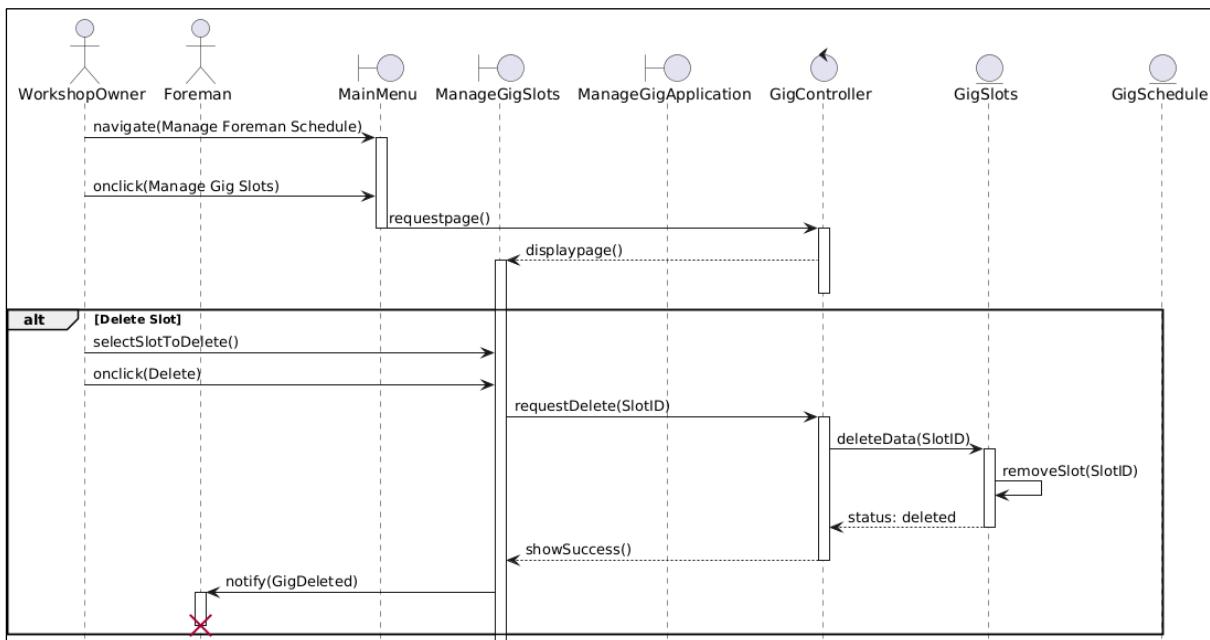


Figure 40: Manage Gig Slots A3

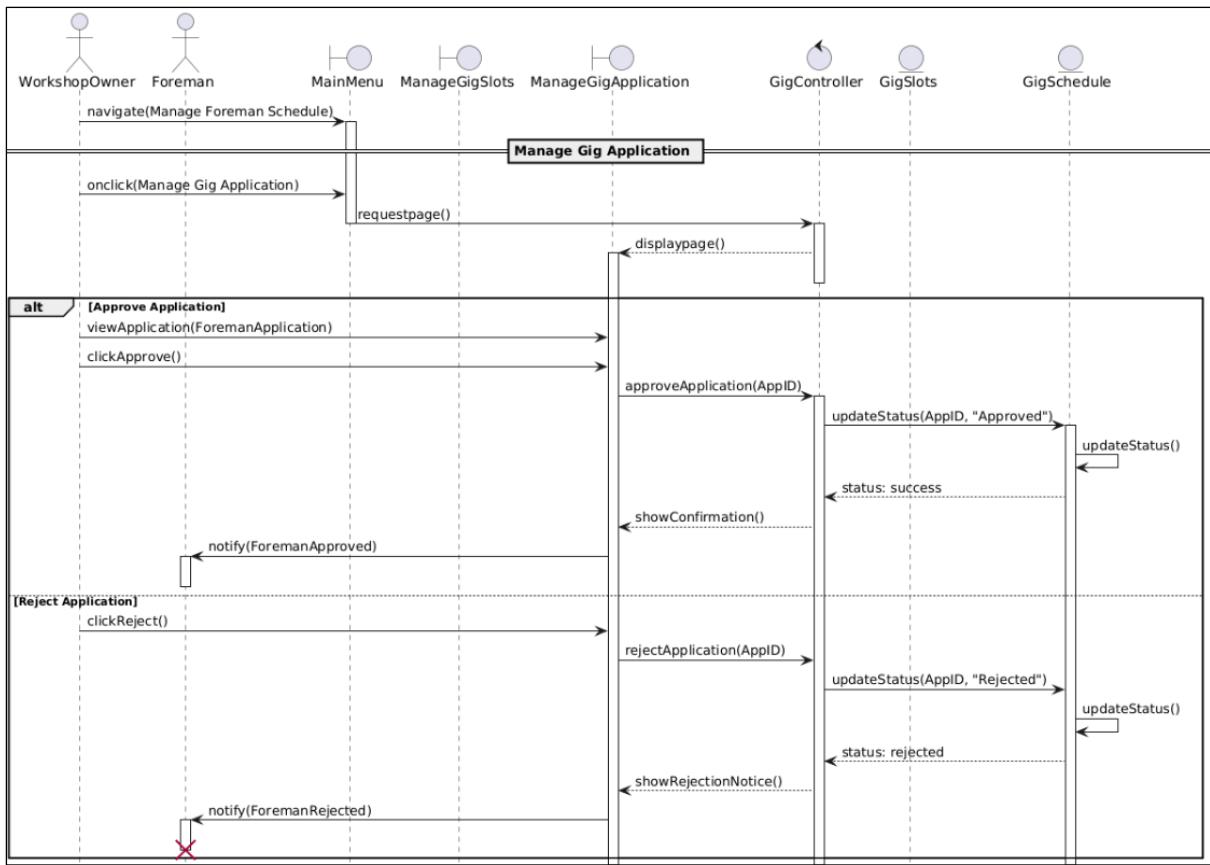


Figure 41: Manage Gig Application A4

- Select Available Schedule

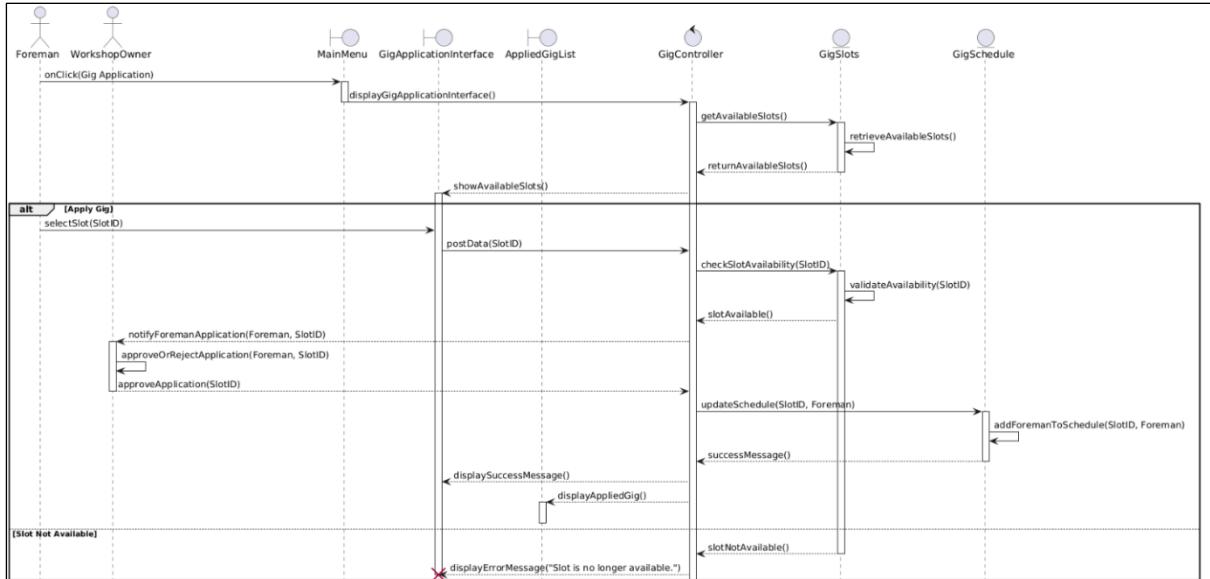


Figure 42: Apply Gig A1 & E1

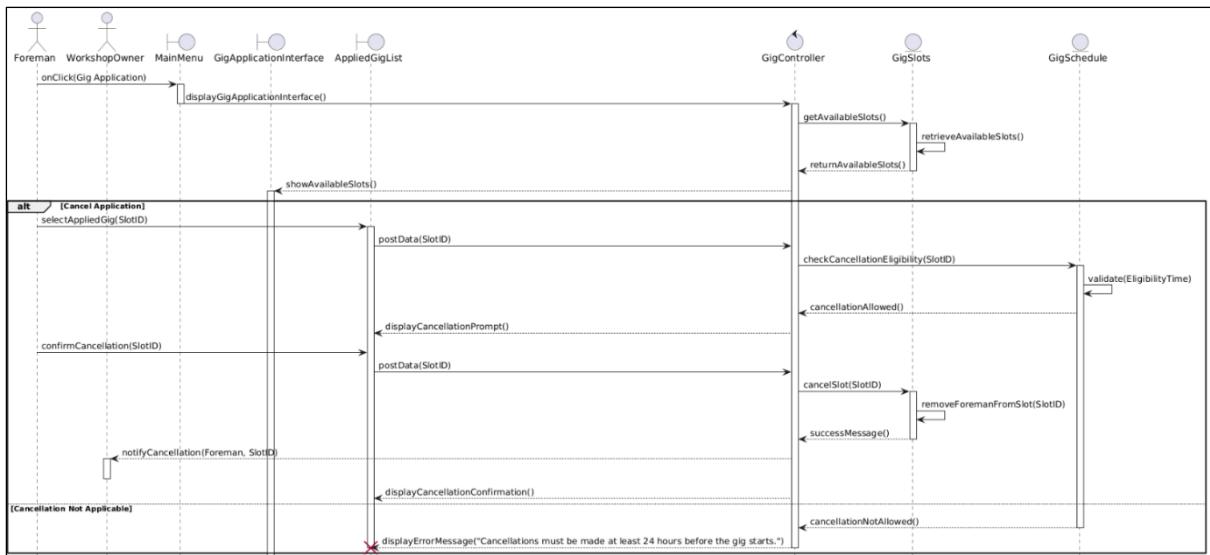


Figure 42: Cancel Application A2 & E2

3.3.4 User Interface

- Manage Foreman Schedule

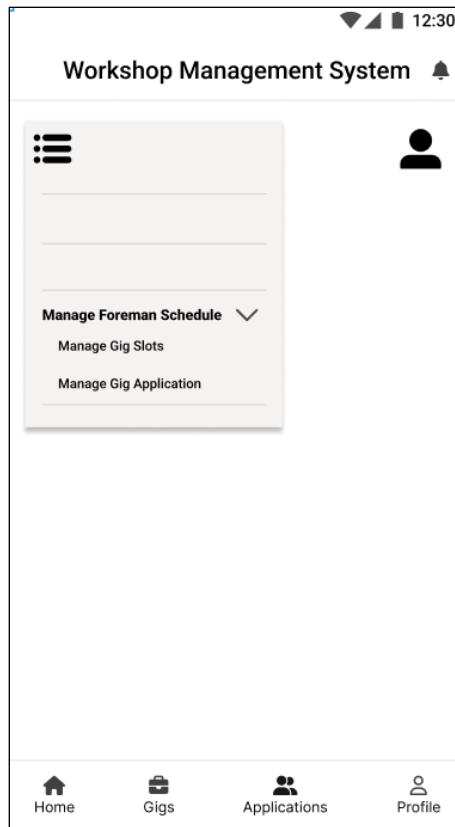


Figure 43: Sitemenu For Manage Foreman Schedule

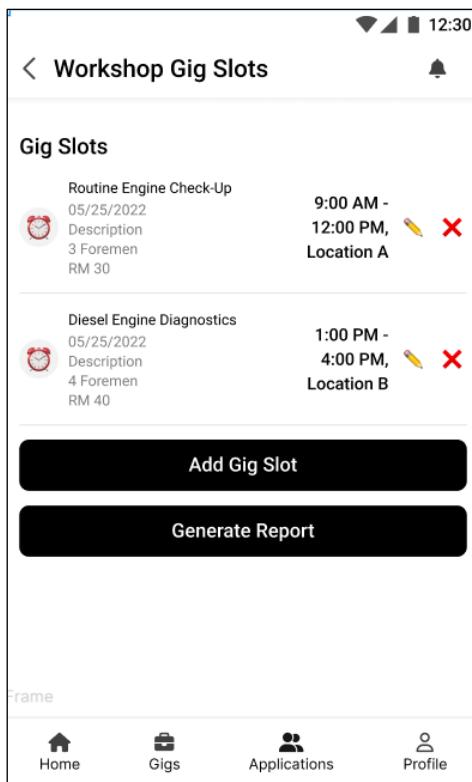


Figure 44: Gig Slots Page

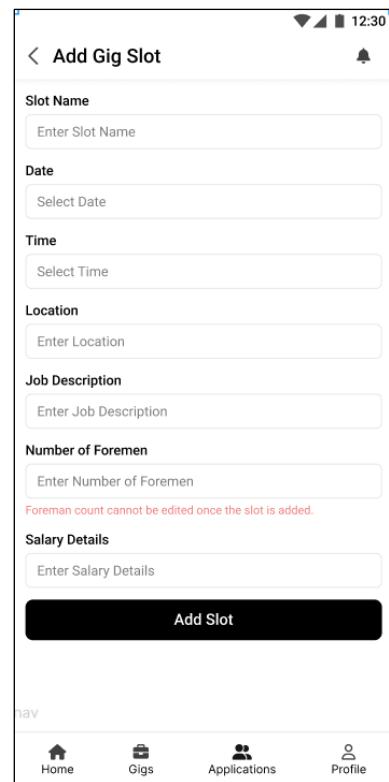


Figure 45: Add Slots Page

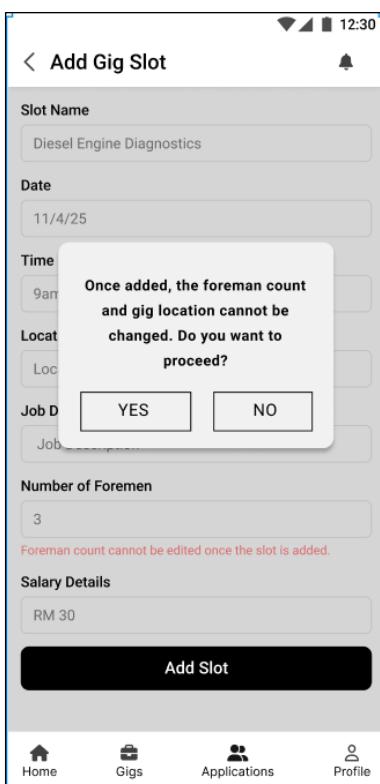


Figure 46: Add Slot - Confirmation

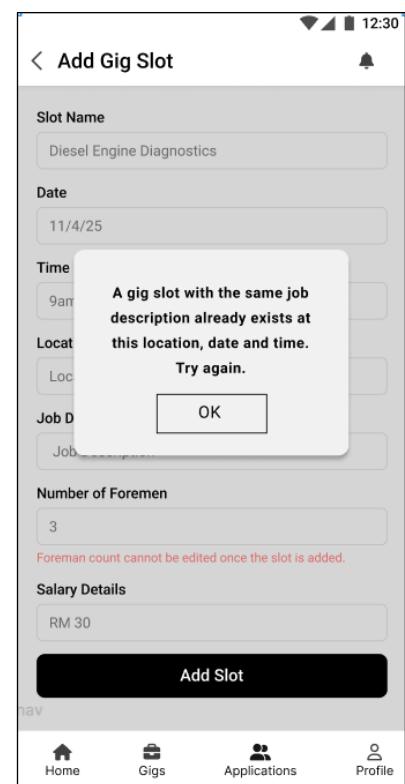


Figure 47: Add Slot - Slot Exist

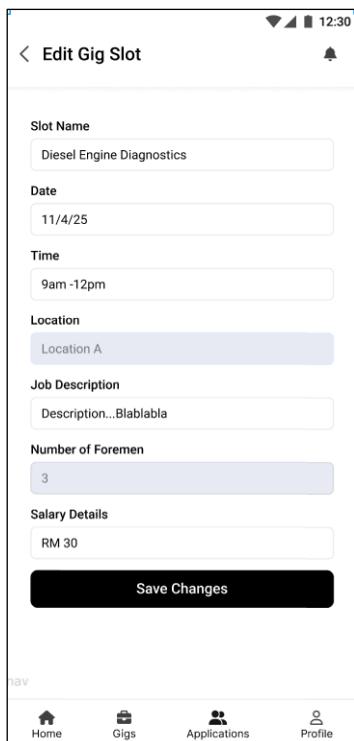


Figure 48: Edit Slot

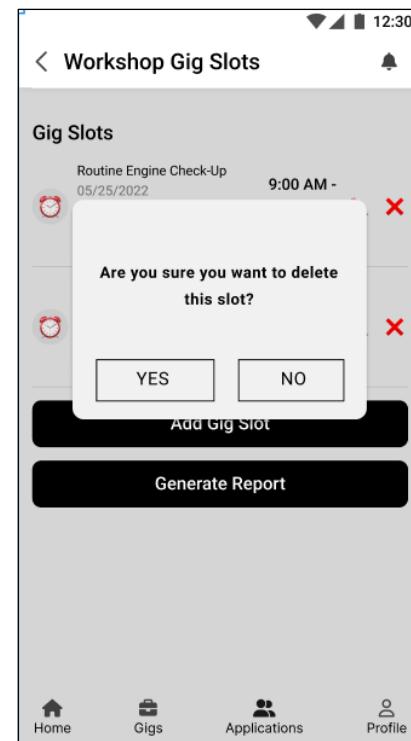


Figure 49: Delete Slot

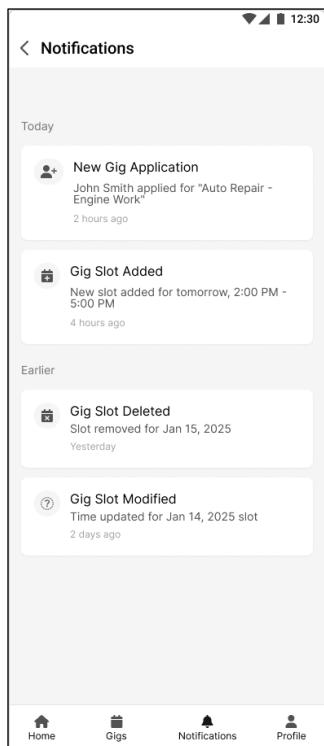


Figure 50: Workshop Owner Notifications

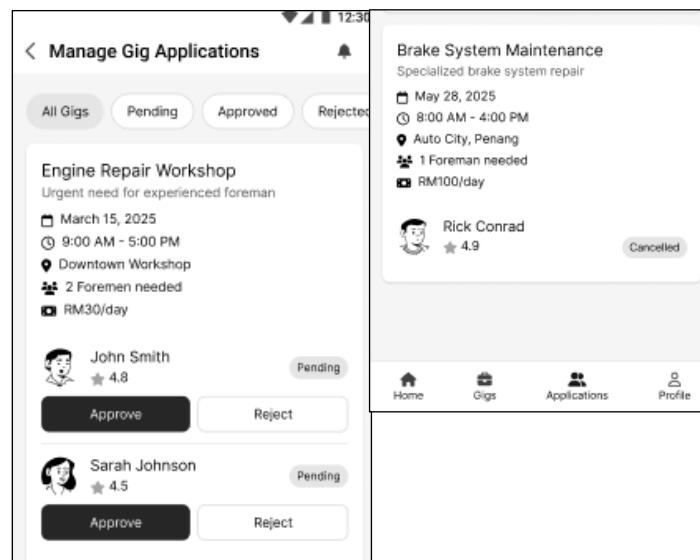


Figure 51: Manage Gig Application

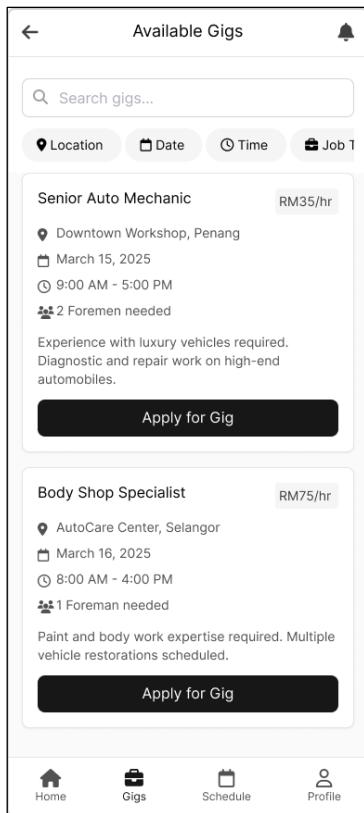


Figure 52: Available Gig List

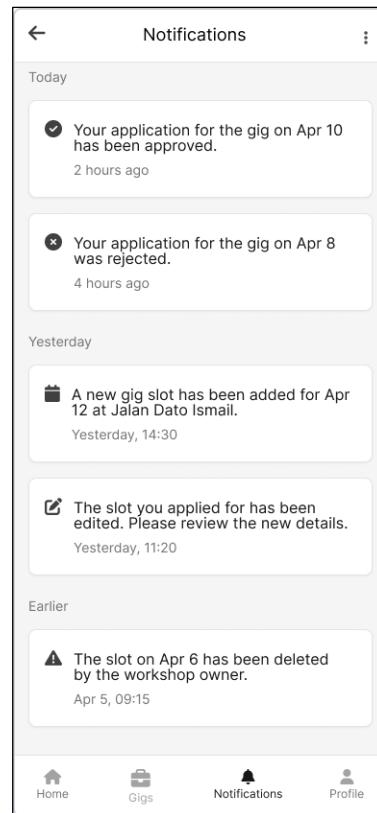


Figure 53: Foreman Notifications

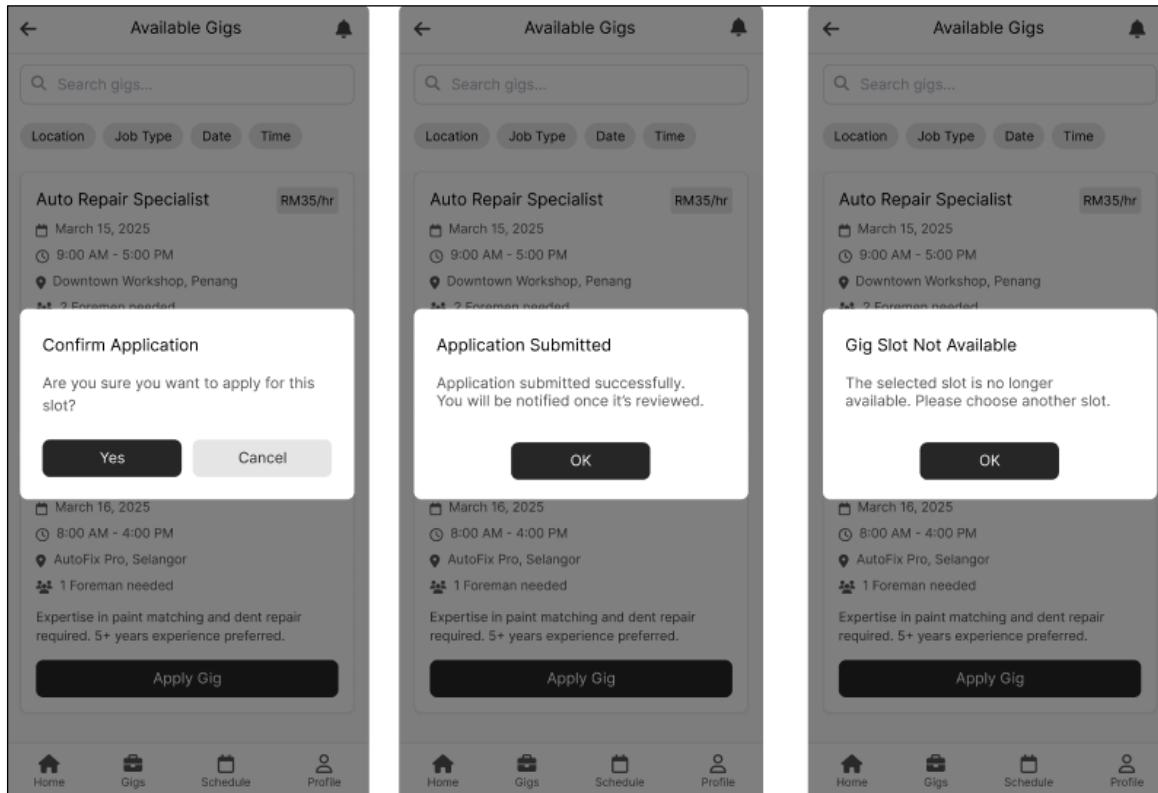


Figure 54: Gig Application

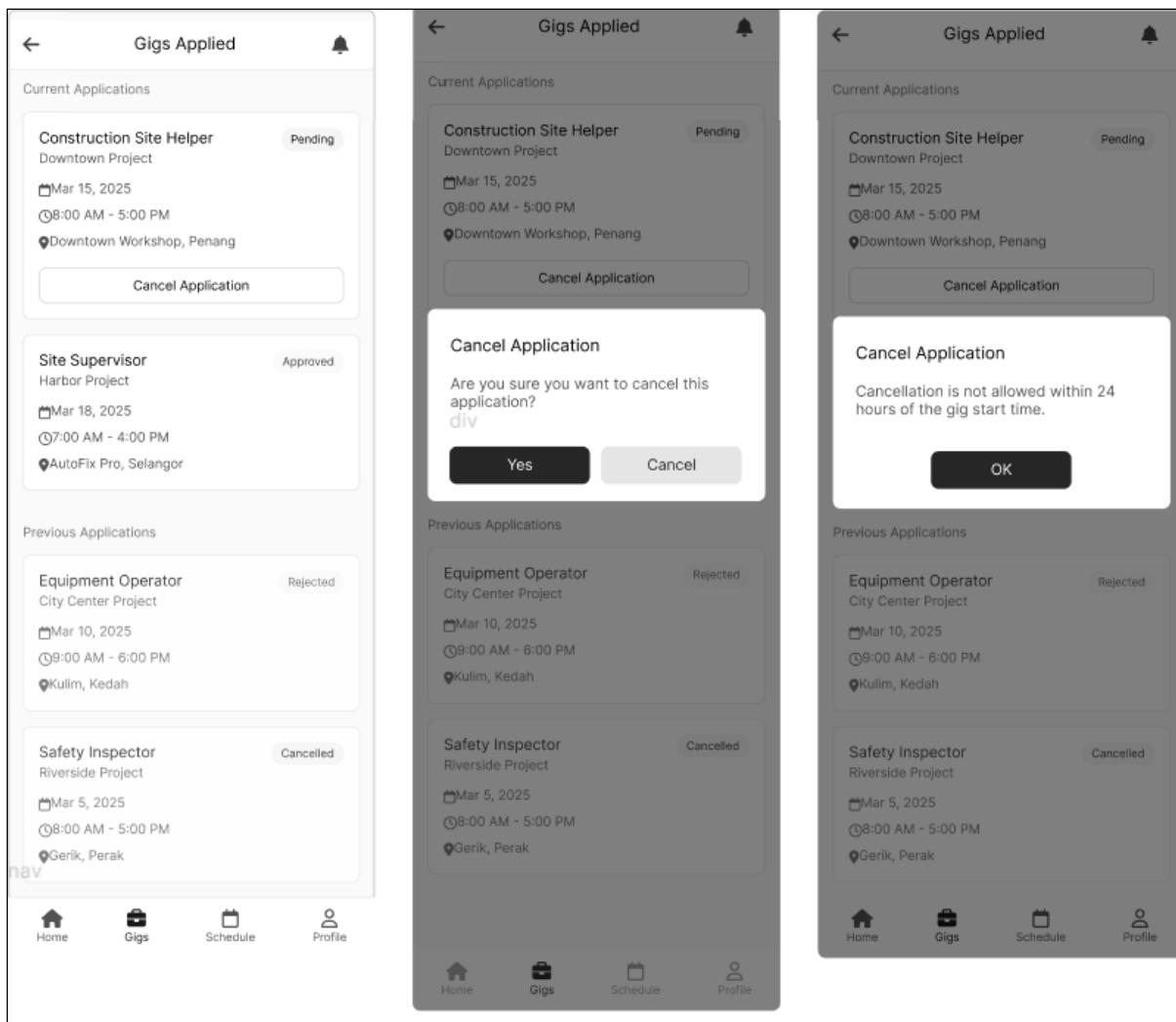


Figure 55: Cancel Application

3.4. Manage Payroll (By: Nur Nabihah Fatiny Binti Ismail)

3.4.1 Use Case Diagram

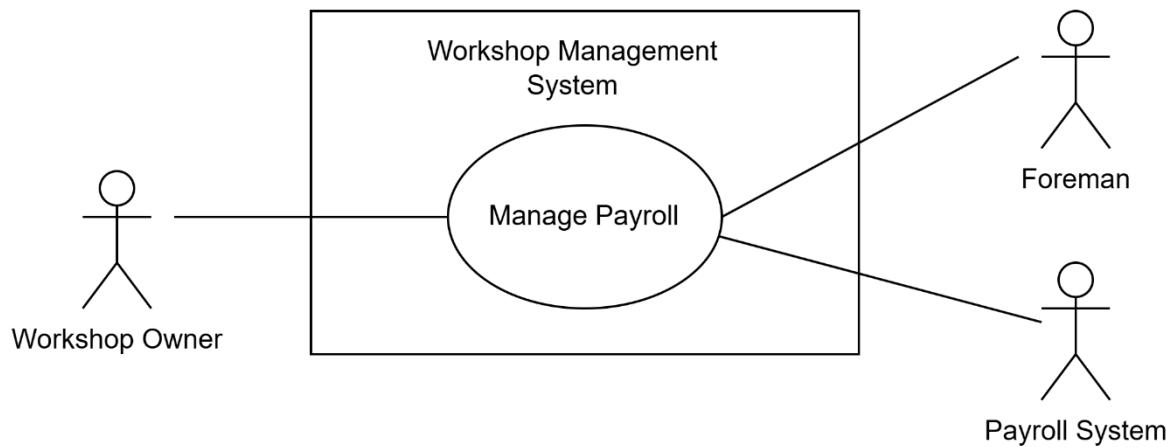


Figure 56: Use Case for Manage Payroll

3.4.2 Use Case Description

Use Case ID	UC-06
Brief Description	This use case describes how the Workshop Owner manages payment for the workshop system. The Workshop Owner can monitor and handle all payments in the system. The Foreman can only view their payroll details.
Actor	Workshop Owner, Foreman (View Only), Payroll System
Pre-Conditions	<ol style="list-style-type: none">1. The Workshop Owner is logged into the system.2. Foreman work records exist for payroll processing.
Basic Flow	<p>Workshop Owner</p> <ol style="list-style-type: none">1. The use case starts when the Workshop Owner navigates to the Manage Payroll section2. The system displays a list of Foremen with pending payments.3. The workshop Owner is able to:

	<p>3.1 Selects a Foreman from the list</p> <p>3.2 The system displays form to fill in the details</p> <p>3.3 The workshop owner chooses a bank account, enter name, account number, amount, payment date, Reference.</p> <p>[E1: Invalid Payment details REQ-WMS-601]</p> <p>[A1: Modify Payment Amount REQ-WMS-602]</p> <p>3.4 The workshop Owner clicks the <Submit Payment> button.</p> <p>[A2: Payment Cancellation REQ-WMS-603]</p> <p>3.5 The system sends the payment request to the Payroll System.</p> <p>3.6 The Payroll System confirms payment success.</p> <p>3.7 The system updates the payment status to "Successful".</p> <p>3.8 The use case end.</p>
Foreman	<ol style="list-style-type: none"> 1. The Foreman clicks "Manage Payroll". 2. System displays payroll records. 3. System shows records and payment status 4. The Foreman views all the displayed records. 5. Use case ends.
Alternative Flow	<p>A1: Modify Payment Amount (REQ-WMS-602)</p> <ol style="list-style-type: none"> 1. Before confirming the payment, the Workshop Owner modifies the payment amount. 2. The workshop Owner click update button. 3. The system updates the payment amount.

	<p>4. The use case continues to step 3.4 in the basic flow.</p> <p>[A2: Payment Cancellation REQ-WMS-603]</p> <ol style="list-style-type: none"> 1. The Workshop Owner clicks the <<Submit Payment>> button. 2. The Workshop Owner clicks <<cancell>> button to cancel the payment. 3. The use case continues to step 3.4 in the basic flow.
Exception Flow	<p>E1: Invalid Payment Details (REQ-WMS-601)</p> <ol style="list-style-type: none"> 1. The system validates the payment details entered by the Workshop Owner. 2. If any input of error details of account number the system displays an error message: "Invalid payment details. Please check and try again." 3. The Workshop Owner re-enters the correct details. 4. The use case returns to step 3.3 in the Basic Flow.
Post Conditions	<ol style="list-style-type: none"> 1. Payment records are updated successfully. 2. Foremen can view their payroll details after payment.
Rules	Only the Workshop Owner can process payroll payments.
Constraints	The system needs an active internet connection for payment processing.

3.4.3 Sequence Diagram [SEQ-WMS-2025-601]

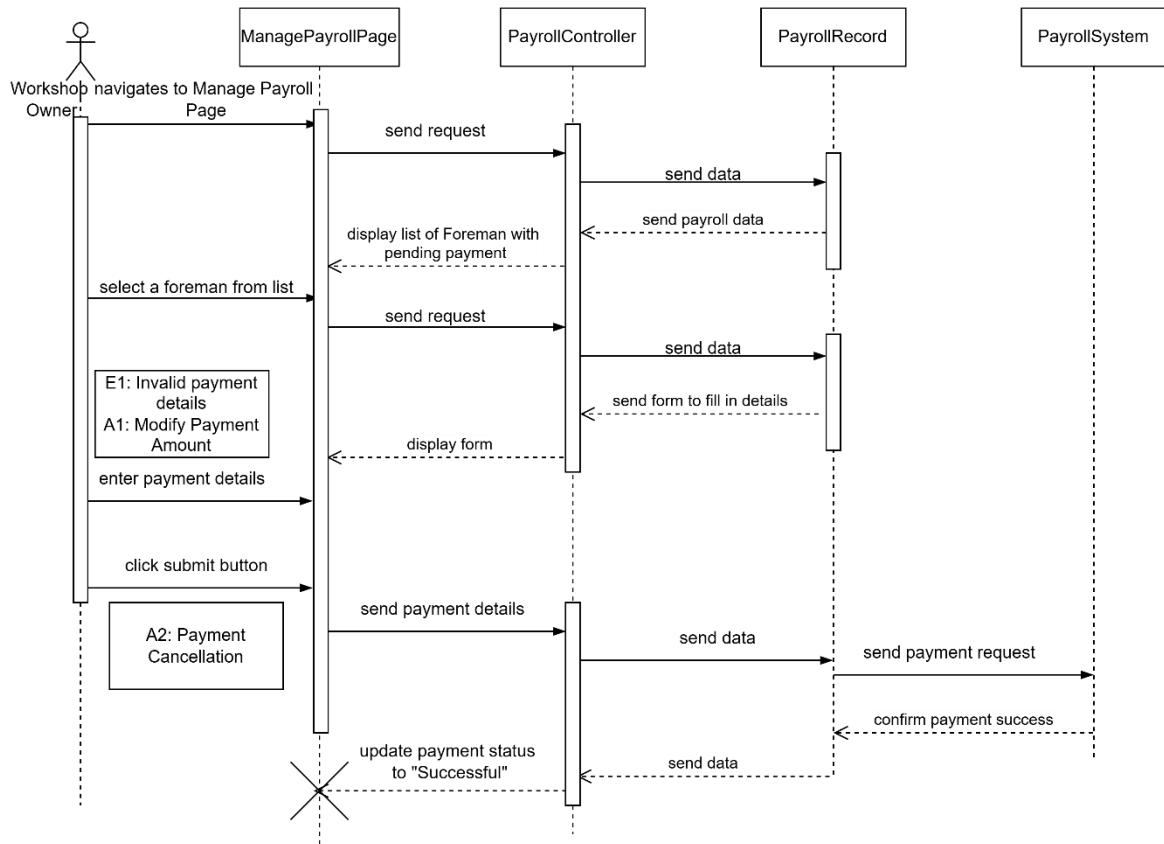


Figure 57: Manage Payroll Basic Flow (Workshop owner)

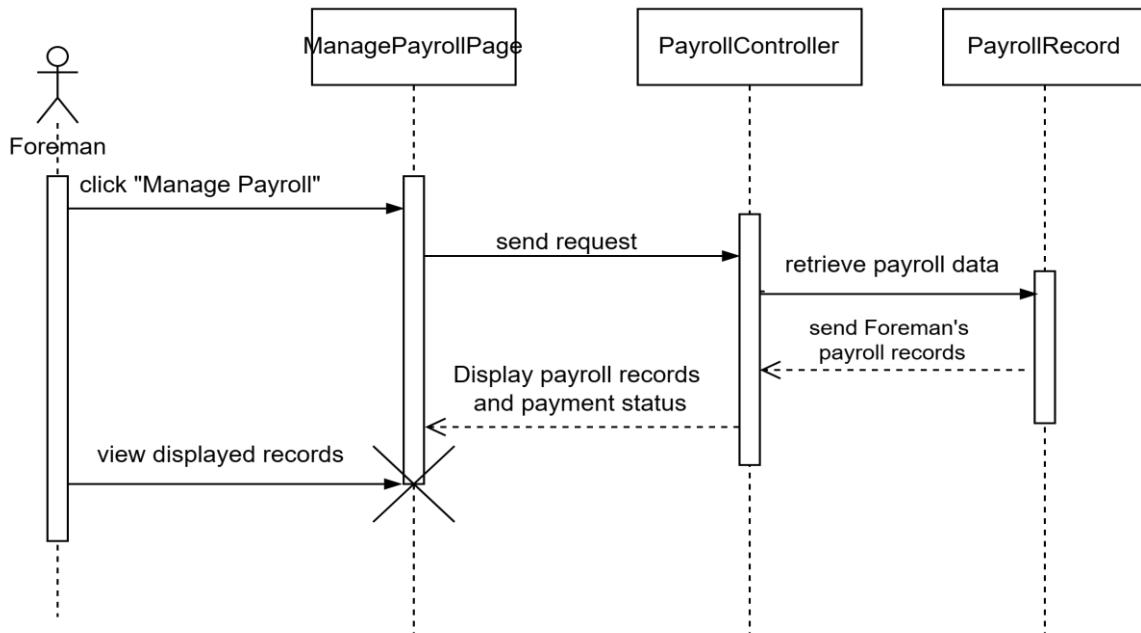


Figure 58: Manage Payroll Basic Flow (Foreman)

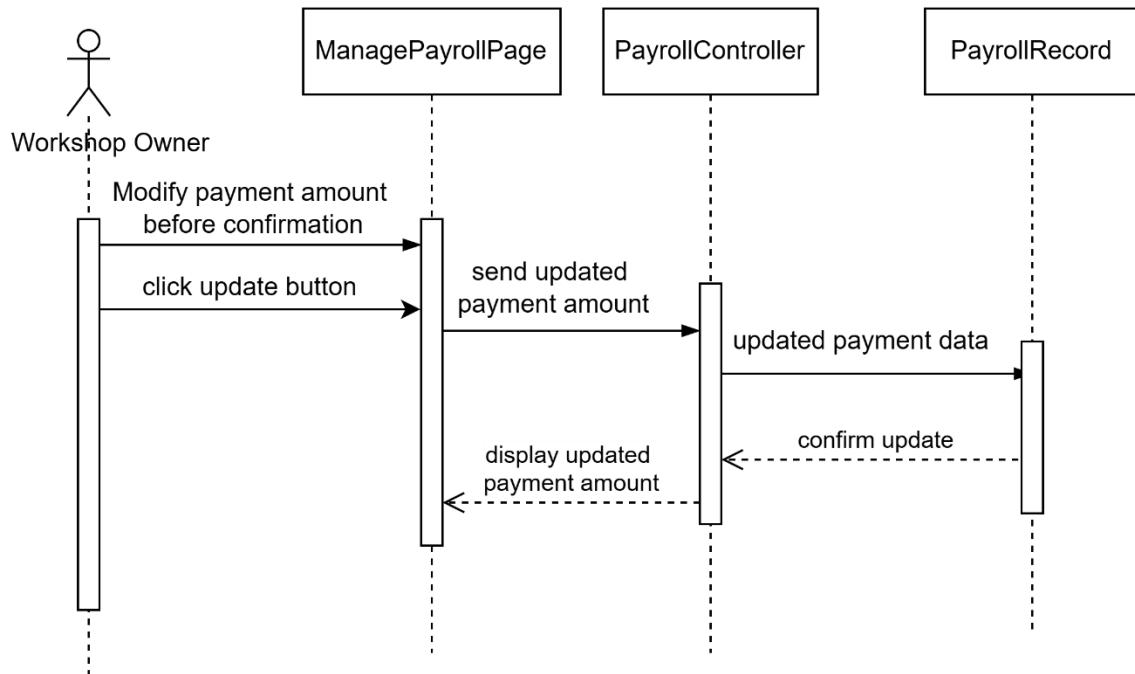


Figure 59: Alternative Flow A1: Modify Payment Amount

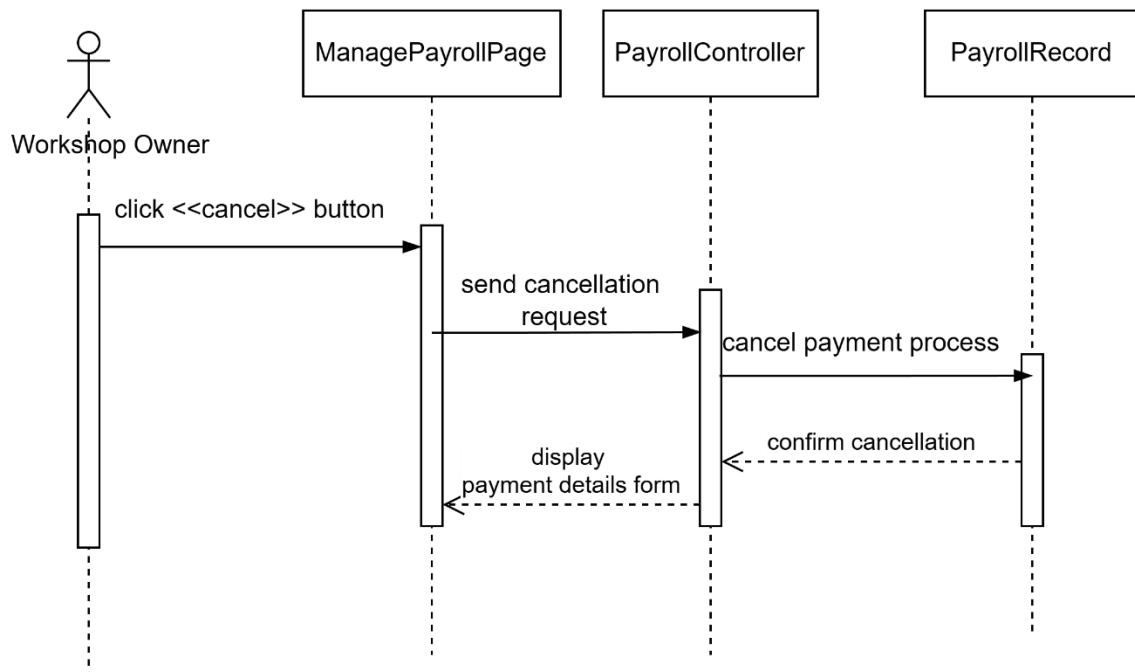


Figure 60: Alternative Flow A2: Payment Cancellation

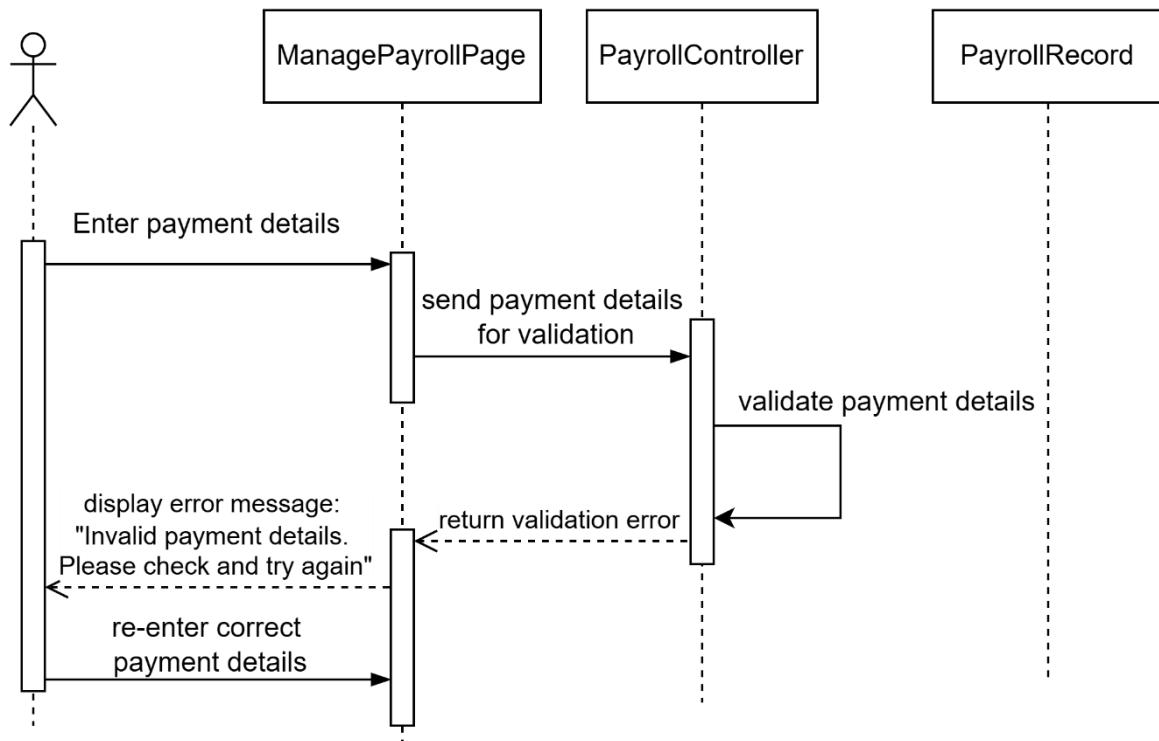


Figure 61: Exception Flow E1: Invalid Payment Details

3.4.4 User Interface

Workshop Co

Payment Details

Choose Bank

Select... ▾

To

Account Number

Amount (MYR)

Payment Date

Reference

Appears in recipient's statement

Submit Payment

The form consists of several input fields and labels. At the top, it says 'Workshop Co' and 'Payment Details'. Below that, 'Choose Bank' has a dropdown menu with 'Select...' and a downward arrow. 'To' is followed by a large gray redacted area. 'Account Number' is followed by another redacted area. 'Amount (MYR)' has a redacted area with a pencil icon. 'Payment Date' has a redacted area with a calendar icon. 'Reference' has a redacted area. Below these fields, a note says 'Appears in recipient's statement'. At the bottom is a large redacted area containing a 'Submit Payment' button.

Figure 63: Manage Payroll Payment Details Form

Workshop Co

Payment Details

Choose Bank
Select... ▾

To
[Redacted]

Account Number
[Redacted]

Modify Payment Amount

Current Amount: MYR 50.00
New Amount: (MYR)

45.00

This screenshot shows a payment modification interface. At the top, it displays 'Workshop Co' and 'Payment Details'. Below that are fields for 'Choose Bank' (a dropdown menu with 'Select...' and a downward arrow), 'To' (a redacted input field), and 'Account Number' (a redacted input field). A modal window titled 'Modify Payment Amount' is open, showing the 'Current Amount: MYR 50.00' and 'New Amount: (MYR)' fields. The 'New Amount' field contains '45.00'. At the bottom of the modal are 'Cancel' and 'Update' buttons, and a large 'Submit Payment' button.

Figure 64: Figure Manage Payroll (Modify Amount)

Workshop Co

Payment Details

Choose Bank
Select... ▾

To
[Redacted]

Account Number
[Redacted]

Confirm Payment

Do u want to submit the payment?

This screenshot shows a confirmation dialog box titled 'Confirm Payment'. It asks 'Do u want to submit the payment?' with two buttons: 'Cancel' and 'Yes'. Below the dialog is a large 'Submit Payment' button.

Figure 65: Manage Payroll (Cancel Amount)

Workshop Co

Payment Details

Choose Bank

Select...

To

Account Number

Amount (MYR)

Payment Date

Reference

Appears in recipient's statement

Invalid Payment Details
Please Check and Try again.

Submit Payment

Workshop Co

Payment Details

Choose Bank

Select...

To

Account Number

Fra...

✓

Payment Successful

Your money has been paid to the worker

Submit Payment

Figure 66: Manage Payroll (Invalid Details)

Figure 67: Manage Payroll (Payment Successful)

Workshop Co

Payment Records

Date	Amount (MYR)	Reference
1/4/2025	50.00	Engine Replacement
2/4/2025	150.00	Oil change
3/4/2025	50.00	Air-Cond service
4/4/2025	45.00	April bonus

Figure 68: View Payroll (Foreman)

Workshop Co

Payment Records

Date	Recipient	Amount (MYR)	Reference
1/4/2025	Kamal	50.00	Engine Replacement
2/4/2025	Ahmad	150.00	Oil change
3/4/2025	Khairi	50.00	Air-Cond service
4/4/2025	Kamal	45.00	April bonus

Figure 69: View Payroll (Workshop Owner)

3.5 Manage Rating (By: Nur Nabihah Fatiny Binti Ismail)

3.5.1 Use Case Diagram

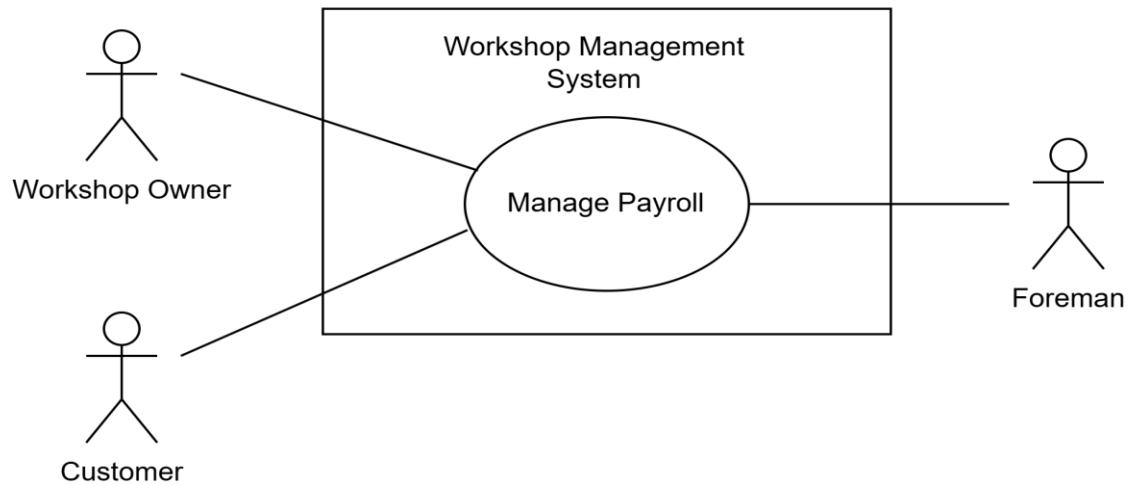


Figure 69: Use case for Manage rating

3.5.2 Use Case Description

Use Case ID	UC-07
Brief Description	This use case allows Customers to rate for Workshops service. Workshop Owner and Foreman only can view submitted rating made by customer.
Actor	Customer, Foreman (View Only), Workshop Owner (View Only)
Pre-Conditions	<ol style="list-style-type: none">1. The rating feature is available on the system.2. The Workshop service has been completed.
Basic Flow	<p>Customer</p> <p>Foreman hands on the application to the customer</p> <ol style="list-style-type: none">1. The use case starts when the Customer navigates to the Manage Rating section.2. The system displays all the customer's completed bookings.3. The customer clicks the Submit Your Rating button.

	<ol style="list-style-type: none"> 4. The system displays a rating form. 5. The user provides a rating (1-5 stars) and comments feedback. [A1: Edit Rating REQ-WMS-701] 6. The customer click submit button 7. The system updates and displays the submitted review on the Rating Page. 8. 10. The use case ends. <p>Workshop Owner & Foreman</p> <ol style="list-style-type: none"> 1. The Workshop Owner & Foreman navigates to Manage Rating section 2. The system displays rating records 3. The Workshop Owner & Foreman views all the submitted rating made by customer. 4. Use case ends.
Alternative Flow	A1: Edit Rating REQ-WMS-701 <ol style="list-style-type: none"> 1. The Customer clicks the <<Edit>> icon. 2. The Customer rerates to give feedback. 3. The system updates the modified rating 4. The use case continues with step 6 in the basic flow.
Exception Flow	-
Post Conditions	<ol style="list-style-type: none"> 1. The rating has been successfully submitted. 2. Customers can view the rating.
Rules	Workshop Owners & Foreman can only view ratings given by customers
Constraints	The system limits the number of characters in the review.

3.5.3 Sequence Diagram [SEQ-WMS-2025-701]

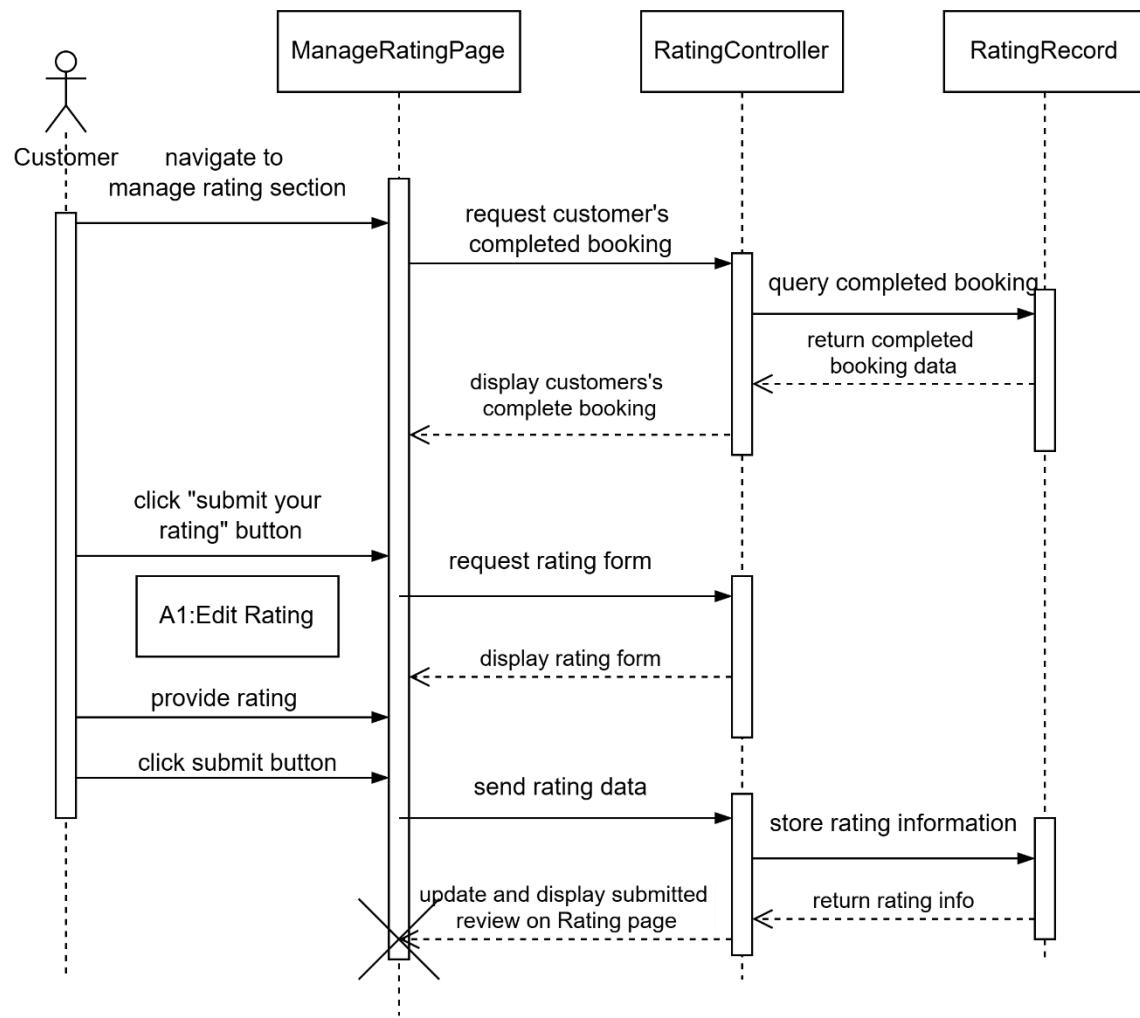


Figure 70: Manage Rating Basic Flow (Customer)

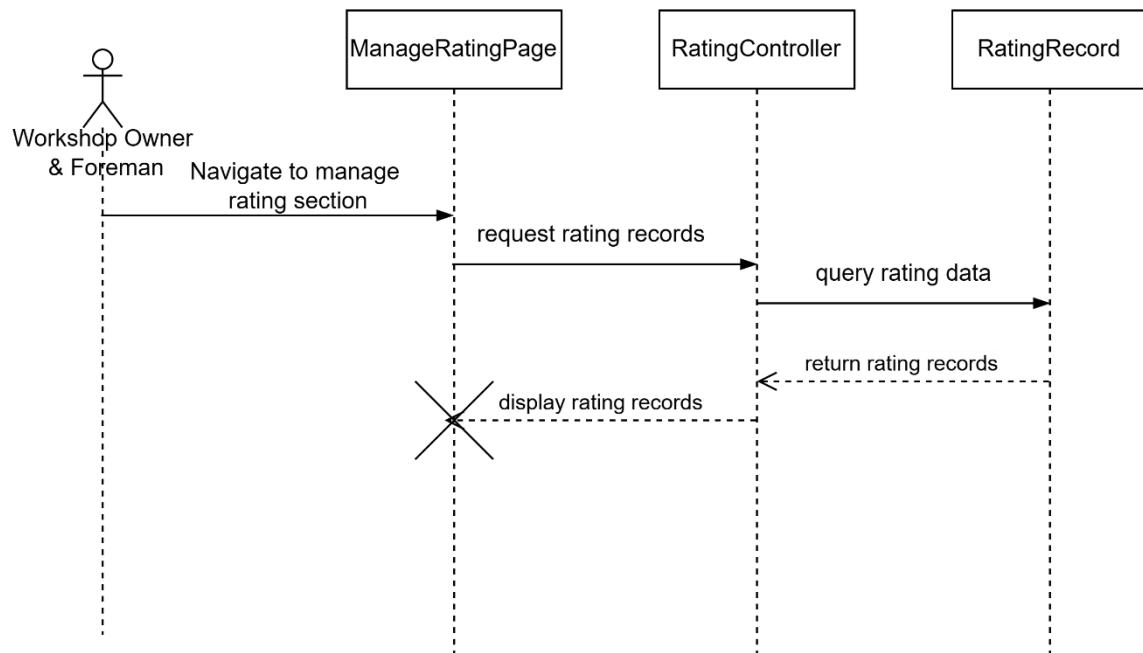


Figure 71: Manage Rating Basic Flow (Workshop Owner and Foreman)

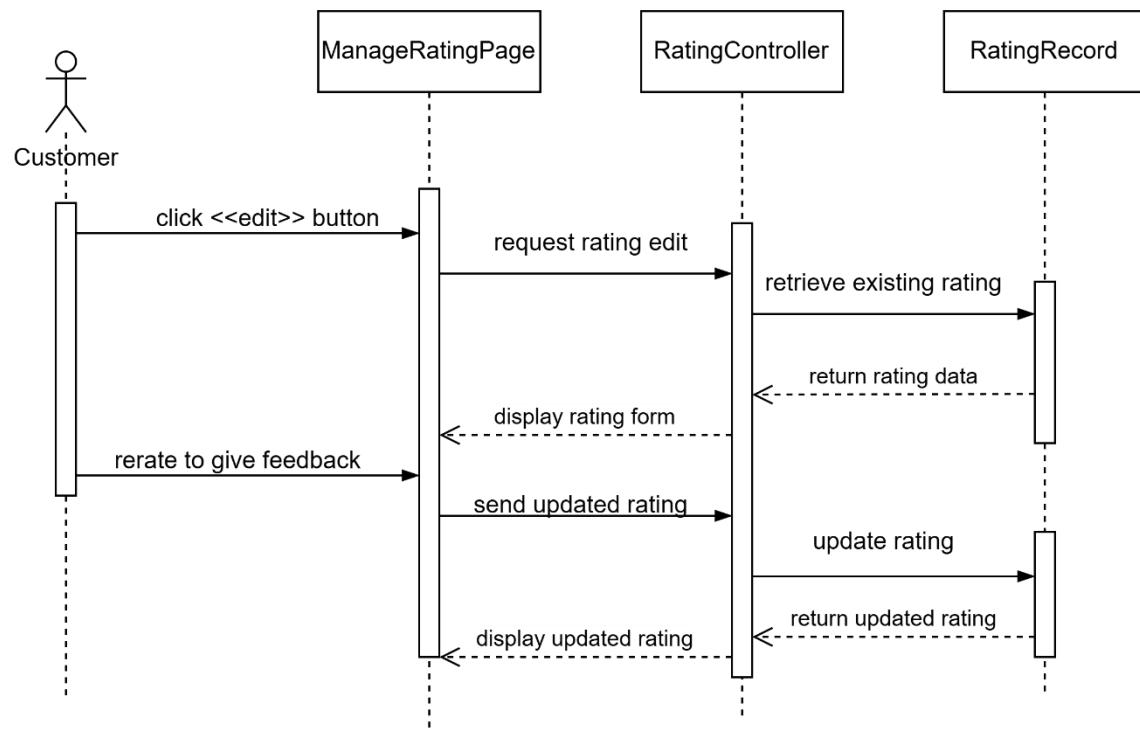


Figure 72: Alternative Flow A1: Edit Rating

3.5.4 User Interface

Workshop Co

Manage Rating

Completed Service



Workshop Co

3/4/2025

Task: Workshop Repair

Submit Your Rating

Rated



Workshop Co

2/4/2025

Task: Engine Replacement

★★★★★

Very good !

Submit Your Rating

Workshop Co

Service: Engine Replacement

Your Rating

★★★★★

Customer Name

Task

Comments

Submit

Figure 73: Manage Rating (Foreman)

Figure 74: Manage Rating Form

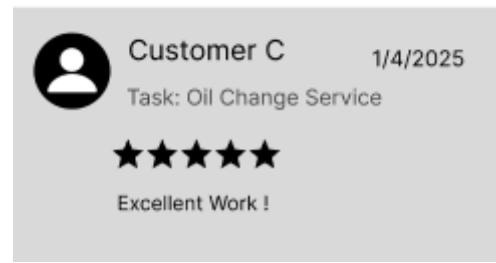
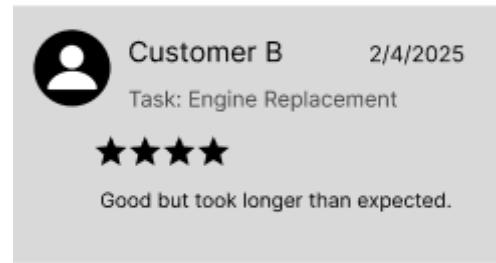
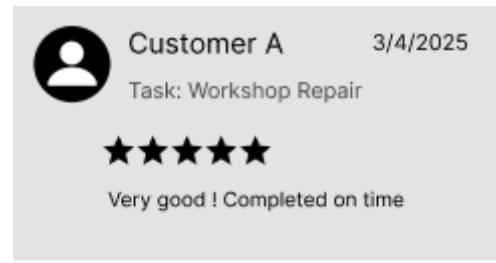


Figure 75: Manage Rating (View Workshop Owner & Foreman)

4.0 Detail Requirement Description

4.1 Acronyms and Abbreviations

Acronyms / Abbreviation	Description
-------------------------	-------------

SRS	Software Requirement Specification
WMS	Workshop Management System
UC	Use Case
REQ	Requirement within Use Case

4.2 Requirement Traceability

Requirement ID	Traceability ID	Description	Interface ID
REQ-WMS-2025-103	ReqTrac-WMS-2025-103	<<Cancel>> button if the Workshop Owner or Foreman chooses not to save profile changes.	Refer figure 11 and figure 13
REQ-WMS-2025-104	ReqTrac-WMS-2025-104	<<Change Password>> for updates the new password.	Refer figure 9
REQ-WMS-2025-201	ReqTrac-WMS-2025-201	The Workshop Owner is able to add a new inventory item by entering item name, quantity, and category.	Refer figure Add Item – Manage Shop Inventory
REQ-WMS-2025-202	ReqTrac-WMS-2025-202	If required information is missing while adding/updating an item, the system prompts the Workshop Owner to fill in the missing fields.	Refer figure Incomplete Information – Manage Shop Inventory
REQ-WMS-2025-203	ReqTrac-WMS-2025-203	The Workshop Owner can update existing inventory item details, such as stock quantity, name, or category.	Refer figure Update Item – Manage Shop Inventory
REQ-WMS-2025-204	ReqTrac-WMS-2025-204	The Workshop Owner can remove an inventory item by selecting it and clicking the delete button.	Refer figure Remove Item – Manage Shop Inventory

REQ-WMS-2025-205	ReqTrac-WMS-2025-205	The system prompts the Workshop Owner for confirmation before deleting an item; cancellation aborts deletion.	Refer figure Remove Item – Manage Shop Inventory
REQ-WMS-2025-206	ReqTrac-WMS-2025-206	The system automatically detects low stock items and displays a low stock alert.	Refer figure Remove Item – Manage Shop Inventory
REQ-WMS-2025-207	ReqTrac-WMS-2025-207	When low stock is detected, the system allows the Workshop Owner to initiate the Request Inventory process.	Refer figure Remove Item – Manage Shop Inventory & Request Item – Request Inventory
REQ-WMS-2025-208	ReqTrac-WMS-2025-208	If a system error occurs while updating, deleting, or saving inventory data, the system displays an error and logs the issue.	Refer figure System Error – Manage Shop Inventory
REQ-WMS-2025-301	ReqTrac-WMS-2025-301	If the Workshop Owner submits a request without specifying quantity or supplier, the system prompts to complete the required fields.	Refer figure Incomplete Request – Request Inventory
REQ-WMS-2025-302	ReqTrac-WMS-2025-302	If the chosen supplier is unavailable, the system notifies the Workshop Owner and prompts them to select an alternative.	Refer figure Supplier Unavailable - Request Inventory
REQ-WMS-2025-303	ReqTrac-WMS-2025-303	If a system error occurs during inventory request submission, the system displays an error message and logs the error.	Refer figure System Error – Request Inventory

REQ-WMS-2025-401	ReqTrac-WMS-2025-401	Workshop owner shall be able to add gig slots.	Refer page 56
REQ-WMS-2025-402	ReqTrac-WMS-2025-402	Workshop owner shall be able to edit gig slots.	Refer page 57
REQ-WMS-2025-403	ReqTrac-WMS-2025-403	Workshop owner shall be able to delete gig slots.	Refer page 57
REQ-WMS-2025-404	ReqTrac-WMS-2025-404	Workshop owner shall be able to approve foreman gig application.	Refer page 57
REQ-WMS-2025-405	ReqTrac-WMS-2025-405	Slots with same job description shall not exist at the same location, date and time.	Refer page 56
REQ-WMS-2025-501	ReqTrac-WMS-2025-501	Foreman shall be able to apply for gig.	Refer page 58
REQ-WMS-2025-502	ReqTrac-WMS-2025-502	Foreman shall be able to cancel their gig application at least 24 hours before the gig starts.	Refer page 59
REQ-WMS-2025-503	ReqTrac-WMS-2025-503	Slots that are fully booked shall not be available for application.	Refer page 58
REQ-WMS-2025-504	ReqTrac-WMS-2025-504	Foreman shall not be able to cancel an application within the 24 hours of a gig start.	Refer page 59
REQ-WMS-2025-601	ReqTrac-WMS-2025-601	The system displays payment details form	
REQ-WMS-2025-602	ReqTrac-WMS-2025-602	Workshop owners are able to choose a bank account, enter name, account number, amount, payment date and reference.	
REQ-WMS-2025-603	ReqTrac-WMS-2025-603	<<Submit Payment>> button. Workshop Owner	

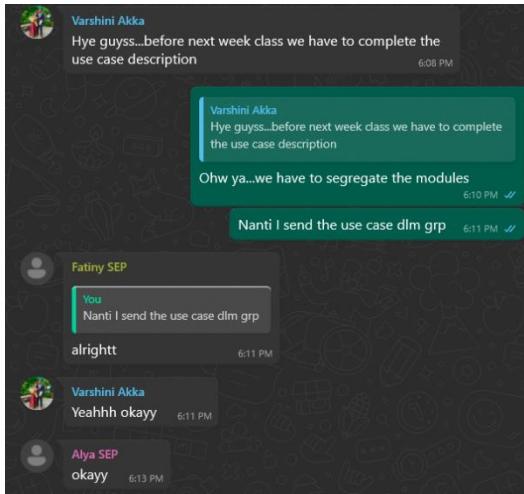
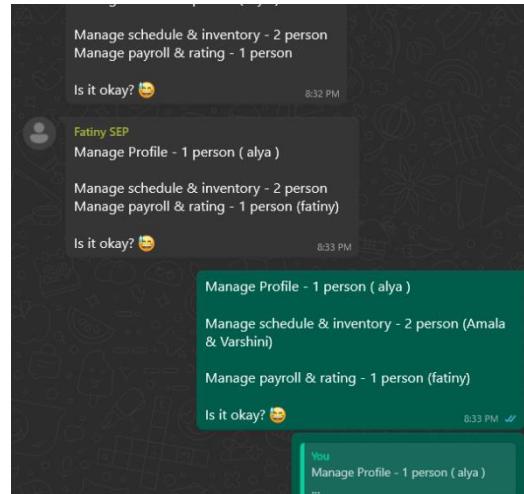
		is able to click the submit payment button to send payment to the foreman.	
REQ-WMS-2025-604	ReqTrac-WMS-2025-604	<<update>> button. Workshop Owner is able to modify payment amount.	
REQ-WMS-2025-605	ReqTrac-WMS-2025-605	<<cancel>> button. Workshop Owner is able to cancel the payment.	
REQ-WMS-2025-606	ReqTrac-WMS-2025-606	The foreman is able to view list of payment records.	
REQ-WMS-2025-701	ReqTrac-WMS-2025-701	<<Submit your rating>> button. Customers are able to click the button to rate the Workshop performance.	
REQ-WMS-2025-702	ReqTrac-WMS-2025-702	Customers can rate and comment on the feedback in the text box.	
REQ-WMS-2025-703	ReqTrac-WMS-2025-703	<<Submit>> The customers are able to click the submit button to submit rating	
REQ-WMS-2025-704	ReqTrac-WMS-2025-704	<<Edit>> button. The customers can click the edit button to edit the rating details.	

Appendix A: Daily Stand Up/ Meeting Notes

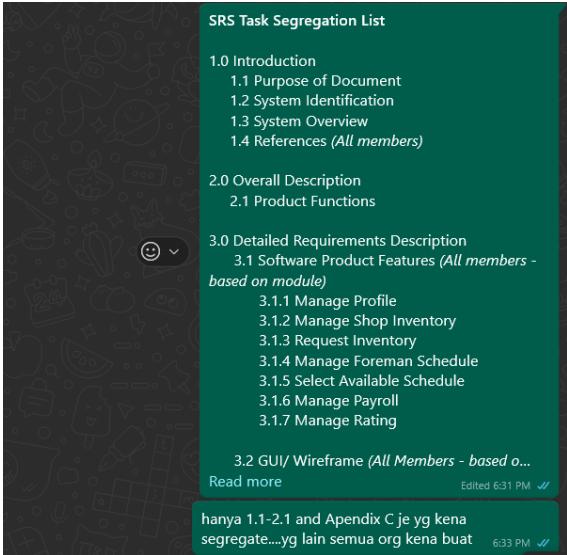
Meeting 1:

Location:	FCOM
Date:	10/3/2025
Attendees:	1. Amala Karthigayan 2. Nur Alya Syakirah Binti Nasarudin 3. Varshini Jagarajan 4. Nur Nabilah Fatiny Binti Ismail
Time:	2pm – 4pm
Agenda Items:	1. Discussed the functional requirements. 2. Created a use case diagram for the application.
Proof:	<p>The diagram illustrates the Workshop Management System's functional requirements through a use case model. It features a central boundary object labeled "Workshop Management System" containing several use cases: "Manage Profile", "Manage Foreman Schedule", "Select Available Schedule", "Manage Shop Inventory", "Request Inventory", "Manage Payroll", and "Manage Rating". External actors include "Workshop Owner", "Foreman", "Customer", and "Payroll System". Interactions are shown as directed lines connecting actors to use cases. For instance, the "Workshop Owner" interacts with "Manage Profile", "Manage Foreman Schedule", "Select Available Schedule", "Manage Shop Inventory", "Request Inventory", "Manage Payroll", and "Manage Rating". The "Foreman" interacts with "Manage Profile", "Manage Foreman Schedule", "Select Available Schedule", and "Manage Payroll". The "Customer" interacts with "Manage Profile", "Manage Shop Inventory", and "Manage Rating". The "Payroll System" interacts with "Manage Payroll". Association lines between use cases are labeled with relationships like "as included" and "as excluded".</p>

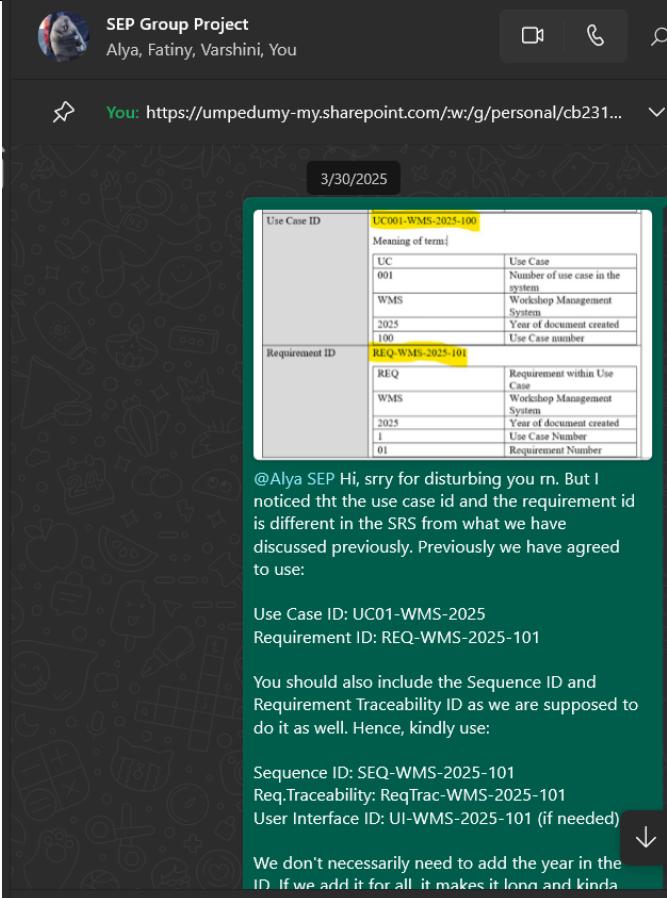
Meeting 2:

Location:	Online (via whatsapp)
Date:	11/3/2025
Attendees:	<ol style="list-style-type: none"> 1. Amala Karthigayan 2. Nur Alya Syakirah Binti Nasarudin 3. Varshini Jagarajan 4. Nur Nabihah Fatiny Binti Ismail
Time:	6pm – 6.30pm
Agenda Items:	<ol style="list-style-type: none"> 1. Segregated the modules between us. 2. Started working on the use case descriptions.
Proof:	 <p>The first WhatsApp screenshot shows a group chat with three participants: Varshini Akka, Fatiny SEP, and Alya SEP. Varshini Akka initiates the conversation by saying, "Hye guys...before next week class we have to complete the use case description". Fatiny SEP responds with, "Ohw ya...we have to segregate the modules". Alya SEP then says, "Nanti I send the use case dlm grp". The messages are timestamped at 6:08 PM, 6:10 PM, and 6:11 PM respectively.</p>  <p>The second WhatsApp screenshot shows a continuation of the group chat. Varshini Akka lists tasks: "Manage schedule & inventory - 2 person" and "Manage payroll & rating - 1 person". She asks, "Is it okay? 😊". Fatiny SEP replies with "Manage Profile - 1 person (alya)". Varshini Akka then lists her tasks: "Manage schedule & inventory - 2 person" and "Manage payroll & rating - 1 person (fatiny)". She again asks, "Is it okay? 😊". Alya SEP responds with "Manage Profile - 1 person (alya)". The messages are timestamped at 8:32 PM, 8:33 PM, and 8:33 PM respectively.</p>

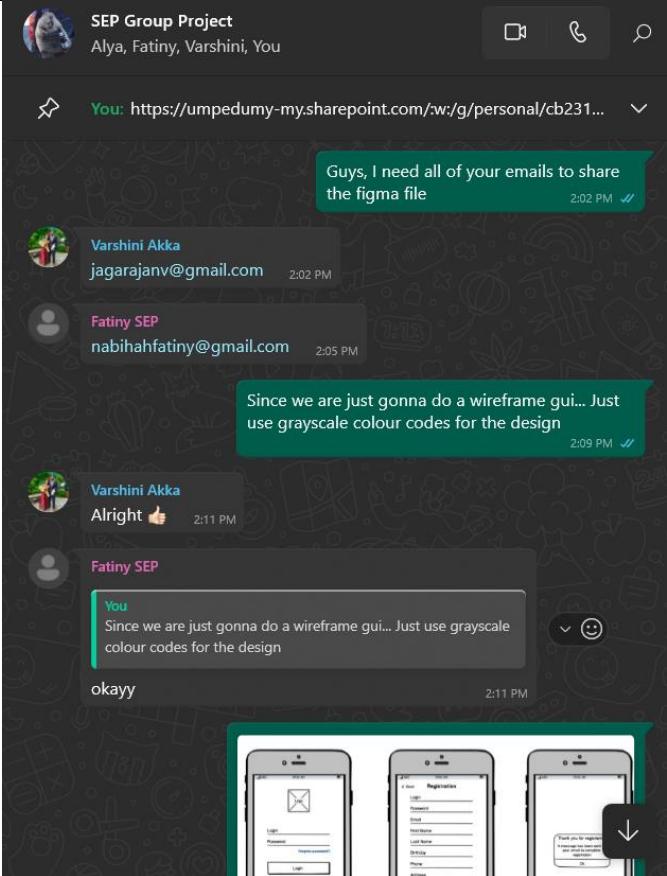
Meeting 3:

Location:	Online (via whatsapp)
Date:	23/3/2025
Attendees:	<ol style="list-style-type: none"> 1. Amala Karthigayan 2. Nur Alya Syakirah Binti Nasarudin 3. Varshini Jagarajan 4. Nur Nabihah Fatiny Binti Ismail
Time:	6.30 pm -7 pm
Agenda Items:	<ol style="list-style-type: none"> 1. Segregated the tasks for the SRS between us. 2. Started working on the SRS.
Proof:	 <p>The first part of the image shows a WhatsApp message with a document titled "SRS Task Segregation List". The document contains the following structure:</p> <ul style="list-style-type: none"> 1.0 Introduction <ul style="list-style-type: none"> 1.1 Purpose of Document 1.2 System Identification 1.3 System Overview 1.4 References (<i>All members</i>) 2.0 Overall Description <ul style="list-style-type: none"> 2.1 Product Functions 3.0 Detailed Requirements Description <ul style="list-style-type: none"> 3.1 Software Product Features (<i>All members - based on module</i>) <ul style="list-style-type: none"> 3.1.1 Manage Profile 3.1.2 Manage Shop Inventory 3.1.3 Request Inventory 3.1.4 Manage Foreman Schedule 3.1.5 Select Available Schedule 3.1.6 Manage Payroll 3.1.7 Manage Rating 3.2 GUI/ Wireframe (<i>All Members - based o...</i> <p>Below the document, there is a link "Read more" and a timestamp "Edited 6:31 PM ✓".</p> <p>The second part of the image shows a screenshot of a WhatsApp group chat. The messages are:</p> <ul style="list-style-type: none"> "usp=sharing" (timestamp: 6:33 PM ✓) "Can view this document as an example" (timestamp: 6:41 PM ✓) Alya SEP: "yeah...ok kita segregate mcm ni. 1.1 & Appendix C -seorang, 1.2 - one person, 1.3 - one person and 2.1 - one person" (timestamp: 6:42 PM) okay boleh Alya SEP: "shall we use the spinning wheel to segregate the tasks?" (timestamp: 6:42 PM ✓) boleh je Fatiny SEP: "ok wait ah" (timestamp: 6:42 PM ✓) You: "shall we use the spinning wheel to segregate the tasks?" (timestamp: 6:42 PM ✓) boleh

Meeting 4:

Location:	Online (via whatsapp)																																	
Date:	30/3/2025																																	
Attendees:	<ol style="list-style-type: none"> 1. Amala Karthigayan 2. Nur Alya Syakirah Binti Nasarudin 3. Varshini Jagarajan 4. Nur Nabihah Fatiny Binti Ismail 																																	
Time:	2.30 pm -2.50 pm																																	
Agenda Items:	<ol style="list-style-type: none"> 1. Made numbering corrections for the type of IDs. 																																	
Proof:	 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Use Case ID</th> <th>Meaning of term</th> <th>Use Case</th> </tr> </thead> <tbody> <tr> <td>UC 001</td> <td></td> <td>Number of use case in the system</td> </tr> <tr> <td>WMS</td> <td></td> <td>Workshop Management System</td> </tr> <tr> <td>2025</td> <td></td> <td>Year of document created</td> </tr> <tr> <td>100</td> <td></td> <td>Use Case number</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Requirement ID</th> <th>REQ-WMS-2025-101</th> <th>Requirement within Use Case</th> </tr> </thead> <tbody> <tr> <td>REQ</td> <td></td> <td>Requirement within Use Case</td> </tr> <tr> <td>WMS</td> <td></td> <td>Workshop Management System</td> </tr> <tr> <td>2025</td> <td></td> <td>Year of document created</td> </tr> <tr> <td>1</td> <td></td> <td>Use Case Number</td> </tr> <tr> <td>01</td> <td></td> <td>Requirement Number</td> </tr> </tbody> </table> <p>@Alya SEP Hi, sorry for disturbing you rn. But I noticed that the use case id and the requirement id is different in the SRS from what we have discussed previously. Previously we have agreed to use:</p> <p>Use Case ID: UC01-WMS-2025 Requirement ID: REQ-WMS-2025-101</p> <p>You should also include the Sequence ID and Requirement Traceability ID as we are supposed to do it as well. Hence, kindly use:</p> <p>Sequence ID: SEQ-WMS-2025-101 Req.Traceability: ReqTrac-WMS-2025-101 User Interface ID: UI-WMS-2025-101 (if needed)</p> <p>We don't necessarily need to add the year in the ID. If we add it for all, it makes it long and kinda</p>	Use Case ID	Meaning of term	Use Case	UC 001		Number of use case in the system	WMS		Workshop Management System	2025		Year of document created	100		Use Case number	Requirement ID	REQ-WMS-2025-101	Requirement within Use Case	REQ		Requirement within Use Case	WMS		Workshop Management System	2025		Year of document created	1		Use Case Number	01		Requirement Number
Use Case ID	Meaning of term	Use Case																																
UC 001		Number of use case in the system																																
WMS		Workshop Management System																																
2025		Year of document created																																
100		Use Case number																																
Requirement ID	REQ-WMS-2025-101	Requirement within Use Case																																
REQ		Requirement within Use Case																																
WMS		Workshop Management System																																
2025		Year of document created																																
1		Use Case Number																																
01		Requirement Number																																

Meeting 5:

Location:	Online (via whatsapp)
Date:	2/4/2025
Attendees:	1. Amala Karthigayan 2. Nur Alya Syakirah Binti Nasarudin 3. Varshini Jagarajan 4. Nur Nabihah Fatiny Binti Ismail
Time:	2.00 pm -2.50 pm
Agenda Items:	1. Created Figma Shared Team for wireframe generation.
Proof:	 <p>The WhatsApp screenshot shows a group chat titled "SEP Group Project" with three participants: Alya, Varshini, and You. The messages are as follows:</p> <ul style="list-style-type: none"> You: https://umpedumy-my.sharepoint.com/:w/g/personal/cb231... Varshini Akka: Guys, I need all of your emails to share the figma file Fatiny SEP: Since we are just gonna do a wireframe gui... Just use grayscale colour codes for the design Varshini Akka: Alright 👍 Fatiny SEP: Okay <p>Below the messages, there are three wireframe screenshots of mobile application screens, likely from Figma, showing registration forms and a success message.</p>