



Beauty Craft

REDEFINING YOUR BEAUTY

Integrated Salon Management System

SYSTEM REQUIREMENT SPECIFICATION

By CS group 30

Details of the Group

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1. Introduction

1.1. Purpose

This document provides the Software Requirement Specification for the system ‘Beauty Craft’ Integrated Salon Management System which illustrates the purpose and complete declaration for the development of the system. The document has been prepared before the development stage of the system to identify and predict the scope, functionalities of the final product. The scope of the system that is covered in this document is extended up to the following sub-systems.

- Reservation management
- Service management
- Salary management
- Customer and staff management
- Report management

Data related to the in-depth requirement analysis, feasibility study, system constraints, design and development strategies, and the interfaces of the system are contained in the document according to the above-identified scope.

1.2. Document Conventions

- Document - Software Requirement Specification
- System – Beauty Craft Integrated Management System
- Stakeholder – Any person with an interest in the system who is not a developer.
- Development team – Any person who is intended to develop the system.
- Users – The general public who uses the system [Stakeholder or development team]. A user can be a Customer, Service Provider, Receptionist, Manager, and Owner.
- Staff members – Any person working in the salon. They are Service Provider, Receptionist, Manager, and Owner
- Functionalities – What is being integrated with the system to provide upscaled services to the users.
- Database – The collection of all the information monitored by the system.

1.3. Intended Audience and Reading Suggestions

This document is intended to be referred by the development team and the stakeholders who are the users of the system. All the users are recommended to refer to the document before going through the system because it gives a full declaration about the system with procedures that define how the system should be used by each user. By referring the Chapter 2 [Feasibility Study], all the users can get a basic idea of the level of the system that is feasible to be built. The required technical knowledge levels for different users to handle the system are shown under the 2.4 Operational Feasibility.

1.4. Domain Description

Beauty salons are one of the most popular personal care services, with a never-ending demand. Thus, when the business expands the organizational work in a salon such as managing reservations, administration of staff & clients, and handling financial work becomes inefficient and time-consuming.

With the high competitiveness in the industry customers always tend to stick with the salons that are up to date with the latest trends and provide more user-friendly customer service. Hence managing customers and services efficiently is always important to maintain customers satisfaction and loyalty.

1.5. Current System and its limitations

In most of the salons, the following issues have been identified as the common causes of customer dissatisfaction as well as the disappointment of the staff about the working environment.

- When a large number of customers are present, the time of the customer's turn is uncertain and can lead to a considerable waiting time.
- Some customers have a preferred stylist by whom they wish to get their service done. If that employee is not available there is a possibility of the customer leaving without getting the service.
- Placing reservations over the phone is limited to working hours and the also customer has to try multiple attempts if the receptionist is busy with another call.
- When placing an appointment over the phone, manually identifying the most convenient available time slot is time-consuming and stressful to the receptionist.
- At the end of the month, it is a very tedious task to manually go through all the service logs of each employee to calculate the salaries.

All the above issues can be properly addressed with the use of a salon management system. But it's not the case in reality. Most salons do not use an automated management system. Even though some salons have their websites they only provide information on services and contact details. The following have been identified as the reasons for the unwillingness of most salon managements to utilize such a system.

- Doesn't provide all the required functionalities.
- Cannot manage both online and visiting customers simultaneously.
- Do not have a simple and user-friendly interface that could be easily handled by the salon staff.
- The frequently fluctuating prices and changing services cannot be easily modified in the system.

Based on the above-identified issues it has been discovered that there's a requirement for a well-designed user-friendly Salon Management System which is not fulfilled by currently available systems. As a solution, we are proposing an integrated salon management system that caters to the requirements of customers, receptionists, employees, managers, owners, and the general public who wish to get information about the salon and its services.

1.6. Objectives & Goals

The main goal of the proposed system is to maintain a positive interaction with customers and the salon staff by managing all the organizational work within the system requiring minimum user effort and time.

It is achieved by implementing the following key features.

- Allow 24/7 online service reservations and minimize the customer waiting time inside the salon to get the service.
- Ease the reservation scheduling process for the receptionist by replacing the manual method with an automated system.
- Provide a platform for employees to get to know their schedule and workload ahead of time.
- Allow tracking of the progress of the employees and business by reports generated within the system.

The main objective of developing the proposed system is to maintain a positive interaction with customers and the salon staff. To achieve the proposed end-result the system shall provide the following functionalities.

The reservation process is made efficient by managing all the reservation records within the system itself. Customers can add, edit, cancel reservations on their own using the online reservation system. Receptionists also can add, edit, cancel reservations for walk-in customers. The reservations can be placed by selecting the date & time, required service then lastly the service provider relevant to the selected service based on their preference and availability.

Each employee is provided with a discrete interface where they get a personalized view of assigned reservations and their status. Leave requests and reservation recall requests can be sent using the same provided interface.

Salary payments of each employee are calculated by the system itself. The owner can set the constraints such as the number of leaves allowed, fixed pay rate, and the percentage commission for service. At the end of each month, the salary payment report is generated by the system without any manual effort.

Tracking the progress of employees and the overall operations is made easy by providing analytical data and reports by analyzing the service records. Employee ratings and feedbacks are collected from the customer for the service they received.

By providing the above functionalities from the system it's targeted to increase the number of services provided within a given period and by that maximize the profit.

1.7. Assumptions, Constraints & Limitations

1.7.1. Assumptions

- All users have a basic level of computer literacy and knowledge of the English language to operate the system.
- System interfaces are self-navigable by the users without prior experience.
- The salon staff and the customers have computers/devices with a network connection to operate the system.
- There is only one owner for the salon and one admin for the system.
- All the reservations which are not confirmed by the customer will be confirmed by the receptionist through telephone calls one day before the reservation date.
- The receptionist closes reservations by marking as completed if the service is received by the customer, or as a no-show if the customer hasn't received the service.
- The opening time of the salon is from 9.00 a.m. to 8.00 p.m.

1.7.2. Constraints

- Placing a reservation for a service can be performed depending on the available service providers and available resources within the selected time.
- Reservations can be placed only by the receptionist and the registered customers.
- Staff accounts can be created only by the owner or admin.
- Salary is calculated for a month by considering the period from the 25th day of the previous month to the 24th day of the specific month.
- The system should be hardcoded since no frameworks are allowed.
- The system is limited to a web-based application.

1.7.3. Limitations

- Once confirmed customers cannot perform any modifications to reservations. In a situation where a customer requires to make changes after the confirmation, a request has to be made to the receptionist.
- The system does not provide online payments for the reservations. Payment is collected once the customer receives the service from the service provider.
- Computers/devices with an internet connection will be required to use the system.

2. Feasibility Study

This section focuses on the feasibility study conducted to determine the overall feasibility of the project. The conclusion of the study is very important in determining whether the product is achievable or not. To get better clarity about the product, the feasibility study was carried under the following key points and each subsection justifies the relevant point.

1. Technical Feasibility
2. Economic Feasibility
3. Legal and Ethical Feasibility
4. Operational Feasibility
5. Scheduling Feasibility

2.1. Technical Feasibility

This subsection focuses on analyzing the availability and capabilities of hardware and software to determine if technical requirements can be met.

Technologies

- HTML, CSS, and JavaScript as the front-end development technologies. The features and functionalities of these technologies can provide the required structure, styles, and dynamic behavior required by the front-end of the system.
- PHP as the back-end technology. Since the proposed system is completely web-based, PHP is well suited for the requirement. Scalability and easy maintenance are added advantages.
- MySQL as the DBMS technology. It provides all the functionality required for the relational database of the proposed system.

All the above technologies are freely and readily available.

Applications and tools

- Visual Studio Code, Wamp Server, MS Office, GitHub, Trello, Figma, Draw.io will be used and also these applications and tools are available for the development team.
- A separate SMS API will be used to send the notifications from the system when required.

Hardware

- All the hardware equipment required for the development is already available.

Therefore, it is clear that all the above-mentioned technologies, software, tools, and hardware can easily access and supply the technical requirements of the proposed system.

Hence the project is technically feasible to develop.

2.2. Economic Feasibility

This subsection is intended to analyze the cost-effectiveness of the project and to assess whether our system can be implemented.

- Apart from the SMS API all the applications and tools which are used for development purposes are free and open-source.
- Even though there will be charges for the SMS API which will be used in the system, it will be at a very low cost.
- As the development team will use their computers and other hardware components there is no additional hardware cost.

Since there are no considerable expenses the total cost of the system is bearable. Hence the system is **economically feasible**.

2.3. Legal and Ethical Feasibility

Legal and Ethical Feasibility refers that the project is analyzed and confirmed the legal and ethical requirements. This includes analyzing barriers of legal and ethical implementation of the project, data protection acts, etc.

- Customers who use the system cannot access the personal data of any other customer or staff members within the system.
- The system maintains a separate note for each customer. Which can be used to keep track of important information of customers such as allergy records. Service providers shall update the note after each reservation if necessary.
- The service records collected and stored related to customers will not be exposed to a third party under any circumstances.
- All the staff member accounts are created, managed, and modified by the owner. Therefore, any other member cannot gain access to operations that are not assigned to them by the owner.
- Salary records of the staff members can be accessed and managed only by the owner.

The whole system will be developed using free, and open-source resources and any external code fragments will be acknowledged and give credits to their rightful owner.

From the customers, the name and the contact number will only be collected. The data will be used only for verification and communication purposes. From the staff members the name, contact number, NIC no, bank account number will be collected for specific purposes such as identification, communication, salary payment.

Although Sri Lanka does not have any consolidated and/or specific laws on data protection yet, in early 2021, the LDD released a final draft version of an Act to Provide for the Regulation of Processing of Personal Data (2021) ('the Draft Bill') The Draft Bill is currently awaiting final approval. According to sections 9 and 10 of the draft bills collecting and retaining data for specific purposes with prior knowledge is possible. Hence according to the draft, there are no restrictions on establishing the system following the rules and regulations relating to data protection.

Since there are neither legal nor ethical conflicts, the project is legally and ethically feasible.

2.4. Operational Feasibility

This subsection refers to the analysis of how well the proposed solution solves the problems and satisfies the requirements identified in the requirements gathering phase.

Considering the issues that were identified the proposed system provides multiple subsystems addressing all functionalities required by the salon staff and the customers.

- Reservation management is the main factor catered within the system. Managing reservations can be done by both customer and receptionist using the provided interfaces.
- Employee data and service records are handled from the system. Salary calculation automated to provide a salary report at the end of each month from the system.
- Service data managed through the system and employees related to each service are also managed. The frequent price changes of services and managing services can be done with minimum effort of the manager.
- Report generation provides an overall progress analysis of the salon to the management staff of the salon.
- Resources allocation is managed through the system based on the reservations and availability of the service providers, and also all quantities of the resources can be managed through the system.
- To operate the system requires a minimum knowledge level in IT and English. Hence the system is manageable by the staff of the salon and operable by the customers to place reservations
- To operate the system receptionist, manager and owner are expected to have computers while employees and customers are expected to use their smartphones to access the system.

According to the above facts the system caters to all the requirements identified. And there is no major requirement to operate the system. Hence the system is Operational Feasible.

2.5. Scheduling Feasibility

Schedule feasibility is the degree to which a deadline for a strategy plan project or process is realistic and achievable.

The development of the “Beauty Craft” integrated salon management system should be completed within 10 months. We have decided to follow the iterative waterfall methodology for the development process.

The requirement gathering phase is completed and all the requirements of the system have been identified.

Since there are 4 members in the development team, the available time duration is adequate. Hence scheduling the project is feasible.

Task	May Week 3	May Week 4	June Week 1	June Week 2	June Week 3	June Week 4	July Week 1	July Week 2	July Week 3	July Week 4	August Week 1	August Week 2	August Week 3	September Week 1	September Week 2	September Week 3	September Week 4	October Week 1	October Week 2	October Week 3	October Week 4	November Week 1	November Week 2	November Week 3	December Week 1	December Week 2	January Week 1	January Week 2	January Week 3	January Week 4	February Week 1	February Week 2	February Week 3	February Week 4	March Week 1	March Week 2	March Week 3	April Week 1	April Week 2	April Week 3	April Week 4
Selection of a project																																									
Requirement gathering																																									
Requirement analysis																																									
Feasibility Study																																									
Use Case, Activity, Component Diagrams and Flowcharts																																									
Proposal Documentation																																									
SRS Documentation																																									
System Architecture																																									
UI Design																																									
Backend Design																																									
Documentation																																									
Implementation																																									
System testing																																									
Deployment																																									

Figure 1: Project Timeline

3. Requirements

3.1. Stakeholders

There are six users that we have identified, who'll be interacting with the system at different user levels.

- | | |
|-------------------------|--|
| Customer | - Customers are the external stakeholders who expect to get services through the salon. |
| Receptionist | - Receptionist deals with customers and the staff. |
| Service provider | - Service provider provides services to the customers. |
| Manager | - Manager is responsible for managing services and packages and analyzing parts of the salon. |
| Owner | - Owner handles all the operations related to the staff, and amounts and rates of the salon functionalities. |
| System admin | - System admin is involved in the technical effect of the system. |

3.2. Use Cases and Use Case Diagram

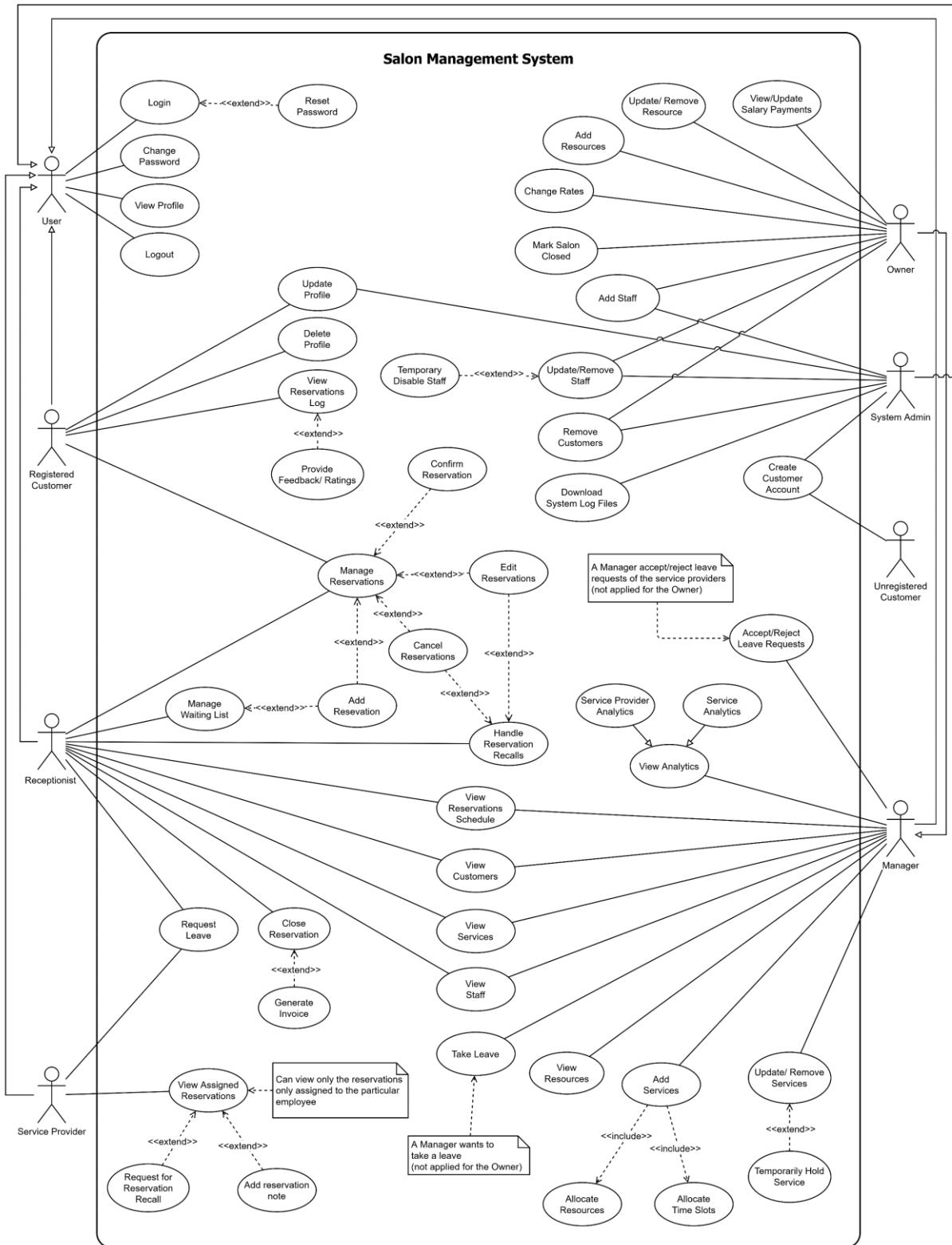


Figure 2: Use Case Diagram

Link to the Use Case Diagram: https://bit.ly/Use_Case_Diagram_CS30

Use Case	Create Customer Account
Use Case ID	1
Actors	Unregistered Customer, System Admin
Description	Unregistered customers and System Admin can create a customer account.
Precondition	Customer is not registered in the system before.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Register” option. 2. Enter registration details. 3. Verify contact number. 4. System updates the database and notifies.
Post Condition	Customer Account created.
Alternative Flows	<p>Entered invalid data</p> <ul style="list-style-type: none"> • System displays an error • Customer can enter data again <p>Incorrect contact no</p> <ul style="list-style-type: none"> • PIN is not received • Customer can enter data again <p>Incorrect PIN</p> <ul style="list-style-type: none"> • PIN verification fails <p>Customer can resend PIN again</p>

Table 1: Create Customer Account (Use Case Description)

Use Case	Login
Use Case ID	2
Actors	Registered customer, Service provider, Manager, Owner, Receptionist, System Admin
Description	All users excluding unregistered customers can log in to the system.
Precondition	Users should be registered in the system before login.
Main Flow	<ol style="list-style-type: none"> 1. Users enter their contact numbers and password. 2. The system validates the contact number and password. 3. System display “Login successfully”
Post Condition	The user is logged into the system.
Alternative Flows	<p>Provided contact number or password is invalid</p> <ul style="list-style-type: none"> • An error message is displayed. • Users can re-enter credentials or reset passwords. • Passwords must be reset when the user enters an invalid password four times consecutively.

Table 2: Login (Use Case Description)

Use Case	Change Password
Use Case ID	3
Actors	Registered Customer, Employee, Manager, Owner, Receptionist, System Admin
Description	User can change their current password.
Precondition	Logged in through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. The user clicks the “Change password” option. 2. System asks for the current password. 3. The user enters the current password. 4. The system validates the current password. 5. System asks for the new password two times. 6. The system validates and updates the new password. 7. System display “Password Changed Successfully”
Post Condition	Password has been changed.
Alternative Flows	<p>Entered current password is invalid.</p> <ul style="list-style-type: none"> • The system displays an error message, and cannot change the password. The user can try again. <p>If the two entries of the new password are not identical an error message is displayed.</p> <ul style="list-style-type: none"> • The user/System Admin can re-enter the new password.

Table 3: Change Password (Use Case Description)

Use Case	View profile
Use Case ID	4
Actors	Registered Customer, Employee, Manager, Owner, Receptionist, System Admin
Description	User/System Admin can view their profiles and check their profile details.
Precondition	Logged in through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. User/System Admin click the “profile” option. 2. System displays their profile details.
Post Condition	None
Alternative Flows	None

Table 4: View Profile (Use Case Description)

Use Case	Logout
Use Case ID	5
Actors	Registered Customer, Employee, Manager, Owner, Receptionist, System Admin
Description	User/System admin can log out their accounts.
Precondition	Logged in through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. User/System admin can click the “Logout” option. 2. User/System Admin logout by the system. 3. Display “Log out successfully”
Post Condition	User/System admin is log out by the system.
Alternative Flows	None

Table 5: Logout (Use Case Description)

Use Case	Update Profile
Use Case ID	6
Actors	Registered Customer, System Admin
Description	Already registered customer/System Admin can update profile details which were entered in the initial registration process
Precondition	Already registered as a customer in the system. Logged in as a registered customer or System Admin.
Main Flow	<ol style="list-style-type: none"> 1. Reg. Customer/Admin selects the “Update Profile” option. 2. Reg. Customer/Admin makes necessary changes and proceeds. 3. System validates the changes. 4. If the contact number is changed it is verified by an SMS pin. 5. System updates the database and notifies.
Post Condition	Profile data has been updated.
Alternative Flows	Data entered are invalid <ul style="list-style-type: none"> • Error message is displayed. Reg. Customer/system Admin can re-enter or cancel.

Table 6: Update Profile (Use Case Description)

Use Case	Delete Profile
Use Case ID	7
Actors	Registered Customer
Description	Registered customer can delete their profile
Precondition	Customer is logged in to the system.
Main Flow	<ol style="list-style-type: none"> 1. Reg. Customer selects the “Delete Profile” option. 2. System gets a confirmation from the Reg. Customer. 3. System checks whether the customer does not have any upcoming reservations. 4. If not, Reg. Customer’s password is verified. 5. System updates the database and notifies.
Post Condition	Reg. Customer’s profile is removed.
Alternative Flows	<p>The Customer has upcoming reservations.</p> <ul style="list-style-type: none"> • Error is displayed and the process is aborted. <p>Entered invalid password.</p> <ul style="list-style-type: none"> • Error message is displayed. <p>Reg. Customer can re-enter or cancel.</p>

Table 7: Delete Profile (Use Case Description)

Use Case	View Reservations Log
Use Case ID	8
Actors	Registered Customer
Description	Registered customer can view their history of reservations.
Precondition	Customer is logged in to the system.
Main Flow	<ol style="list-style-type: none"> 1. Reg. Customer selects the “Reservations Log” option. 2. System retrieves and displays Reg. Customer’s reservations.
Post Condition	List of reservations is displayed.
Alternative Flows	<p>Provide feedback to the salon.</p> <p>Provide ratings for the employee.</p>

Table 8: View Reservations Log (Use Case Description)

Use Case	Add Reservation
Use Case ID	9
Actors	Registered Customer, Unregistered Customer, Receptionist
Description	A reservation is placed to get a service for the customer.
Precondition	Logged in as a receptionist/ a registered customer or, Not logged in. (Placing reservation as an unregistered customer)
Main Flow	<ol style="list-style-type: none"> 1. Select the “Add Reservation” option. 2. <ol style="list-style-type: none"> 1. Receptionist enter customer details or, 2. Registered Customer proceeds or, 3. Unregistered Customer proceeds 3. Select Category and Service. 4. Select an employee if required. 5. Select Date and Time. 6. If an unregistered customer contact number is verified 7. <ol style="list-style-type: none"> 1. If the slot is already reserved, customers can join the waiting list. 2. Else the reservation is placed 8. Confirm & proceed.
Post Condition	Reservation is placed and notifications are sent to the customer and employee.
Alternative Flows	If unregistered customers contact no is invalid <ul style="list-style-type: none"> • An error message is displayed and can re-enter again.

Table 9: Add Reservation (Use Case Description)

Use Case	Edit Reservation
Use Case ID	10
Actors	Registered Customer, Unregistered Customer, Receptionist
Description	A previously placed reservation can be edited
Precondition	Logged in as a receptionist/ a registered customer or, Not logged in. (Editing the reservation as an unregistered customer)
Main Flow	<p>Either of the following 3 can be the followed set of activities.</p> <ol style="list-style-type: none"> 1. <ol style="list-style-type: none"> 1. Receptionist selects a reservation. 2. Make changes in the reservation. 3. Confirm and proceed. 2. <ol style="list-style-type: none"> 1. Reg. Customer selects the reservation from his/her reservation list. 2. Make changes in the reservation. 3. Confirm and proceed. 3. <ol style="list-style-type: none"> 1. Unregistered customer enters ReservationID and contact number to access the reservation. 2. Make changes in the reservation. 3. Confirm and proceed.
Post Condition	The reservation is modified. Employee is informed about the changes.
Alternative Flows	<p>If unregistered customer enters invalid ReservationID and contact no</p> <p>An error message is displayed and can re-enter again.</p>

Table 10: Edit Reservation (Use Case Description)

Use Case	Cancel Reservation
Use Case ID	11
Actors	Registered Customer, Unregistered Customer, Receptionist
Description	A previously placed reservation is getting cancelled.
Precondition	Logged in as a receptionist/ a registered customer or, Not logged in. (Cancelling reservation as a unregistered customer)
Main Flow	<p>Either of the following 3 can be the followed set of activities.</p> <ol style="list-style-type: none"> 1. <ol style="list-style-type: none"> 1. Receptionist selects a reservation. 2. Mark cancellation. 3. Confirm and proceed. 2. <ol style="list-style-type: none"> 1. Reg. Customer selects the reservation from his/her reservation list. 2. Mark cancellation. 3. Confirm and proceed. 3. <ol style="list-style-type: none"> 1. Unregistered customer enters ReservationID and contact number to access the reservation. 2. Mark cancellation. 3. Confirm and proceed.
Post Condition	The reservation is cancelled. The Employee is informed about the cancellation.
Alternative Flows	If unregistered customer enters invalid ReservationID and contact no. <ul style="list-style-type: none"> • An error message is displayed and can re-enter again.

Table 11: Cancel Reservation (Use Case Description)

Use Case	Confirm Reservation
Use Case ID	12
Actors	Registered Customer, Unregistered Customer, Receptionist
Description	Confirmation of reservations which have been placed more than 7 days prior.
Precondition	Logged in as a receptionist or Customer has received the confirmation link
Main Flow	<p>Either of the following 3 can be the followed set of activities.</p> <ol style="list-style-type: none"> 1. <ol style="list-style-type: none"> 1. Receptionist selects a reservation. 2. Customer is contacted. 3. Reservation is marked as confirmed or cancelled. 2. <ol style="list-style-type: none"> 1. Customer contacts the receptionist. 2. Receptionist selects the reservation. 3. Reservation is marked as confirmed or cancelled. 3. <ol style="list-style-type: none"> 1. Customer selects the received link and visits the site. 2. Reservation is marked, confirmed or cancelled by the customer.
Post Condition	Reservation is marked, confirmed or cancelled. The employee is informed if cancelled.
Alternative Flows	None

Table 12: Confirm Reservation (Use Case Description)

Use Case	View Assigned Reservations
Use Case ID	13
Actors	Service provider
Description	Service provider can check both upcoming and past reservation details.
Precondition	Logged in through a service provider account.
Main Flow	<ul style="list-style-type: none"> i. Service provider click the “Reservations” option. ii. Service provider select the date. iii. System displays the reservation list. iv. Service provider can select one for check the In-detail view of the reservation or service provider can Cancel the process. v. Then service provider can recall that reservation, edit the reservation note or cancel the process. <ul style="list-style-type: none"> a. If recall <ul style="list-style-type: none"> i. Service provider select “Recall” option. ii. System checks the remaining days. iii. If remaining days are greater than two, Employee can mention the reason. iv. System record request details and display “Request sent successfully” b. If edit reservation note <ul style="list-style-type: none"> i. Service provider add or edit the note. ii. Service provider mark as save. iii. System saves the changes and displays reservation note added successfully.
Post Condition	None
Alternative Flows	When recall the reservation is in less than two days Display “Cannot remove the reservation”

Table 13: View Upcoming Reservations (Use Case Description)

Use Case	Request a leave
Use Case ID	14
Actors	Service provider, Receptionist
Description	Service provider and receptionists can request leave through the system.
Precondition	Logged in through an Employee or Receptionist Account.
Main Flow	<ol style="list-style-type: none"> 1. Service provider/receptionists select “Request leave option”. 2. Service provider/receptionists select a date. 3. If a service provider, the system checks the ability to request that day. 4. If it is possible to request leave, Service provider/Receptionists can mention the reason. 5. System record leaves details. 6. System display “Leave request successfully”
Post Condition	Leave request is sent.
Alternative Flows	<p>Requested day already has reservations.</p> <ul style="list-style-type: none"> • Cannot request that day

Table 14: Request a Leave (Use Case Description)

Use Case	Manage Waiting List
Use Case ID	15
Actors	Receptionist
Description	Waiting list managed by contacting the customer and adding a new reservation or cancelling the entry.
Precondition	Logged in as a receptionist A waiting list entry is required to manage.
Main Flow	<ol style="list-style-type: none"> 1. Receptionist selects a waiting list entry. 2. System retrieves and displays waiting list entry details 3. Customer is contacted by the receptionist. <ol style="list-style-type: none"> 1. New Reservation is placed, or. 2. Waiting list entry is removed, based on the customer's decision.
Post Condition	Waiting list entry is managed
Alternative Flows	None

Table 15: Manage Waiting List (Use Case Description)

Use Case	Handle Reservation Recall
Use Case ID	16
Actors	Receptionist
Description	Edit or Cancel Reservations depending on the customers response, if the assigned employee has requested for a recall.
Precondition	Logged in as a receptionist. A Reservation Recall has been requested.
Main Flow	<ol style="list-style-type: none"> 1. Receptionist selects a request. 2. System displays the in-detail request made by the employee. 3. Receptionist decides whether to consider. 4. If considered, the receptionist contacts the customer to check his/her decision. 5. Receptionist proceeds with the reservation edit or cancellation.
Post Condition	Recall request response is informed to the employee.
Alternative Flows	<ul style="list-style-type: none"> • Request is rejected if the receptionist decides not to consider.

Table 16: Handle Reservation Recall (Use Case Description)

Use Case	Close Reservation
Use Case ID	17
Actors	Receptionist
Description	Reservation is marked as closed. It can be completed or incomplete.
Precondition	Logged in as a receptionist A Reservation is required to be closed.
Main Flow	<ol style="list-style-type: none"> 1. Receptionist selects the reservation. 2. System retrieves and displays the reservation information 3. <ol style="list-style-type: none"> 1. Mark as incomplete. 2. Mark as complete. 4. Invoice is generated if marked as complete.
Post Condition	Reservation is closed and marked as completed or incomplete.
Alternative Flows	None

Table 17: Close Reservation (Use Case Description)

Use Case	View Reservations
Use Case ID	18
Actors	Manager/Owner/Receptionist
Description	Manager/Owner/Receptionist can view reservation schedule of the system
Precondition	Logged into the system through Manager/Owner/Receptionist account
Main Flow	<ol style="list-style-type: none"> 1. Select the “Reservations” option. 2. Display all reservations details. 3. Search and select a Reservations. 4. Display the reservation details.
Post Condition	None
Alternative Flows	None

Table 18: View Reservations (Use Case Description)

Use Case	View Customer
Use Case ID	19
Actors	Manager/Owner/Receptionist
Description	Manager/Owner/Receptionist can view customers of the system
Precondition	Logged into the system through Manager/Owner/Receptionist account
Main Flow	<ol style="list-style-type: none"> 1. Select the “Customers” option. 2. Display all customer details 3. Search and select the customer. 4. Display customer details.
Post Condition	None
Alternative Flows	None

Table 19: View Customer (Use Case Description)

Use Case	View Staff
Use Case ID	20
Actors	Manager/Owner/Receptionist
Description	Manager/Owner/Receptionist can view the staff of the system
Precondition	Logged into the system through Manager/Owner/Receptionist account
Main Flow	<ol style="list-style-type: none"> 1. Select the “Staff Members” option. 2. Display all staff details. 3. Search and select the staff member. 4. Display staff member details.
Post Condition	None
Alternative Flows	None

Table 20: View Staff (Use Case Description)

Use Case	View Services
Use Case ID	21
Actors	Manager/Owner/Receptionist
Description	Manager/Owner/Receptionist can view services of the system
Precondition	Logged into the system through Manager/Owner/Receptionist account
Main Flow	<ol style="list-style-type: none"> 1. Select the “Services” option. 2. Display all service details. 3. Search and select the service. 4. Display service details.
Post Condition	None
Alternative Flows	None

Table 21: View Services (Use Case Description)

Use Case	View Resources
Use Case ID	22
Actors	Manager/Owner
Description	Manager/Owner can view resources of the system
Precondition	Logged into the system through Manager/Owner/Receptionist account
Main Flow	<ol style="list-style-type: none"> 1. Select the “View Resources” option. 2. Display all resource details. 3. Search and select the resource. 4. Display resource records.
Post Condition	None
Alternative Flows	None

Table 22: View Resources (Use Case Description)

Use Case	Accept/Reject Leave Requests
Use Case ID	23
Actors	Manager
Description	Manager can grant leave of the Receptionist
Precondition	Receptionist has requested a leave. The Manager should log into the system through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Leave Request” option. 2. Display requested leaves. 3. Select a leave request. 4. Display taken and remaining leave records. 5. Manager accept or reject the leave and mark as an accepted or rejected leave. 6. Update leave records.
Post Condition	Update the leave records of the system.
Alternative Flows	None

Table 23: Accept/Reject Leave Request (Use Case Description)

Use Case	View Analysis
Use Case ID	24
Actors	Manager/Owner
Description	Manager/Owner can view analytical details of the system.
Precondition	Manager/Owner should log into the system through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Analytics” option. 2. Select “Overall analysis” or “Service analysis” or “Employee analysis” option. 3. Display the analytical details.
Post Condition	None
Alternative Flows	None

Table 24: View Analysis (Use Case Description)

Use Case	View Overall Analysis Details Parent 26
Use Case ID	25
Actors	Manager/Owner
Description	Manager/Owner can view overall analytical details of the system.
Precondition	Manager/Owner should log into the system through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Overall Analysis” option. 2. Display overall analytical details of the system.
Post Condition	None
Alternative Flows	None

Table 25: View Overall Analysis Details Parent 26 (Use Case Description)

Use Case	View Service Analysis Details Parent 26
Use Case ID	26
Actors	Manager/Owner
Description	Manager/Owner can view analytical details of the services.
Precondition	Manager/Owner should log into the system through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Service Analysis” option. 2. Select the service and date range. 3. Display details regarding the service.
Post Condition	None
Alternative Flows	None

Table 26: View Service Analysis Details Parent 26 (Use Case Description)

Use Case	View Employee Analysis Details Parent 26
Use Case ID	27
Actors	Manager/Owner
Description	Manager/Owner can view analytical details of the employees.
Precondition	Manager/Owner should log into the system through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Employee Analysis” option. 2. Select the employee, service and date range. 3. Display the details regarding the employee.
Post Condition	None
Alternative Flows	None

Table 27: View Employee Analysis Details Parent 26

Use Case	Add Services
Use Case ID	28
Actors	Manager/Owner
Description	Manager/Owner can add services to the system
Precondition	Logged into the system through Manager/Owner account
Main Flow	<ol style="list-style-type: none"> 1. Select the “New Service” option. 2. Add service name, type, price. 3. Select employees. 4. Add durations, resources and quantity to each slot and intervals. 5. Validate entered data. 6. Add the service to the system.
Post Condition	New service is added to the system.
Alternative Flows	Invalid details are added <ul style="list-style-type: none"> • Display an error message • Give a chance to reenter the details.

Table 28: Add Services (Use Case Description)

Use Case	Update/Remove Services
Use Case ID	29
Actors	Manager/Owner
Description	Manager/Owner can update, hold, disable and remove services of the system
Precondition	Logged into the system through Manager/Owner account
Main Flow	<ol style="list-style-type: none"> 1. Select the “Services” option. 2. Select the service. 3. If the manager/owner wants to Update the service. <ol style="list-style-type: none"> 1. Update the selected service details. 2. Validate updated details. 3. Update the system. 4. Else. <ol style="list-style-type: none"> 1. If the manager/owner wants to Hold the service. <ol style="list-style-type: none"> 1. Select “Hold” option. 2. If the manager/owner wants to Delete the service <ol style="list-style-type: none"> 1. Select “Delete” option 3. Confirm and proceed. 5. Update database.
Post Condition	Update the system after update.
Alternative Flows	<p>Invalid modification is done</p> <ul style="list-style-type: none"> • Display an error message • Give a chance to update the details.

Table 29: Update/Remove Services (Use Case Description)

Use Case	Take Leave
Use Case ID	30
Actors	Manager
Description	Manager can take leaves from the system
Precondition	Manager wants to take a leave. The Manager/Owner should log into the system through their accounts.
Main Flow	<ol style="list-style-type: none"> 1. Select the “Take Leave” option. 2. Display leaves records. 3. If Employee has got leaves more than the limit <ol style="list-style-type: none"> 1. Display “Leave limit has exceeded” 4. Else Employee has got leaves less than the limit <ol style="list-style-type: none"> 1. Display no of remaining leaves 5. Select the date. 6. If the leave limit of that date is exceeded <ol style="list-style-type: none"> 1. Display “Leave limit has exceeded for the date” 7. Else the leave limit of that date is not exceeded <ol style="list-style-type: none"> 1. Mark as a leave. 2. Update the no of leaves.
Post Condition	Update the leave records in the system.
Alternative Flows	None

Table 30: Take Leave (Use Case Description)

Use Case	Add staff
Use Case ID	31
Actors	Owner, System Admin
Description	Adding new staff members
Precondition	Logged into the system as owner or System Admin.
Main Flow	<ol style="list-style-type: none"> 1. Select “Add staff” option. 2. Enter staff details and type. 3. Add Staff. 4. Issue the Staff-Id and password.
Post Condition	New staff members were added successfully.
Alternative Flows	Entered invalid data <ul style="list-style-type: none"> • Display an error message • Can enter again

Table 31: Add Staff (Use Case Description)

Use Case	Update/Remove/Disable Staff
Use Case ID	32
Actors	Owner, System Admin
Description	Update staff members' details, remove staff members, Disable staff members.
Precondition	Logged into the system as owner or System Admin
Main Flow	<ol style="list-style-type: none"> 1. Select “Update/Remove/Disable Staff members”. 2. Search and select the staff member. 3. If updating, <ol style="list-style-type: none"> 3.1 Make changes. 3.2 The system validates changes. 3.3 System updates database. 4. Else if removing, <ol style="list-style-type: none"> 1.1 If the staff member is a Service provider <ol style="list-style-type: none"> 1.1.1 If the service provider has an upcoming reservation denied the request to delete. 1.1.2 Else remove the service provider. 1.2 Else remove the staff member. 5. Else if Disable <ol style="list-style-type: none"> 5.1. Disable the staff member
Post Condition	Updated/Removed staff successfully
Alternative Flows	If there are pending works reject the delete request

Table 32: Update/Remove/Disable Staff (Use Case Description)

Use Case	Remove Customer
Use Case ID	33
Actors	Owner, System Admin
Description	Owner and System Admin can remove or view customers.
Precondition	Logged into the system as owner or System Admin.
Main Flow	<ol style="list-style-type: none"> 1. Select the Remove Customer option. 2. Search & select the customer. 3. Check whether the customer has upcoming reservations. 4. If the customer has an upcoming reservation denied the request to delete the customer. 5. Else delete the customer.
Post Condition	Deleted or viewed the customer.
Alternative Flows	Entered invalid data <ul style="list-style-type: none"> • Customer deleting/ viewing failed • Re-enter the details

Table 33: Remove Staff (Use Case Description)

Use Case	View/Update Salary Payments
Use Case ID	34
Actors	Owner
Description	Generating salary reports of the employees
Precondition	Logged into the system as the owner
Main Flow	<ol style="list-style-type: none"> 1. Select the “View/Update Salary Payment” option. 2. The owner can view the last generated salary report. 3. The owner can update salary payment logs and view an in-detailed salary statement.
Post Condition	Viewed/Updated monthly salary reports.
Alternative Flows	None

Table 34: View/Update Salary Payments (Use Case Description)

Use Case	Add Resources
Use Case ID	35
Actors	Owner
Description	Add resources to the salon
Precondition	Logged into the system as the owner
Main Flow	<ol style="list-style-type: none"> 1. Select the “Add resources” option 2. Enter resource details name and quantity 3. Add resource
Post Condition	Resource added successfully
Alternative Flows	None

Table 35: Add Resources (Use Case Description)

Use Case	Update/Remove Resources
Use Case ID	36
Actors	Owner
Description	Update resources or Remove resources from salon
Precondition	Logged into the system as the owner
Main Flow	<ol style="list-style-type: none"> 1. Select the Resource 2. If updating <ol style="list-style-type: none"> 2.1 Update resource details 2.2 Update resource 3. If removing <ol style="list-style-type: none"> 1. Remove resource
Post Condition	Resource added successfully
Alternative Flows	None

Table 36: Update/Remove Resources (Use Case Description)

Use Case	Change Rates
Use Case ID	37
Actors	Owner
Description	Change the salary rates, leave rates.
Precondition	Logged into the system as the owner
Main Flow	<ol style="list-style-type: none"> 1. Select the “change rate” option. 2. Select the rate to change. 3. Change the rates. 4. Update.
Post Condition	Changed rates successfully
Alternative Flows	Input incorrect rates <ul style="list-style-type: none"> • Cancel the current process • Reenter details

Table 37: Change Rates (Use Case Description)

Use Case	Salon Close
Use Case ID	38
Actors	Owner
Description	Close the salon
Precondition	Log in
Main Flow	<ol style="list-style-type: none"> 1. Select the close salon option. 2. Select the date. 3. The owner can cancel the decision by considering the number of reservations or depending on any other reasons. 4. The owner can postpone the date or close the salon and recall the already placed appointments on that date.
Post Condition	The salon closed for a specific date.
Alternative Flows	Regarding the number of appointments on that period cancel or postpone the closing date.

Table 38: Salon Close (Use Case Description)

Use Case	View System Logs
Use Case ID	39
Actors	System Admin
Description	System Admin can check system logs.
Precondition	Logged into the system as System Admin.
Main Flow	<ol style="list-style-type: none"> 1. Select the “View System Log” option. 2. Display System logs
Post Condition	None
Alternative Flows	None

Table 39: View System Logs (Use Case Description)

3.3. Functional Requirements

Under the functional requirement Analysis, the following functionalities have been recognized regarding the operations that each actor performs using the system. Each functional requirement is stated under-identified actors of the system.

All Users (excluding unregistered customers)

- Should be able to log in and reset their password.
- Should be able to log out for their accounts.
- Shall be able to change password.
- Shall be able to view profile.

Unregistered customer

- Unregistered customers should be able to experience the process of reservation until place a reservation. when place a reservation unregistered customers should have to register.

Registered customer

- Should be able to place reservations.
- Should be able to edit, cancel, confirm their reservations.
- Shall be able to join the waiting list if their preferred time slot is already reserved.
- Shall be able to update, and delete their profiles.
- Shall be able to view reservation logs and provide feedback and ratings.

Receptionist

- Should be able to add reservations to walk-in customers.
- Should be able to edit, cancel and confirm reservations.
- Should be able to close reservations.
- Should be able to manage the waiting list.
- Shall be able to request leaves.
- Shall be able to handle reservation recalls by the service provider.
- Shall be able to view reservation schedule, customers, services, packages, and staff.

Service provider

- Should be able to view upcoming reservations.
- Should be able to request for reservation recall
- Shall be able to view service log and add reservation notes for each reservation.
- Shall be able to request leaves.

Manager

- Should be able to add services to the system.
- Shall be able to view, update or remove services.
- Shall be able to view reservation schedule.
- Shall be able to view staff members and customers of the system
- Shall be able to accept or reject leave requests of the staff members.
- Shall be able to take leaves under some restrictions.
- Shall be able to view employee-based and services-based reports to analyze the progress of the salon.

Owner

The owner shall be able to perform all operations relevant to the manager, excluding take leaves. In addition to them,

- Should be able to add, update, disable and remove staff members to the system.
- Shall be able to remove customers from the system.
- Shall be able to view salary reports and view in detail salary statements person-wise.
- Should be able to change amounts and rates related to all functionalities.
- Shall be able to close the salon.
- Shall be able to maintain resources log of the salon.
- Shall be able to add, update and remove resources.

System admin

- Shall be able to create and remove user accounts of the system.
- Shall be able to download system logs files.

3.4. Quality Attributes

Followings are the identified quality attributes of the system that decided to be achieved through the system accordingly.

Usability

The system shall be able to give a high level of user-friendliness to navigate it easily by the general public without requiring a high level of knowledge about the system process.

- The system will provide minimal, understandable and clear, user-friendly interfaces for all the users. So, it will be easy to view and understand the process without any confusion.

Source	User
Stimulus	Use the system for make reservations, add services, add staff, etc.
Artifact	Runtime
Environment	System
Response	Provide minimal, understandable and clear, user-friendly interfaces
Response measure	User satisfaction

Table 40: Usability Concrete scenario 1(Quality Attributes)

- Confirmation and popup massages will also provide a clear understanding of the action that users perform within the system.

Source	User
Stimulus	Use the system for make reservations, add services, add staff, etc.
Artifact	Runtime
Environment	System
Response	Provide confirmation and popup massages
Response measure	Provide a clear understanding of the action

Table 41: Usability Concrete scenario 2(Quality Attributes)

- Also, the system will be provided better usability on different devices since it will be designed with responsive User Interfaces.

Source	User
Stimulus	Use the system on different devices
Artifact	Runtime
Environment	System
Response	Provided better usability
Response measure	User satisfaction

Table 42: Usability Concrete scenario 3(Quality Attributes)

Availability

The system shall be able to use with fewer interruptions. So, it will be available and ready to carry out tasks whenever the user needs it regardless of the location and working hours. To achieve that,

- The system will be done exception handlings against faults that occur by unexpected behaviors and popup error messages on such events. The functionality will be available 99% of time.

Source	System
Stimulus	Unexpected behaviors
Artifact	Processing
Environment	CRUD operations in the system
Response	Done exception handlings against faults and popup error messages
Response measure	Available 99% of time within the system

Table 43: Availability Concrete scenario 1(Quality Attributes)

- Also, in an event of failure, the system shall be able to identify faults and recover quickly, since there will be maintained a system log and popup error messages on such events.

Source	System
Stimulus	Faults and unexpected behaviors
Artifact	Processing
Environment	Normal operations
Response	Maintained a system log and popup error messages
Response measure	Available 99% of time within the system

Table 44: Availability Concrete scenario 2(Quality Attributes)

Performance

The system shall be able to maintain a high performance to respond to the events without any significant delay.

- Optimized scheduling algorithms and inbuild functions will improve the efficiency of responses within the system.

Source	Optimized scheduling algorithms and inbuild functions
Stimulus	All operations within the system
Artifact	System
Environment	Normal
Response	Improve the efficiency of responses
Response measure	Within 20 secs

Table 45: Performance Concrete scenario 1(Quality Attributes)

- The database shall be normalized up to a specific level to reduce data redundancy. Therefore, the system can optimize the storage space and improve the efficiency of data retrievals.

Source	Database
Stimulus	Data retrievals
Artifact	System
Environment	Normal
Response	Reduce data redundancy, optimize the storage space and improve the efficiency
Response measure	Within 1 min

Table 46: Performance Concrete scenario 2(Quality Attributes)

Security

The system will ensure the security of the data collected by the users and it will be designed against unexpected behaviors that effected to the data collection within the system.

- Unauthorized access and operations within the system will be restricted since it will be designed into a proper hierarchy of different user levels. Therefore, all the user logins will be authenticated via the login system.

Source	Unknown person
Stimulus	Unauthorized access and operations
Artifact	System
Environment	Online
Response	All the user logins will be authenticated via the login system
Response measure	All the user logins

Table 47: Security Concrete scenario 1(Quality Attributes)

- The passwords requested from the users will be stored using an encryption method to secure them.

Source	Users
Stimulus	Registering to the system
Artifact	System
Environment	Online
Response	Passwords requested from the users will be stored using an encryption method
Response measure	All the user registration

Table 48: Security Concrete scenario 2(Quality Attributes)

- In an event of system failure, the system can also detect every user's login and operational details since it will maintain a system log.

Source	Admin/ Owner
Stimulus	Event of system failure
Artifact	System
Environment	Online
Response	Detect every user's login and operational details
Response measure	Within 2 min

Table 49: Security Concrete scenario 3(Quality Attributes)

Modifiability

The system will be highly maintainable and flexible to done modifications and updates whenever it needs, with a minimum level of cost, effort, and risk.

- The system will be designed as components and it will be minimized the inter-dependencies of the system. Therefore, updating and adding new functionalities/components to the system can be done with fewer modifications.

Source	Developer
Stimulus	Updating and adding new functionalities/ components to the system
Artifact	Code
Environment	Runtime
Response	Highly maintainable and flexible to done modifications with minimum level of cost, effort, and risk
Response measure	Not affected to the other components

Table 50: Modifiability Concrete scenario 1(Quality Attributes)

4. Proposed System Architecture

4.1. Component Diagram

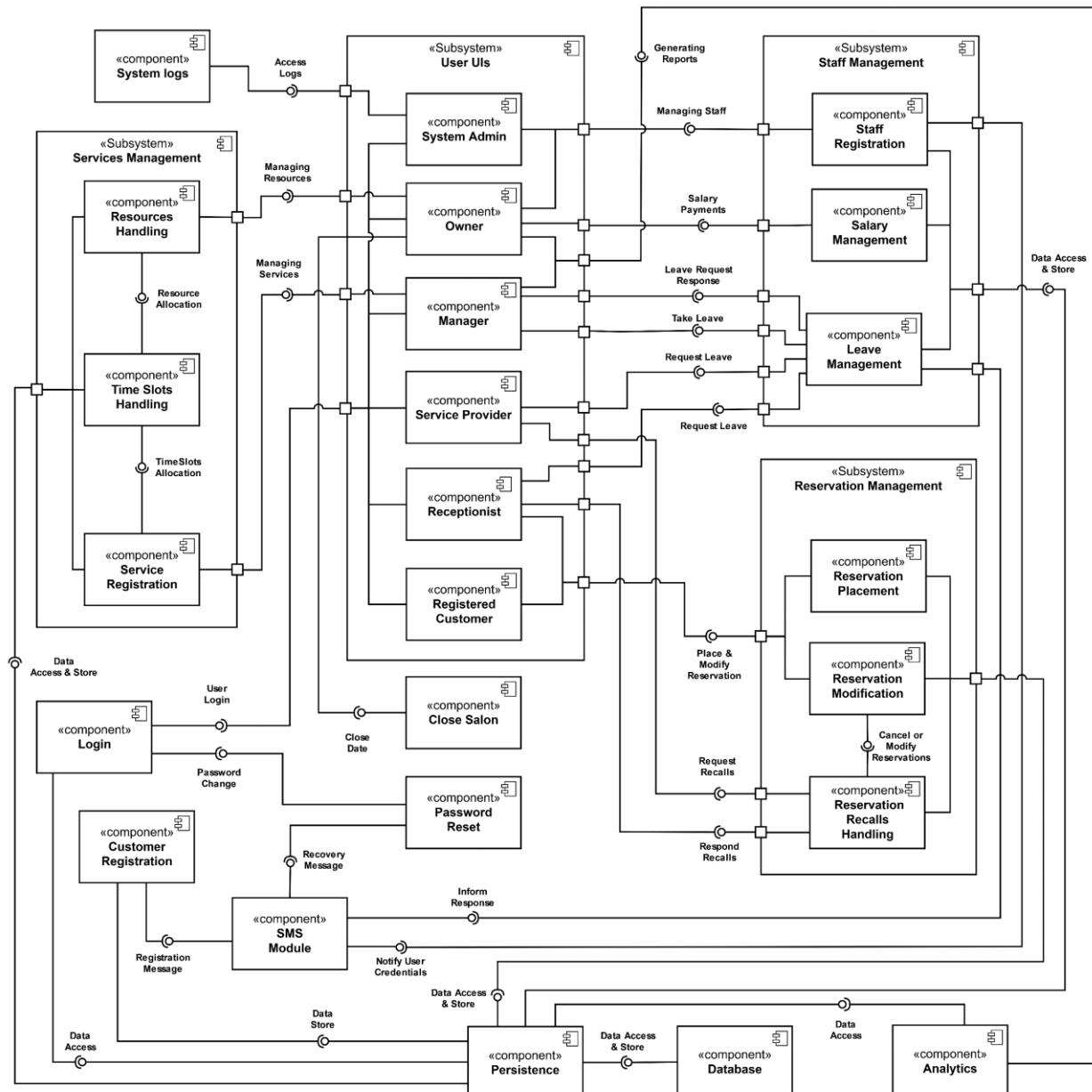
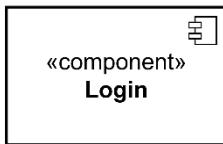


Figure 3: Component Diagram

Link to the Component Diagram: https://bit.ly/Component_Diagram_CS30

4.2. Component Descriptions



Login component is responsible for authenticating the user login credentials (contact number and password) entered by the user. After verification user is redirected to the relevant user interface or provide error messages if the authentication fails.



Password Reset component is responsible for handling password reset process when a user forgets password or requiring to change password. When changing password verification is done using the current password. If user selects forgot password option a pin is generated and sent to the mobile number. Through that verification is completed and password change is allowed.



Customer Registration component handles customer registration process by prompting to enter details. Account details are validated and duplicate contact numbers are restricted by the component. Once registration process is completed a user account for the customer is created.



Registered Customer component provides access to the customers to reservation placement, modification, cancellation, confirmation functionalities. In addition, modification of customer profile details, providing access to reservation history.



Receptionist component provides access to all the operations for the receptionist to manage reservations. In addition, accessing reservation recall requests, invoices handling, requesting leaves is done through this component.



Service Provider component provides details and access to more information for the assigned reservations of the particular service provider and provides access to send recall requests, take leaves, add customer notes.



Reservation Placement component involves in placing reservations. It prompts customer or receptionist to enter date, time, service & service provider. When data is entered it checks the salon opened status, service providers availability and resources availability. If any of the predefined criteria is fails error is displayed. Or else data is passed to place the reservation.



Reservation Modification component provides functionalities to modify previously placed reservations. It checks the possibility of modification by considering reservation's confirmation status and proceeds if modifications are allowed.

«component» 
**Reservation
Recalls
Handling**

Reservation Recalls Handling component enables service providers to send recall requests with a note mentioning the reason for the assigned reservations. Then it provides receptionists the access to these requests and respond to them.

«component» 
Manager

Manager component provides access to the manager for the operations of adding and managing services and handling leave requests. In addition, this component provides access to view data related to services, customers and staff members. It also provides access to in depth analytical data using the separate analytics component.

«component» 
**Service
Registration**

Service Registration component handles registration process of new services and managing them. It prompts to enter basic details of the service and add time slots using the time slots handling component and allocate resources using the resources handling component.

«component» 
**Time Slots
Handling**

Time Slots Handling component provides functionalities to handle time slots data when adding new services and intervals in between time slots. Required resources for each time slot get allocated using the resources handling component.

«component» 
**Resources
Handling**

Resources Handling component is responsible for adding and managing resources. In addition, it provides functionalities to allocate resources for time slots of the services from the available overall counts of resources. Each time slot gets allocated with separate counts of resources.

«component» 
**Leave
Management**

Leave Management component collects leave requests of all service providers and receptionists. It also provides validation required for leave requests. Accept or reject response to each requests is given by the managers using this component.

«component» 
Analytics

Analytics component provides in-depth analytical data related to progress of the salon. It includes analytical data of both services and service providers. Different levels of data filtering are also provided for the data by the component.

«component» 
**SMS
Module**

SMS Module component is responsible for sending all notification messages to the customers and staff members. New reservation notifications, cancellation notifications are some of them.

«component» 
Owner

Owner component provides access to all the operations for the owner to manage staff members and their salaries. It provides access to calculated salaries and previous payment logs. Closing salon, removing customer functionalities are accessed through this component.



Staff Registration component is prompts owner to add staff information and select member type. It creates a separate user account for each staff member with the registration. Modification to the staff details is also carries out within this component.



Salary Management component is responsible for calculating salaries of all the staff members. It considers all the leaves taken. In addition, service providers salary is calculated by considering the services provided. This component also provides functionalities to keep track of paid/ unpaid status of the salaries.



Close Salon component is enables owner to mark closed dates of the salon. It validates the closing with already placed reservations and allows to send recall requests if reservations exist on a particular date.



Database component represents the database connected to the system which store data related to all the operations provided by the system.



Persistence component is responsible of connecting the system with database. It acts as the intermediary layer between the system and the database. It contains the logic of storing data passed and retrieving data requested by the other components.



System Admin component enables the admin to create user account with any access level. Also is provides functionalities to the admin to download system log files of the system



System Log component responsible for keeping track of all the important events of the system such as user account creation, deletions, password resets, service modifications, reservation cancelations etc.

5. System Design

5.1. Class Diagram

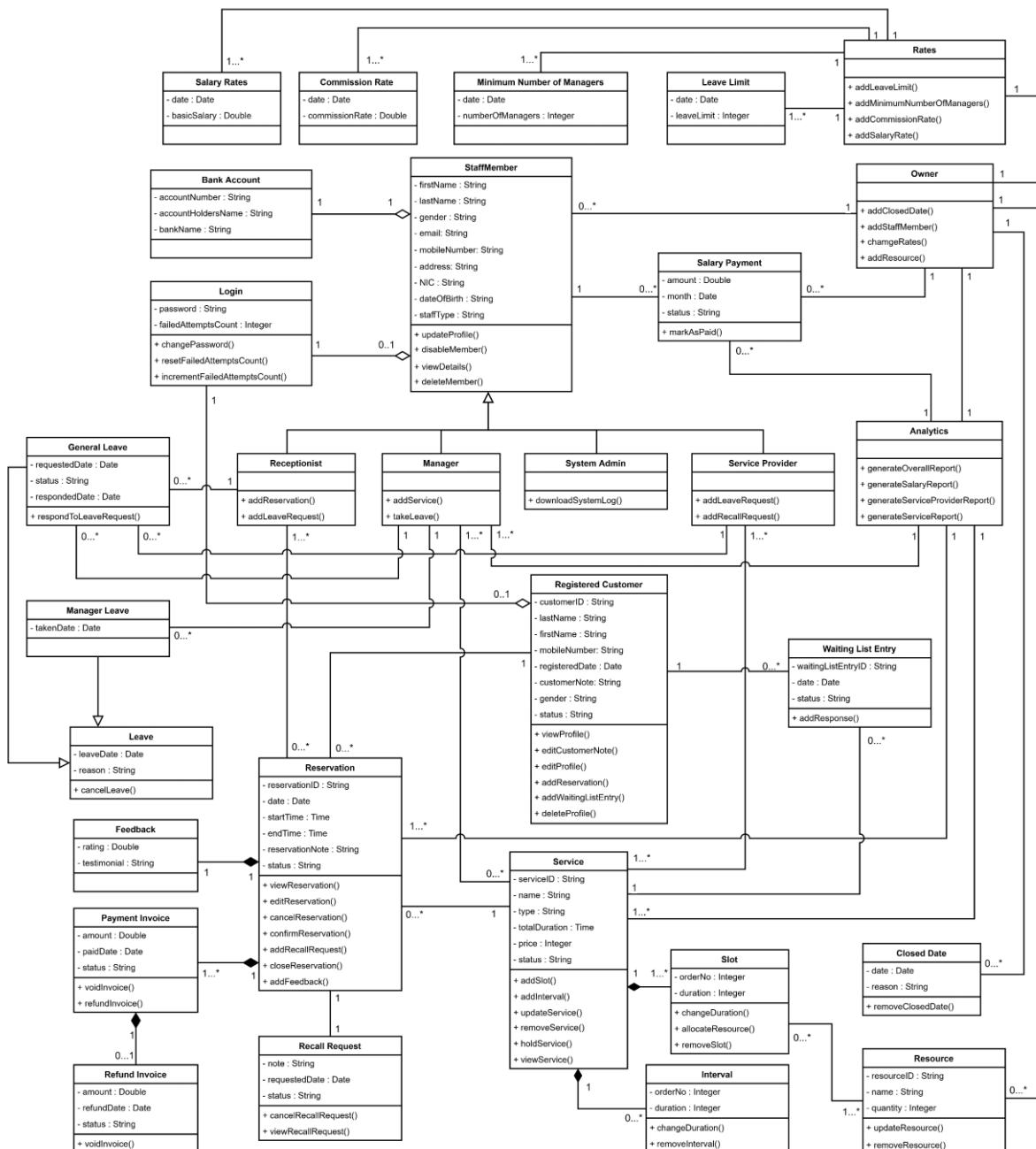


Figure 4: Class Diagram

Link to the Class Diagram: https://bit.ly/Class_Diagram_CS30

5.2. ER Diagram

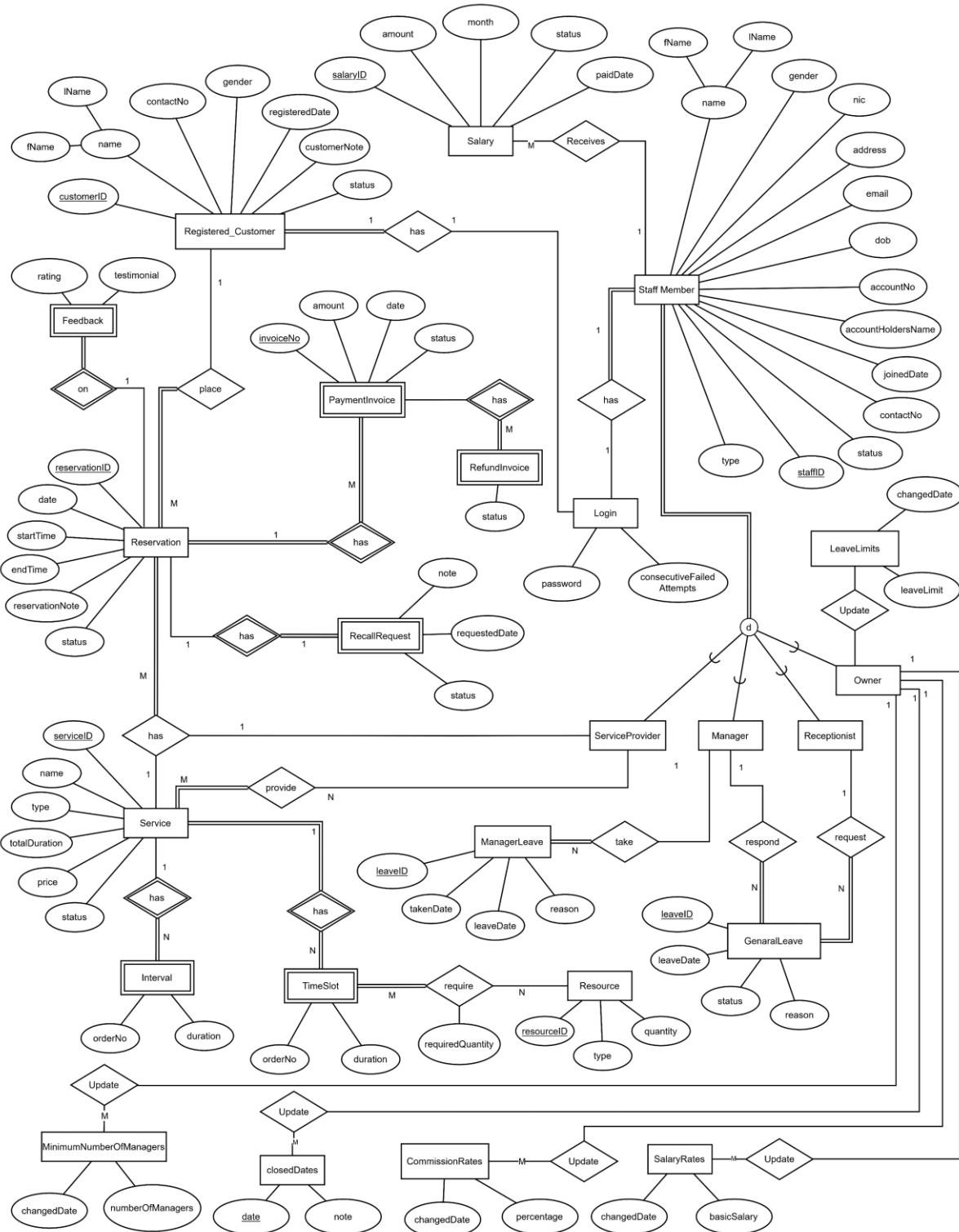


Figure 5: ER Diagram

Link to the ER Diagram: https://bit.ly/ER_Diagram_CS30

5.3. Sequence Diagrams

Link to Sequence Diagrams: https://bit.ly/Sequence_Diagrams_CS30

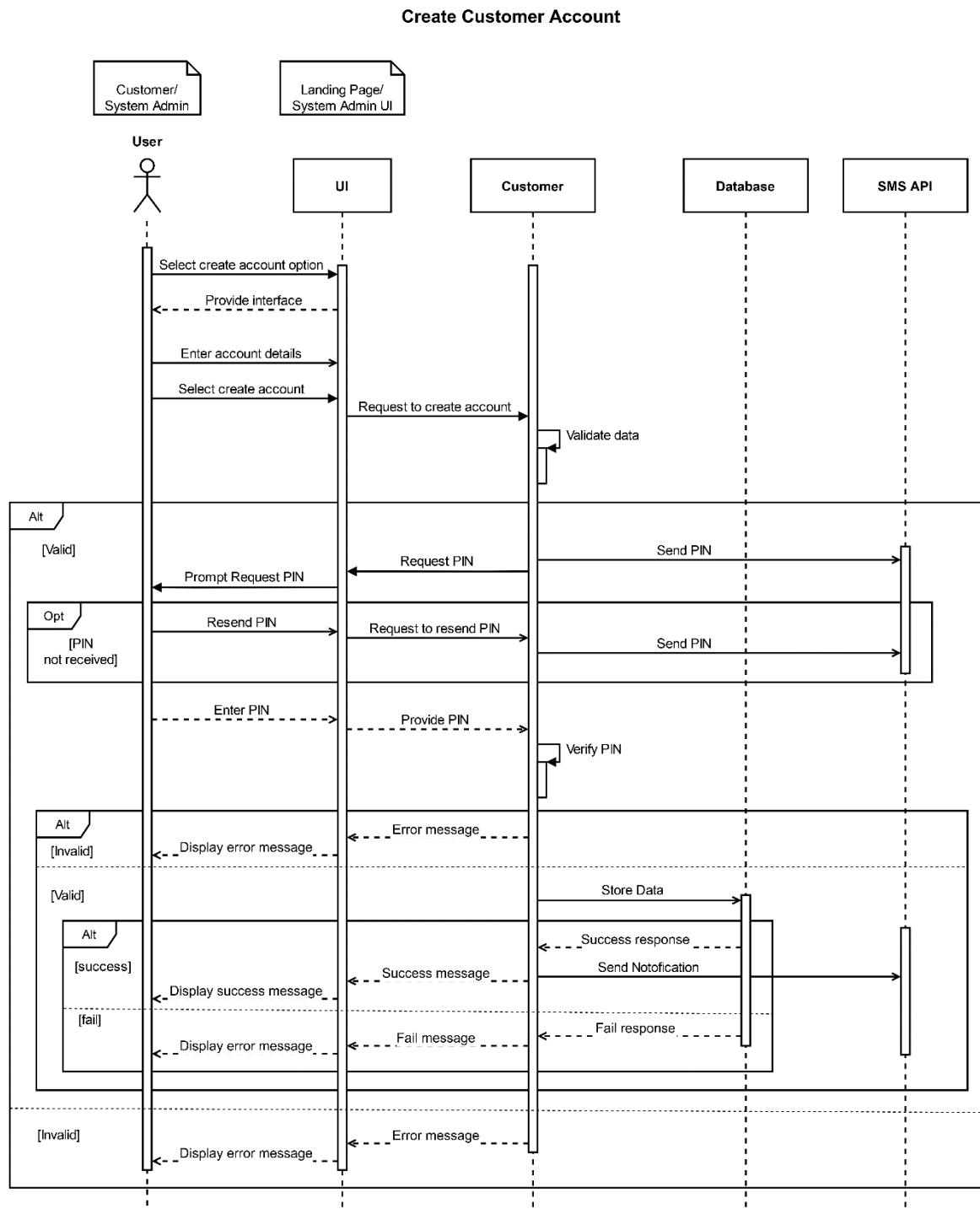


Figure 6: Create Customer Account (Sequence Diagram)

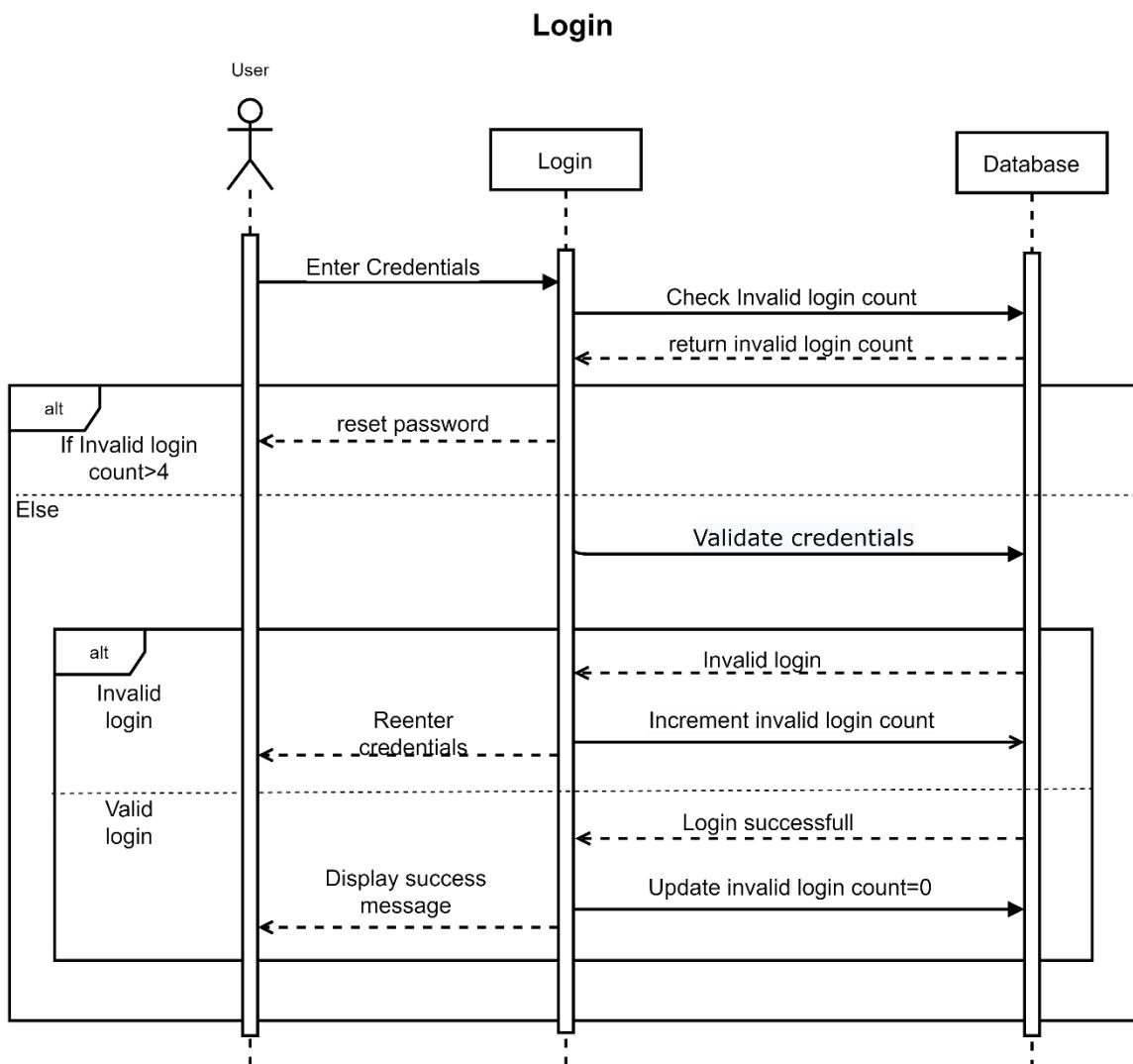


Figure 7: Login (Sequence Diagram)

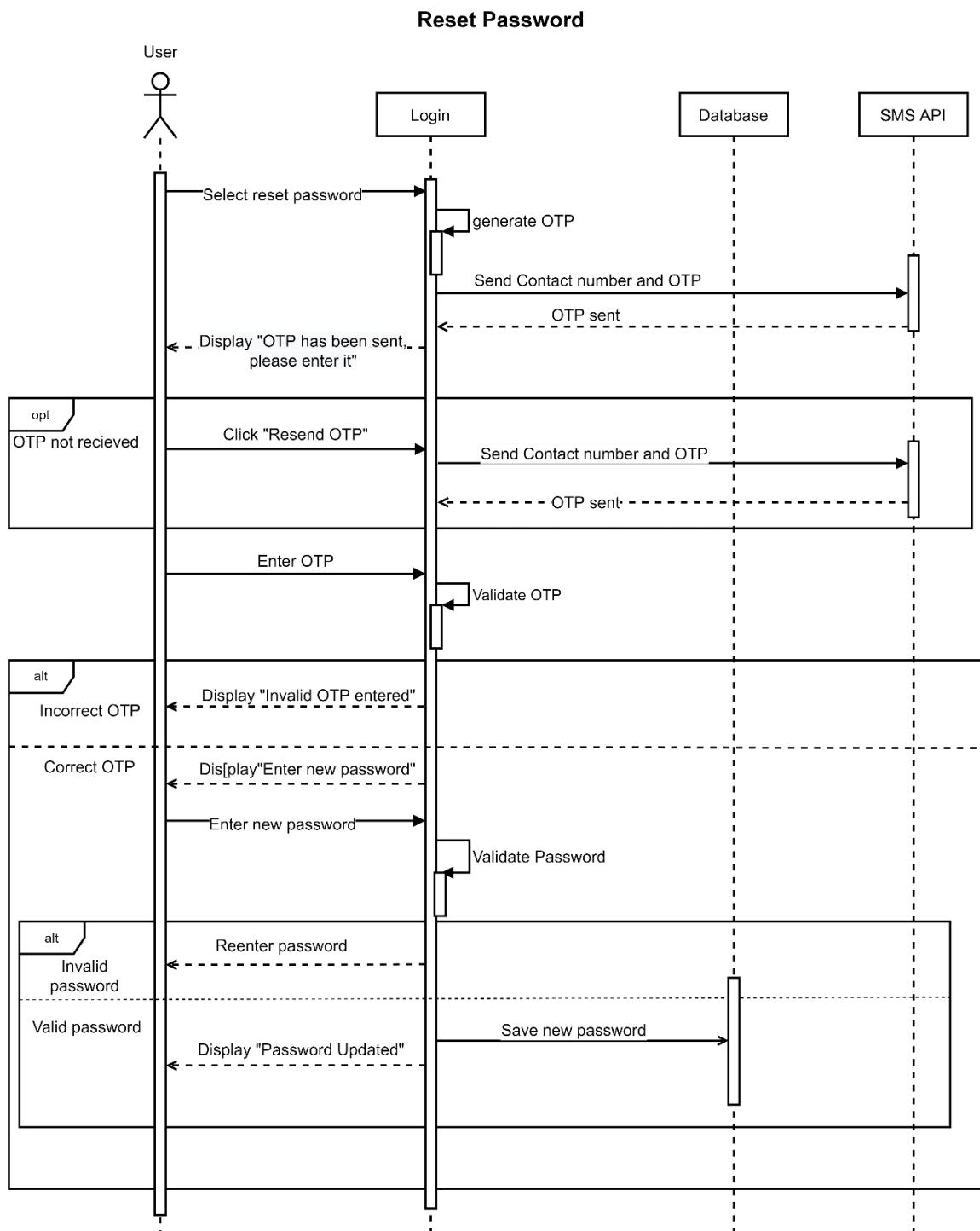


Figure 8: Reset Password (Sequence Diagram)

Change Password

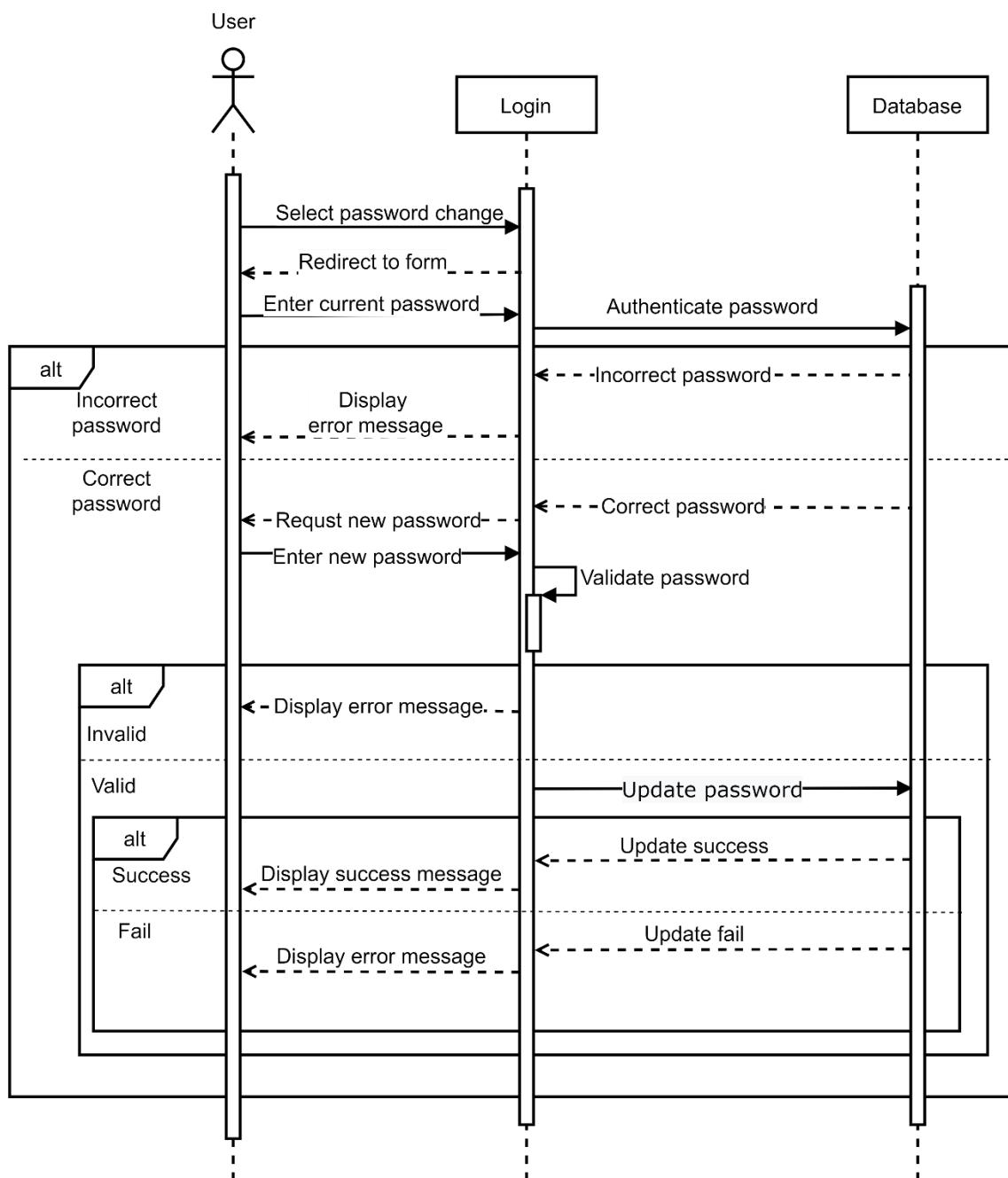


Figure 9: Change Password (Sequence Diagram)

View Profile

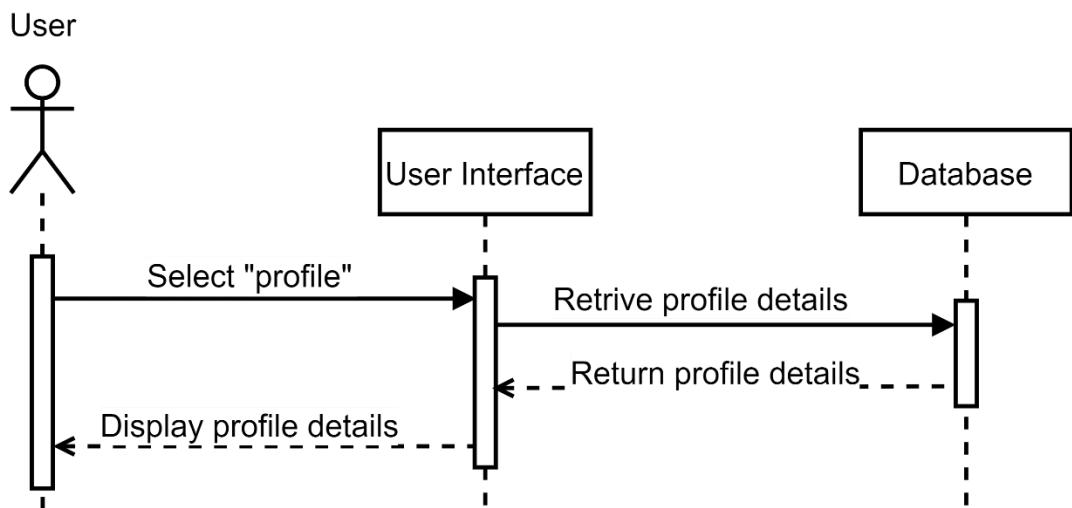


Figure 10: View Profile (Sequence Diagram)

Logout

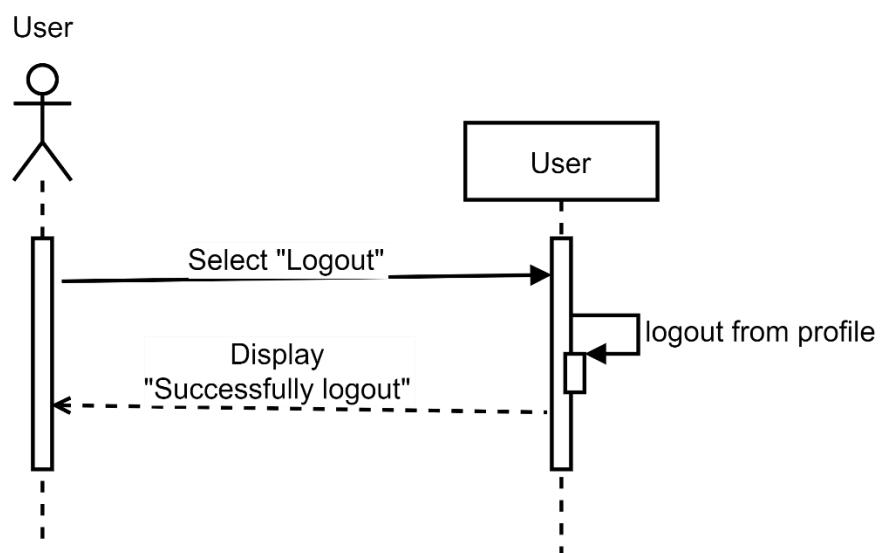


Figure 11: Logout (Sequence Diagram)

Update Profile

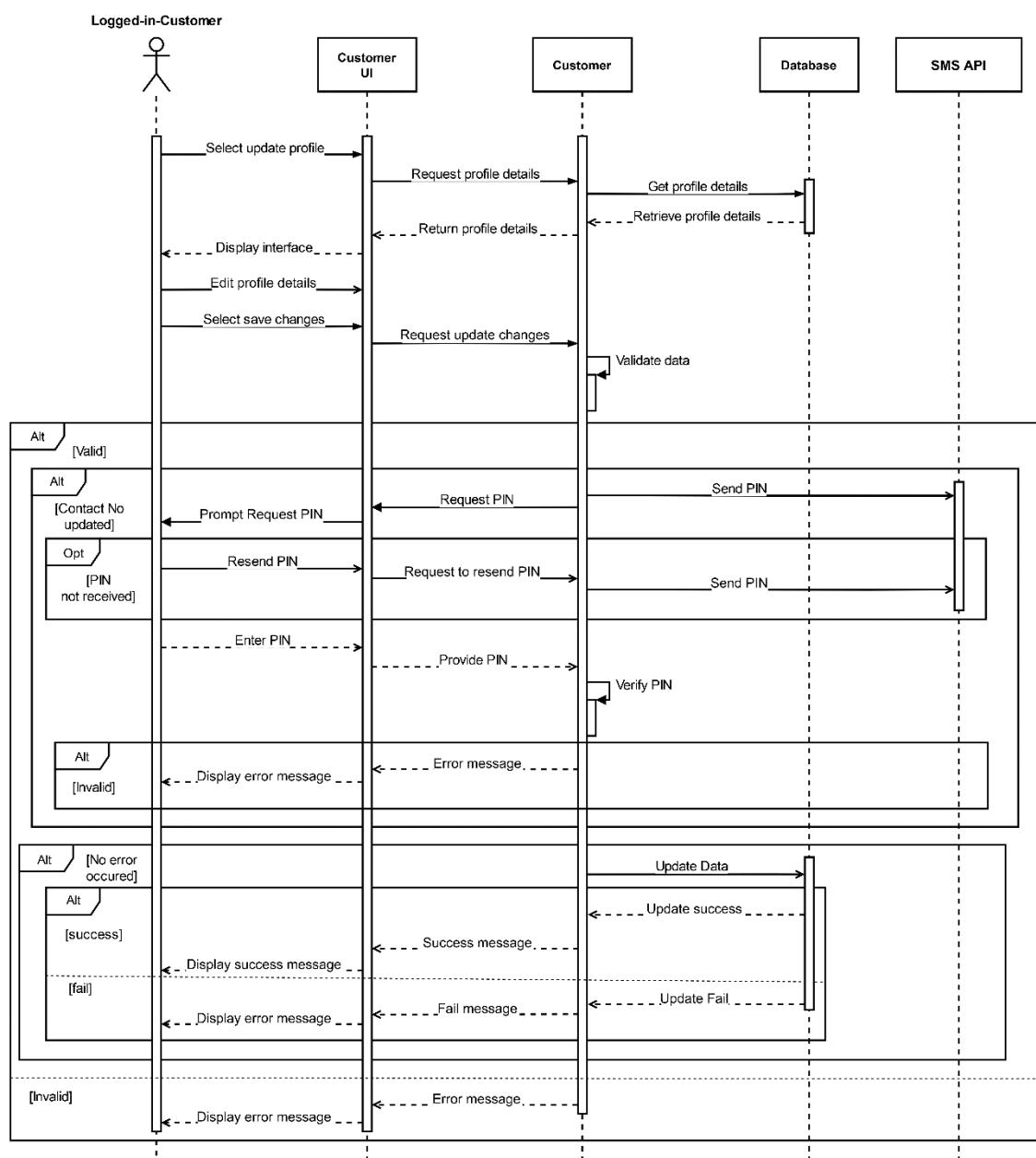


Figure 12: Update Profile (Sequence Diagram)

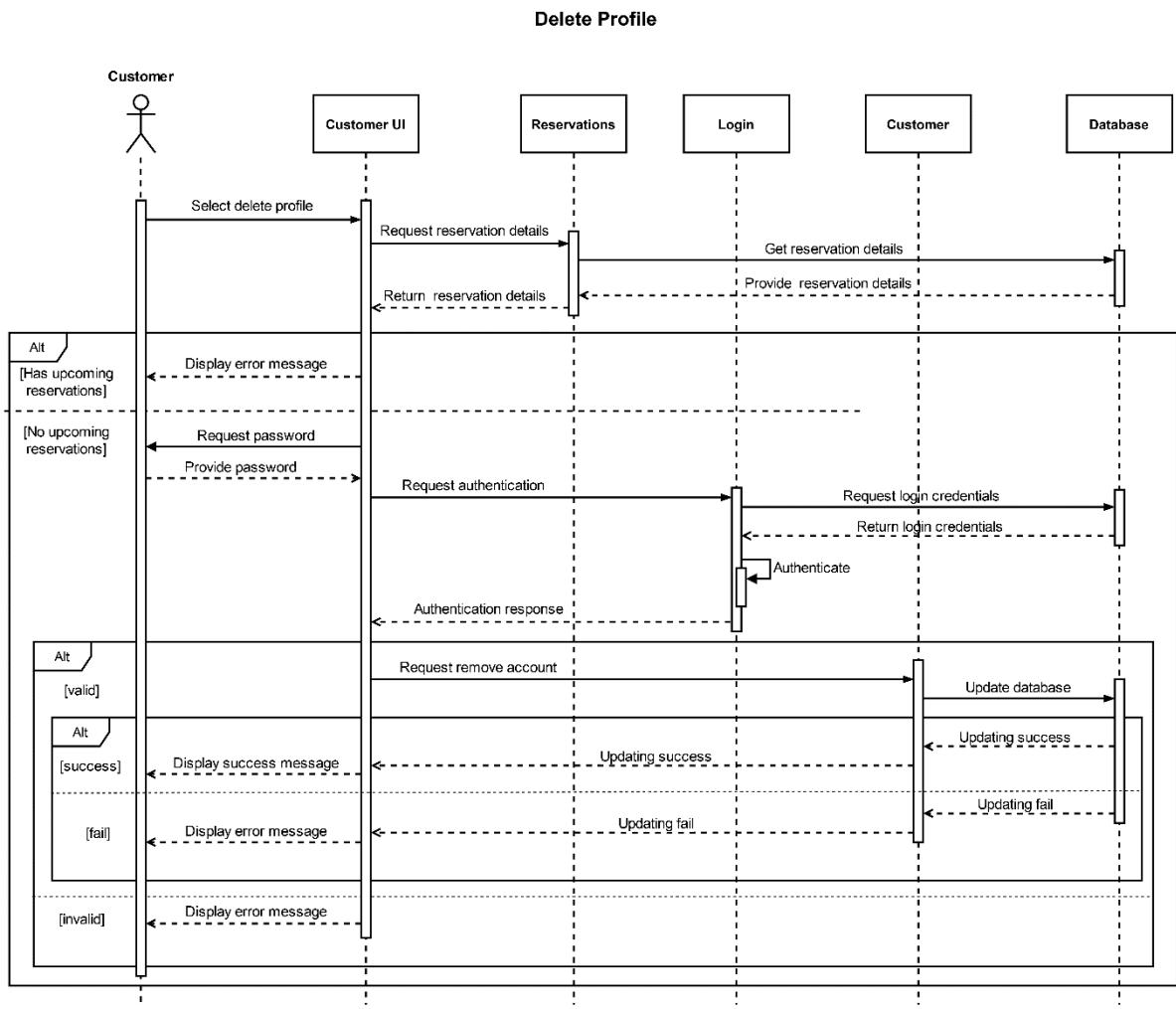


Figure 13: Delete Profile (Sequence Diagram)

View Reservations Log

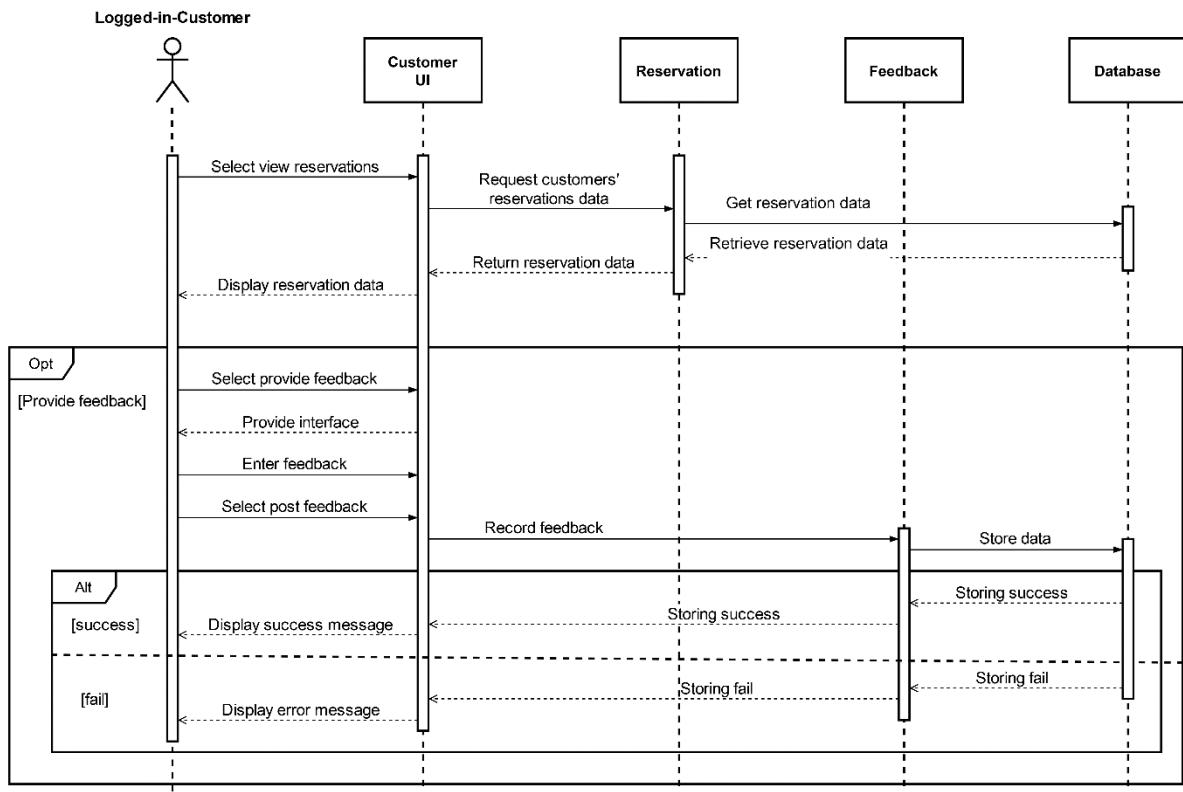


Figure 14: View Reservation Logs (Sequence Diagram)

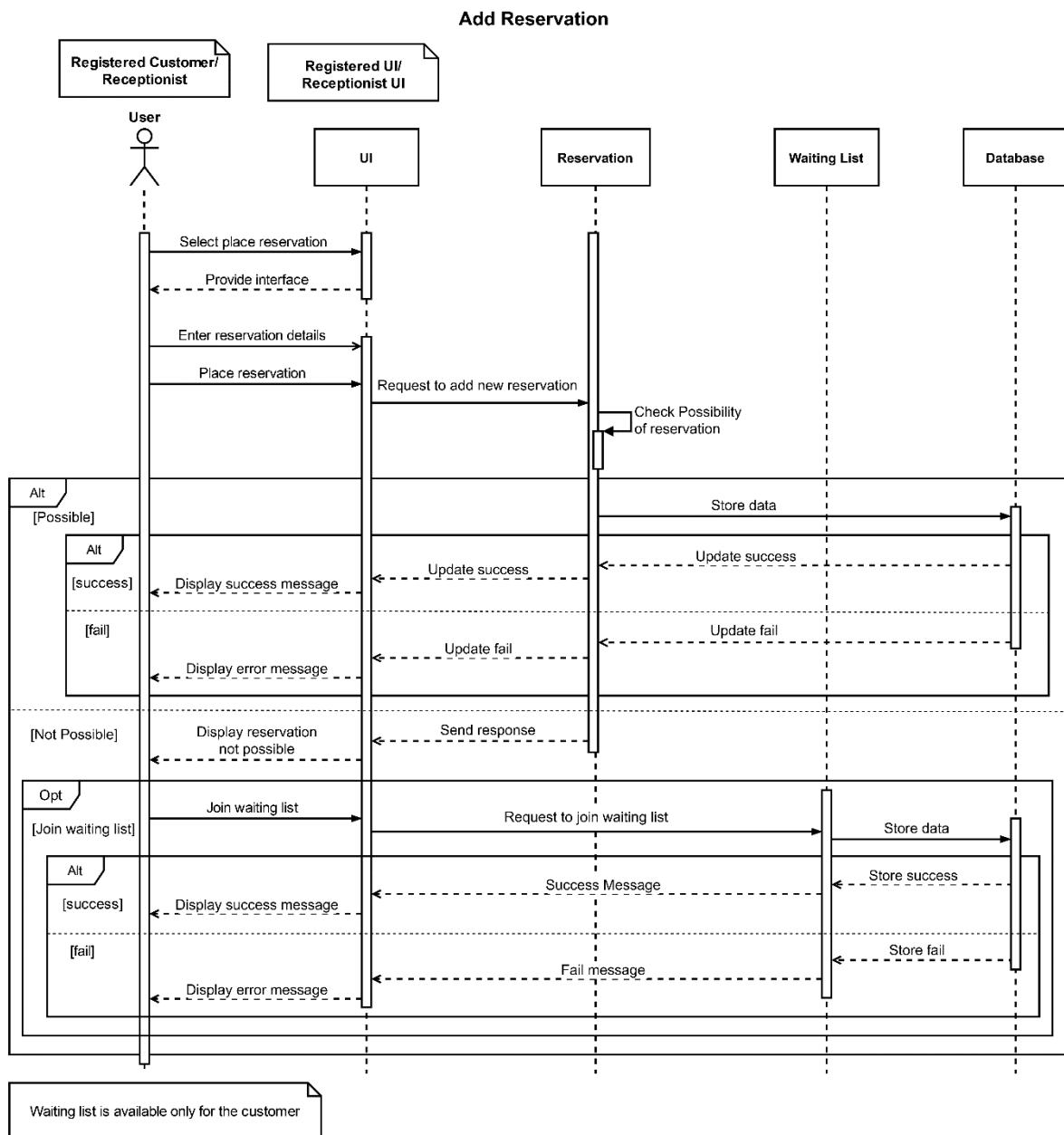


Figure 15: Add Reservation (Sequence Diagram)

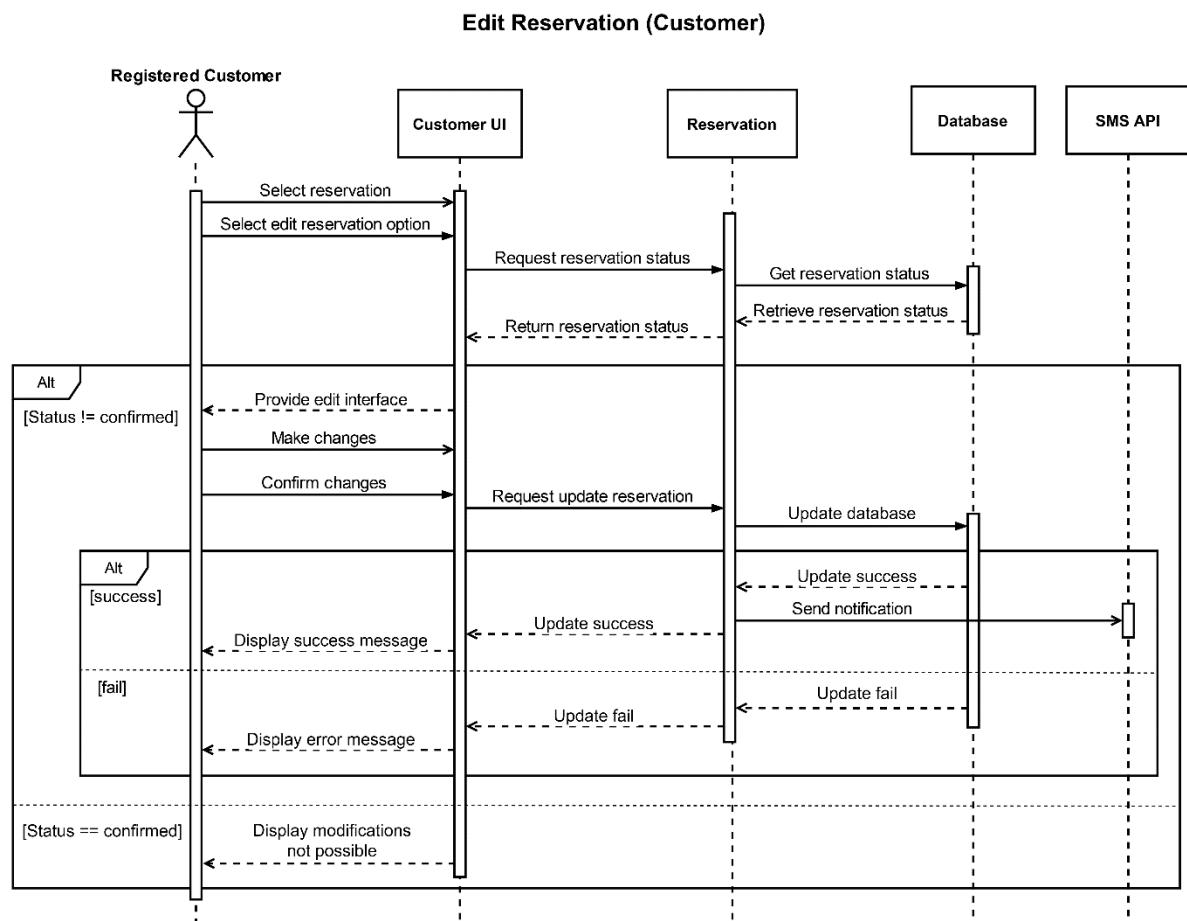


Figure 16: Edit Reservation-Customer (Sequence Diagram)

Edit Reservation (Receptionist)

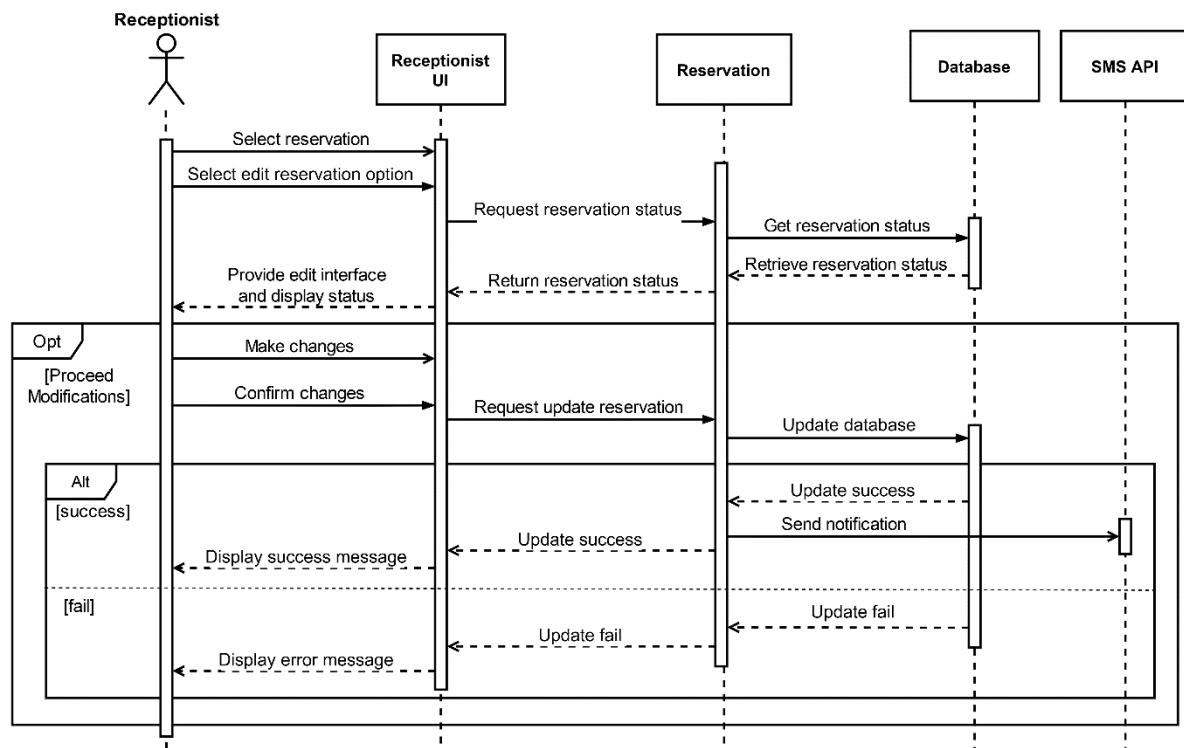


Figure 17: Edit Reservation(-Receptionist) (Sequence Diagram)

Cancel Reservation

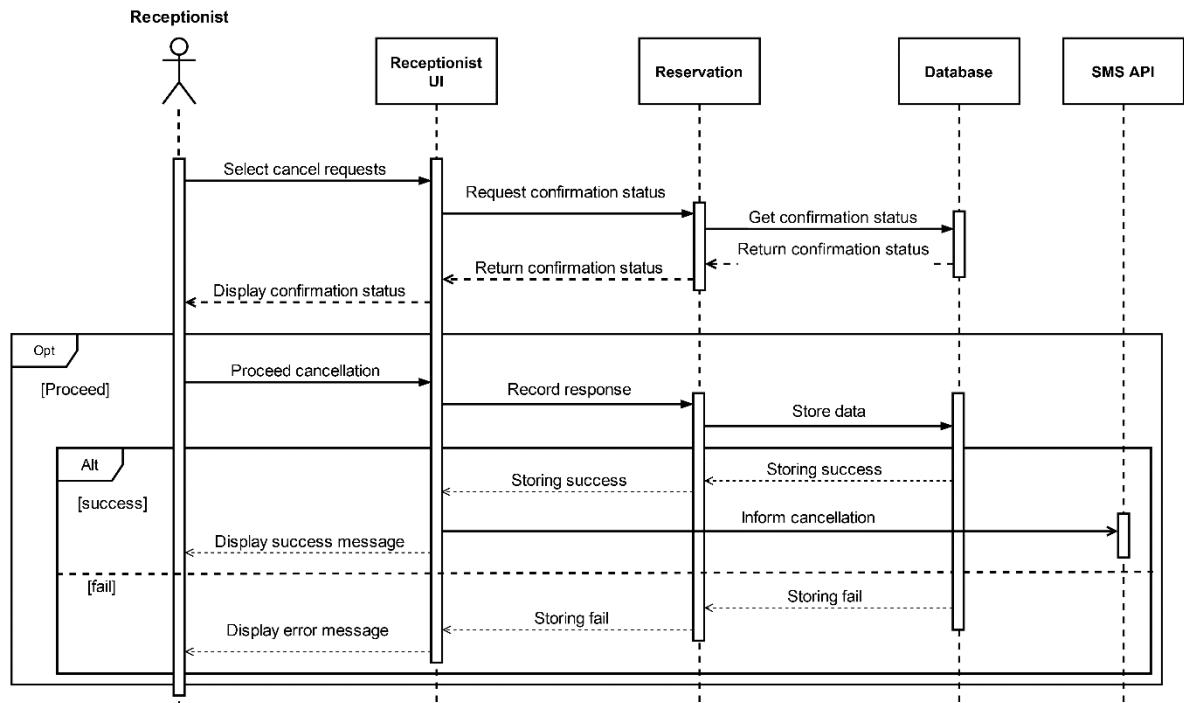


Figure 18: Cancel Reservation (Sequence Diagram)

Confirm Reservation

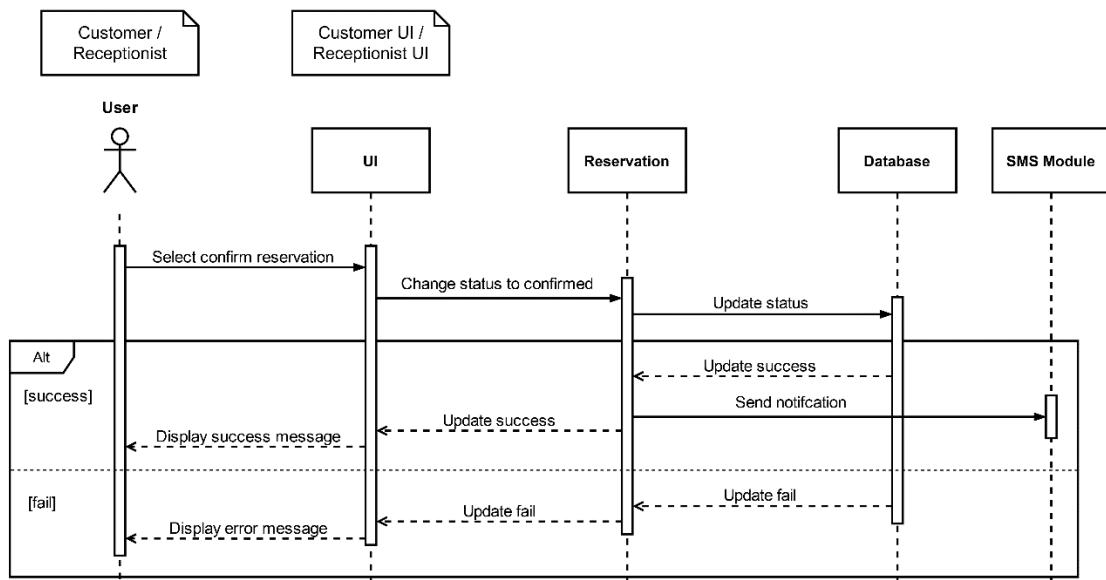


Figure 19: Confirm Reservation (Sequence Diagram)

View Assigned Reservations

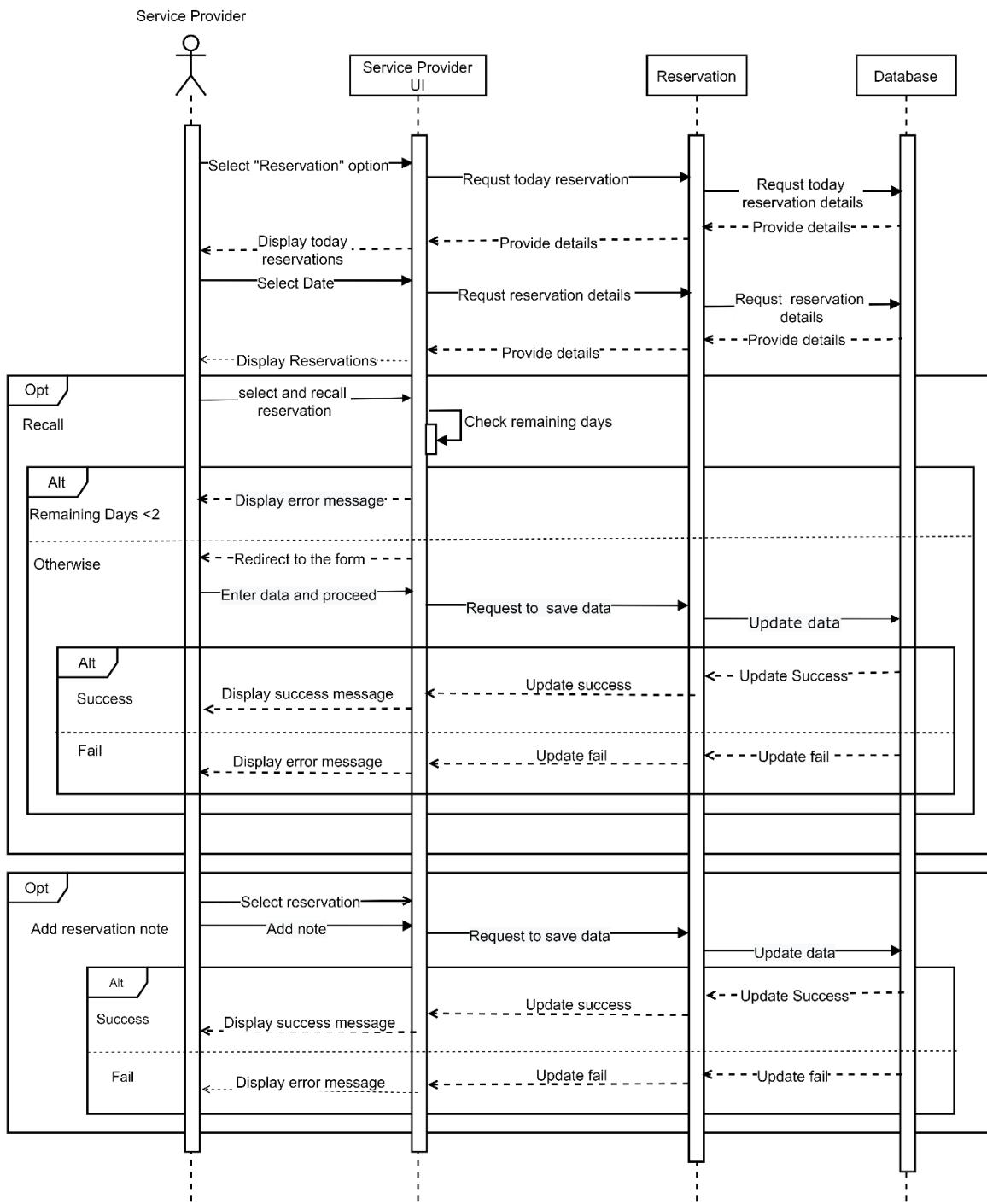


Figure 20: View Assigned Reservations (Sequence Diagram)

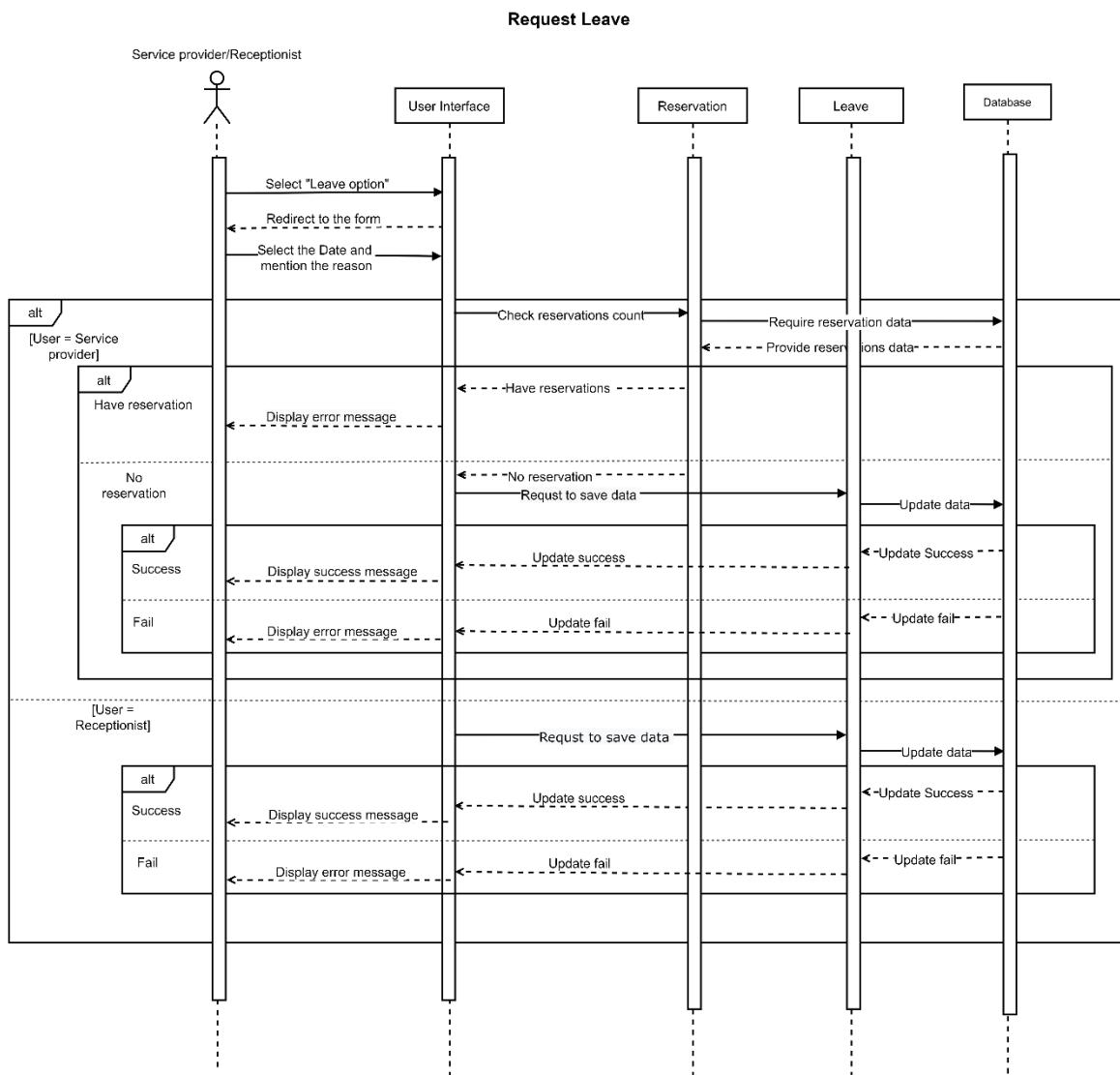


Figure 21: Request Leave (Sequence Diagram)

Manage Waiting List

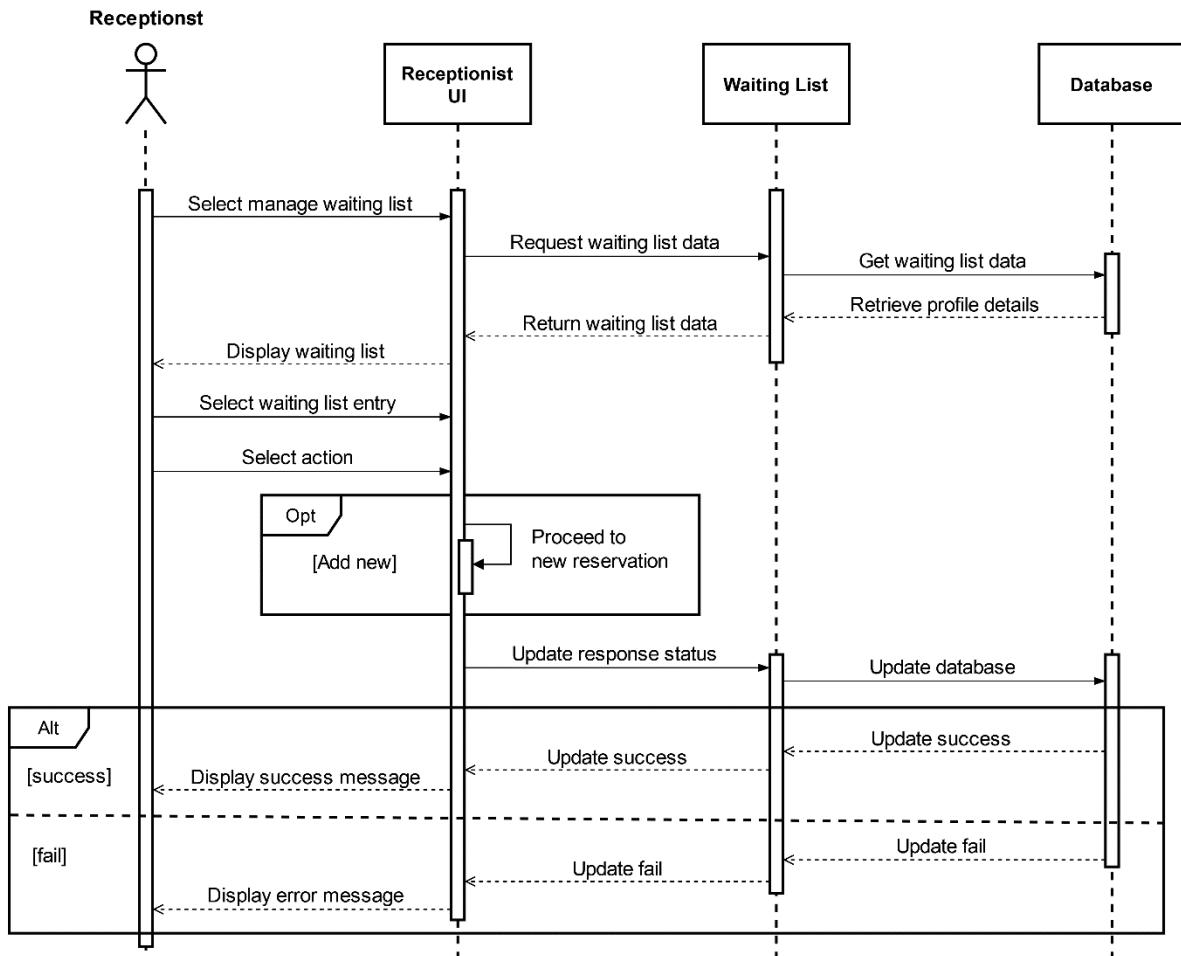


Figure 22: Manage Waiting List (Sequence Diagram)

Handle Reservation Recalls

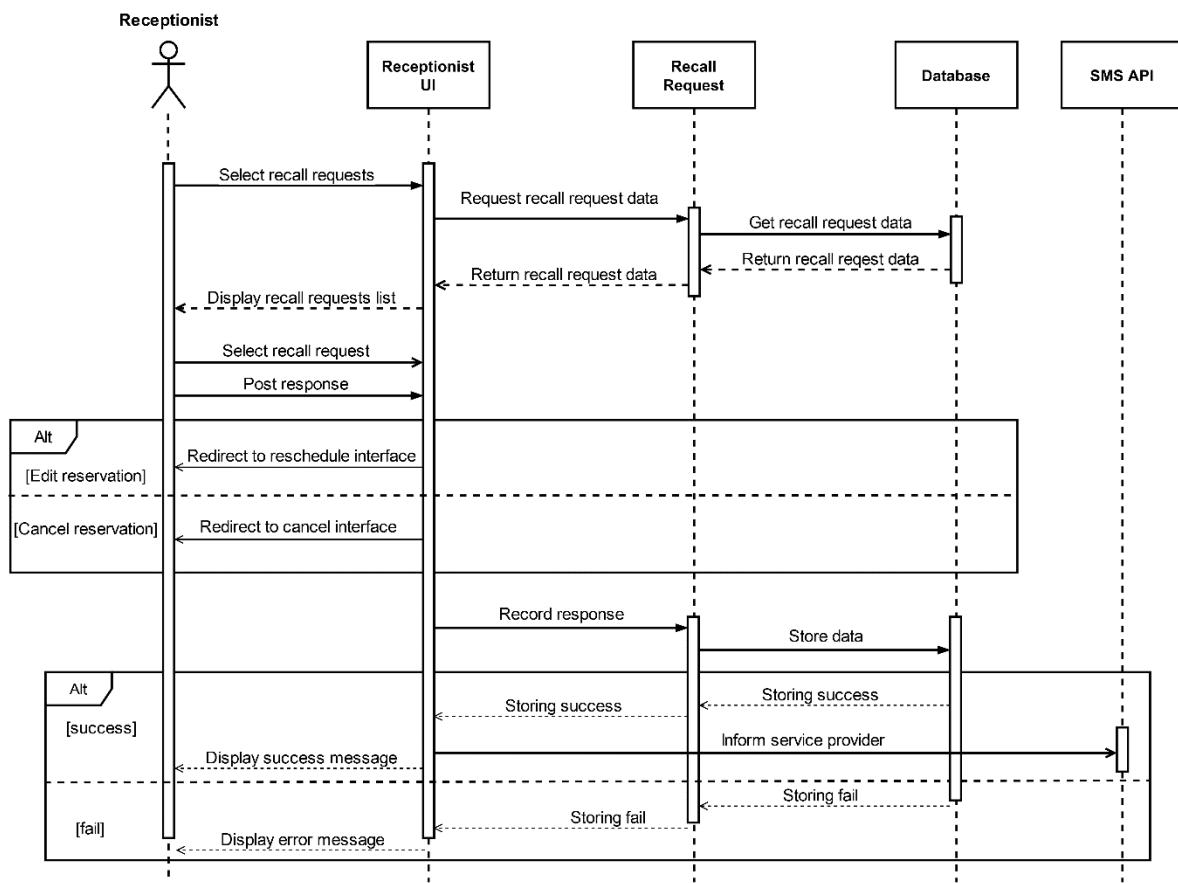


Figure 23: Handle Reservation Recall (Sequence Diagram)

Close Reservation

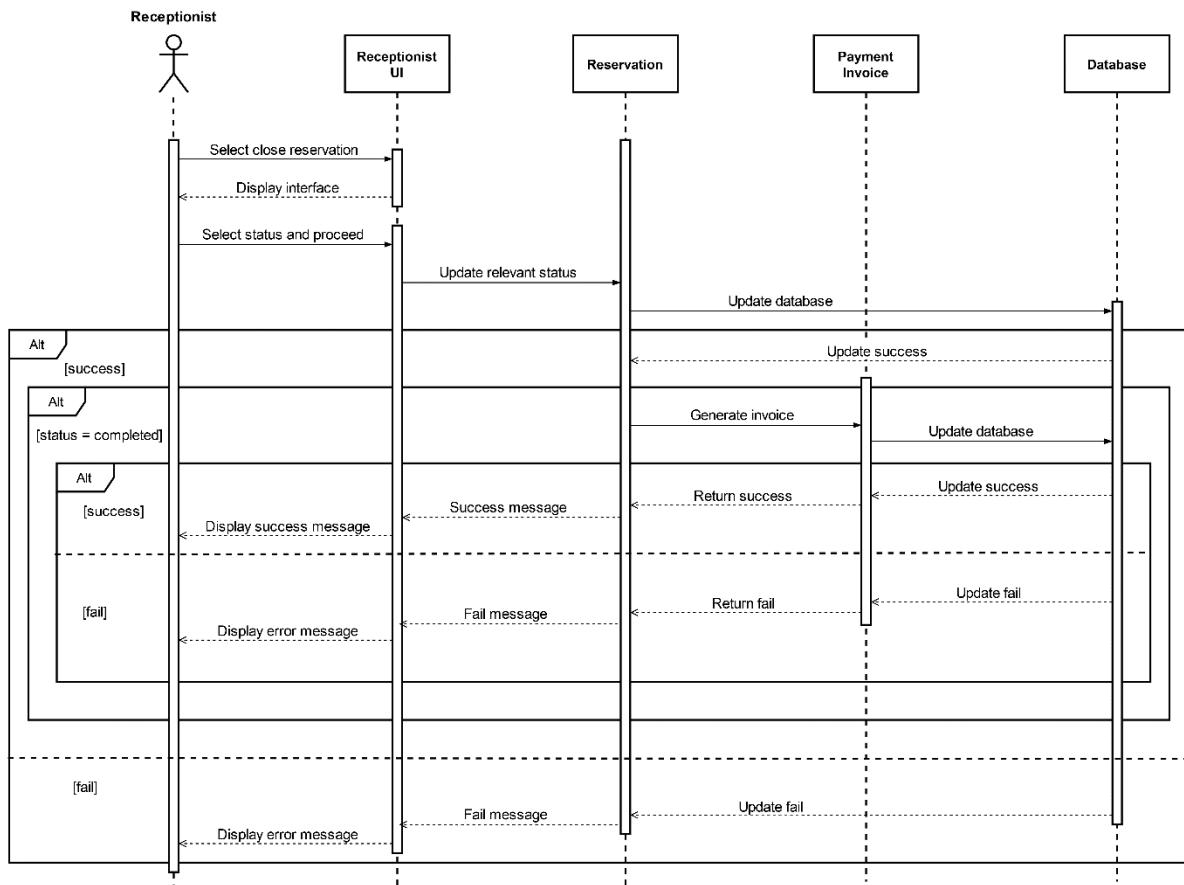


Figure 24: Close Reservation (Sequence Diagram)

View Reservations

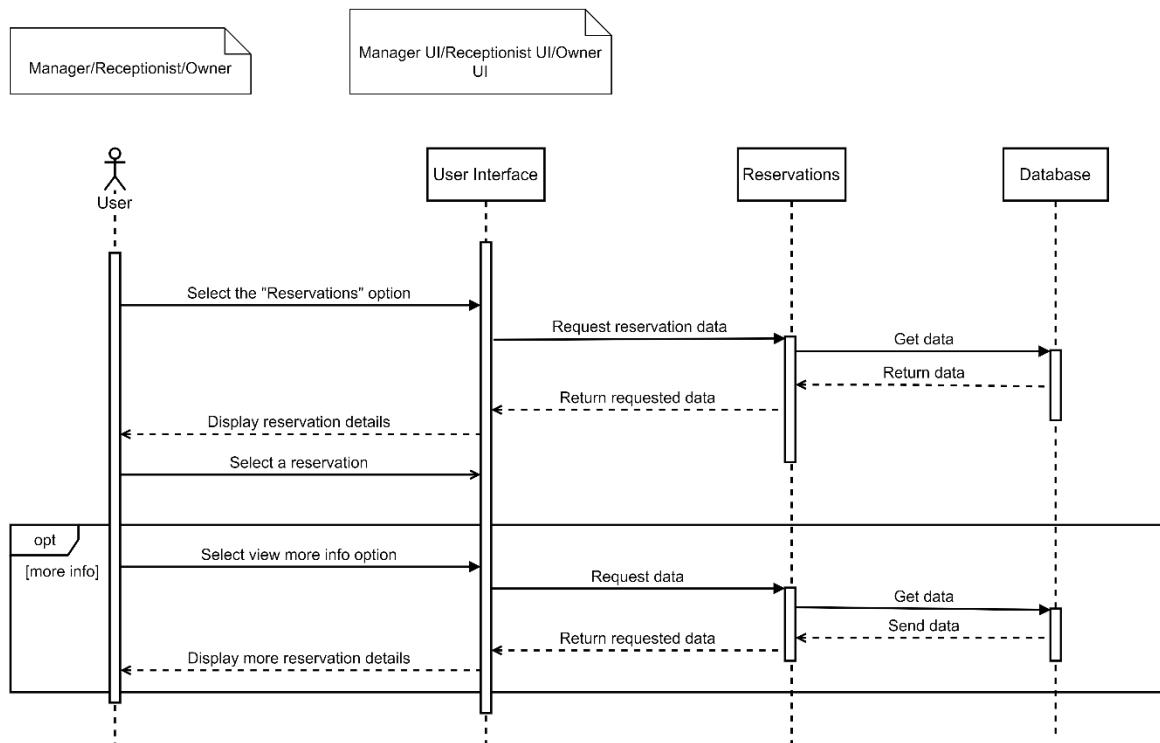


Figure 25: View Reservations (Sequence Diagram)

View Customers

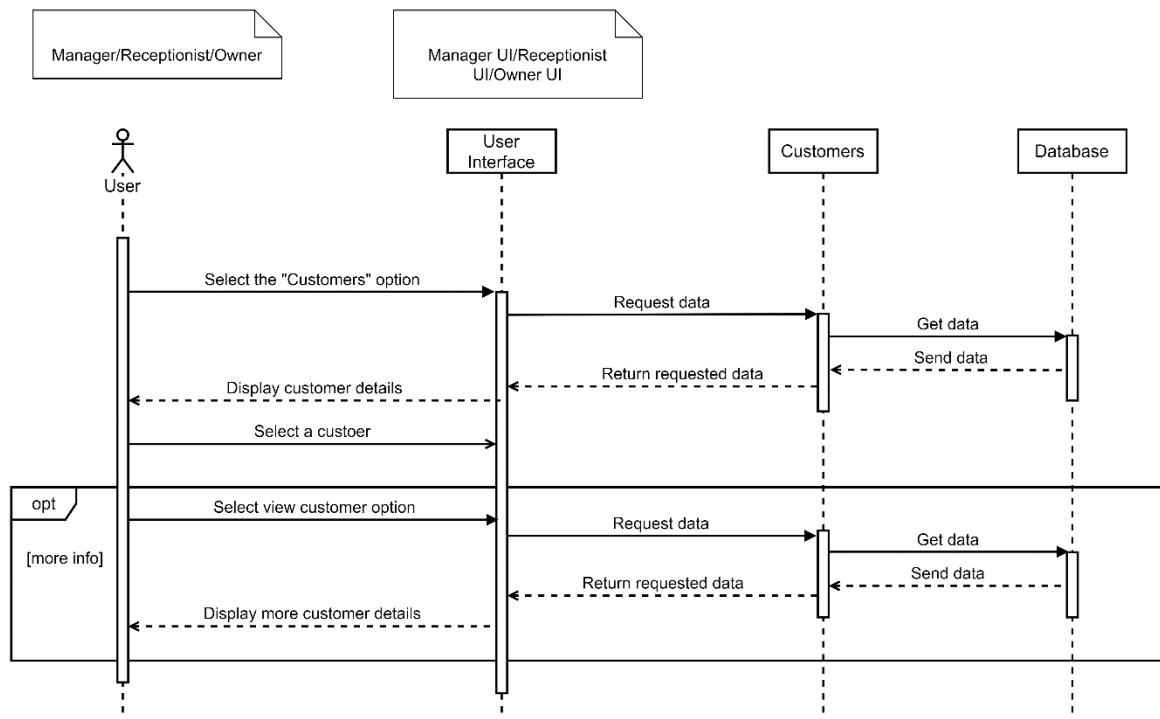


Figure 26: View Customers (Sequence Diagram)

View Staff Members

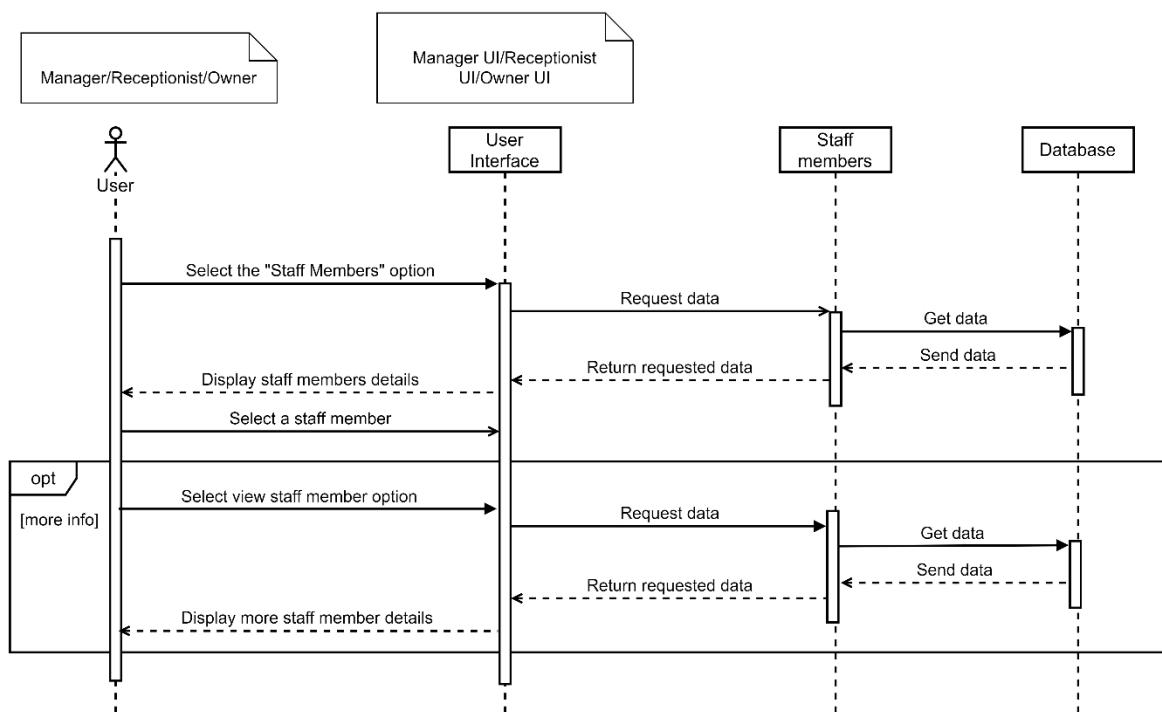


Figure 27: View Staff Members (Sequence Diagram)

View Service

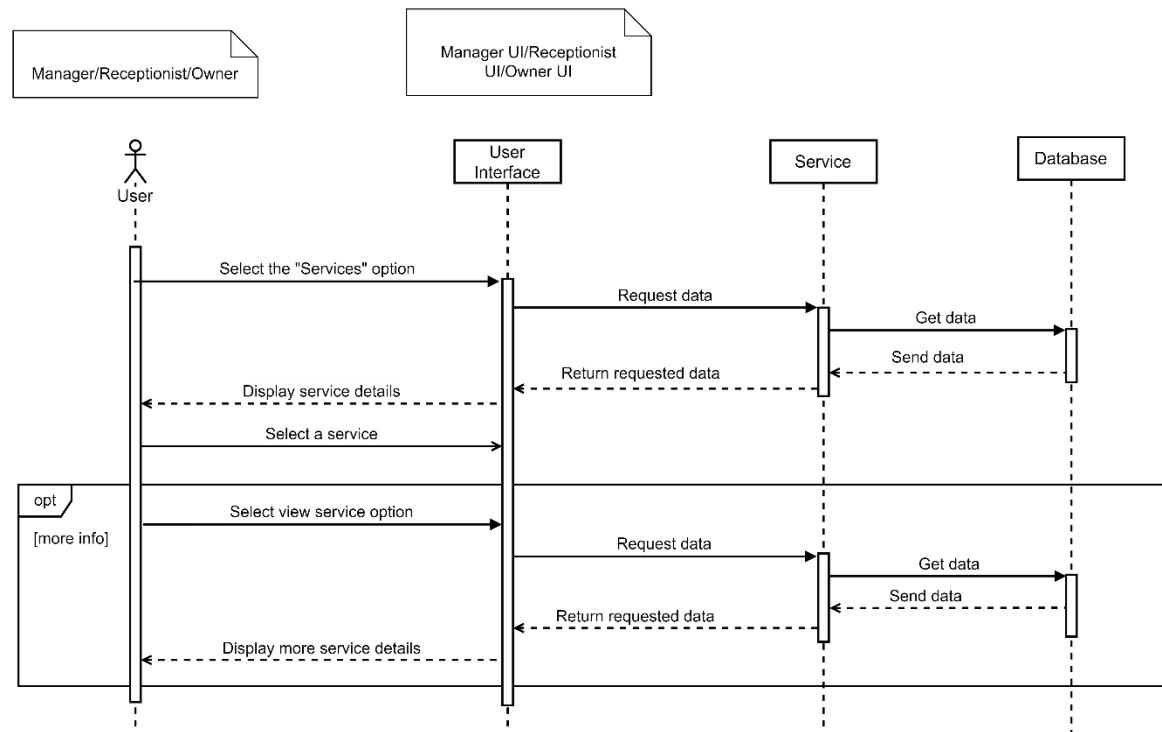


Figure 28: View Service (Sequence Diagram)

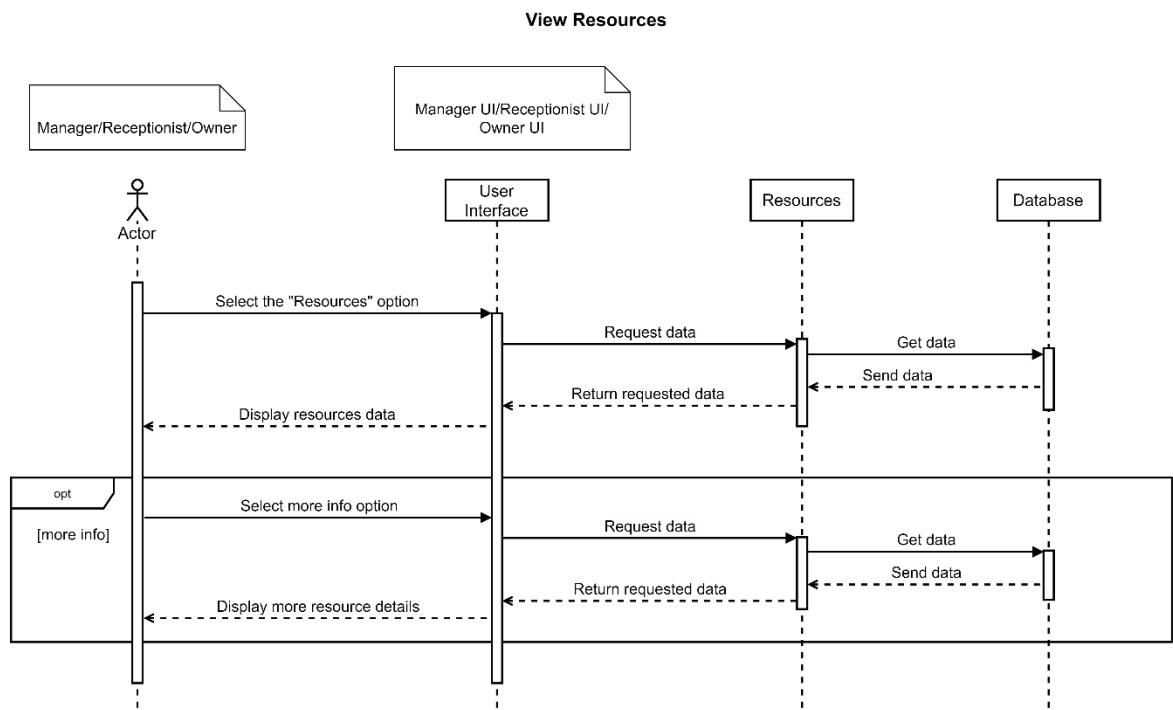


Figure 29: View Resources (Sequence Diagram)

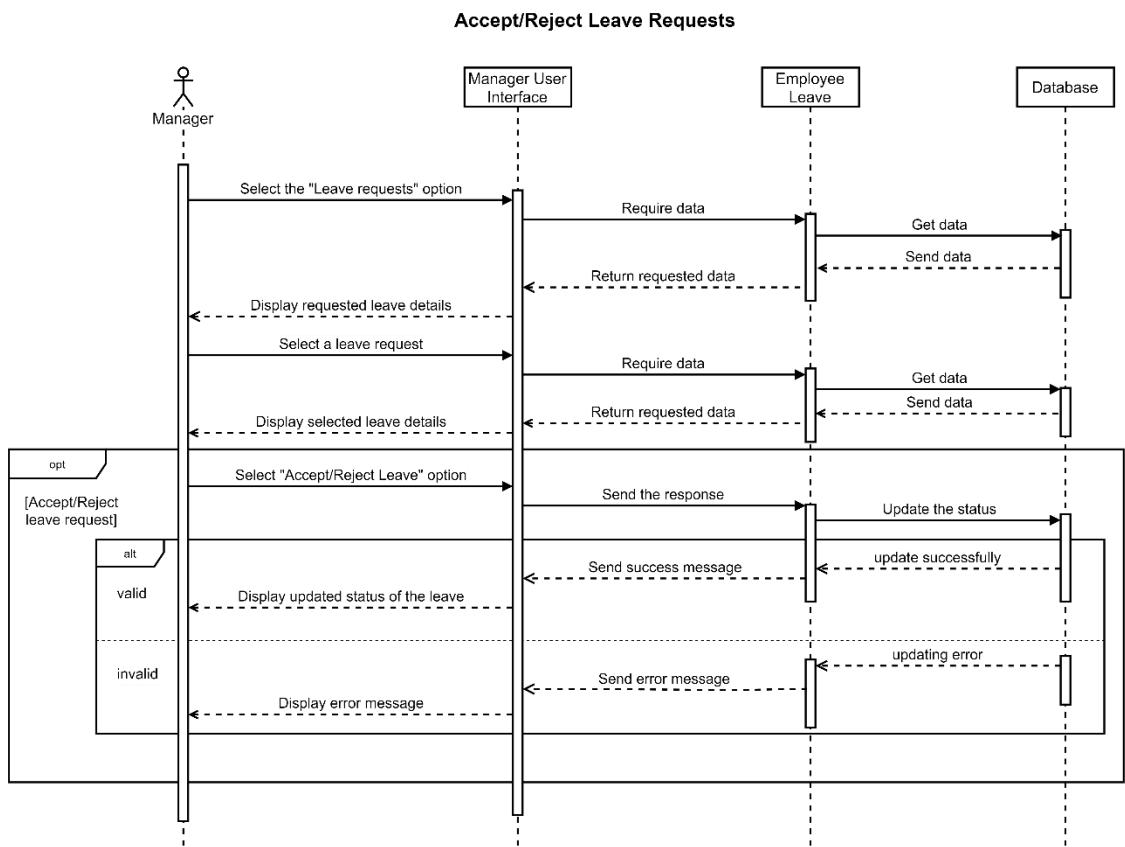


Figure 30: Accept/Reject Leave Requests (Sequence Diagram)

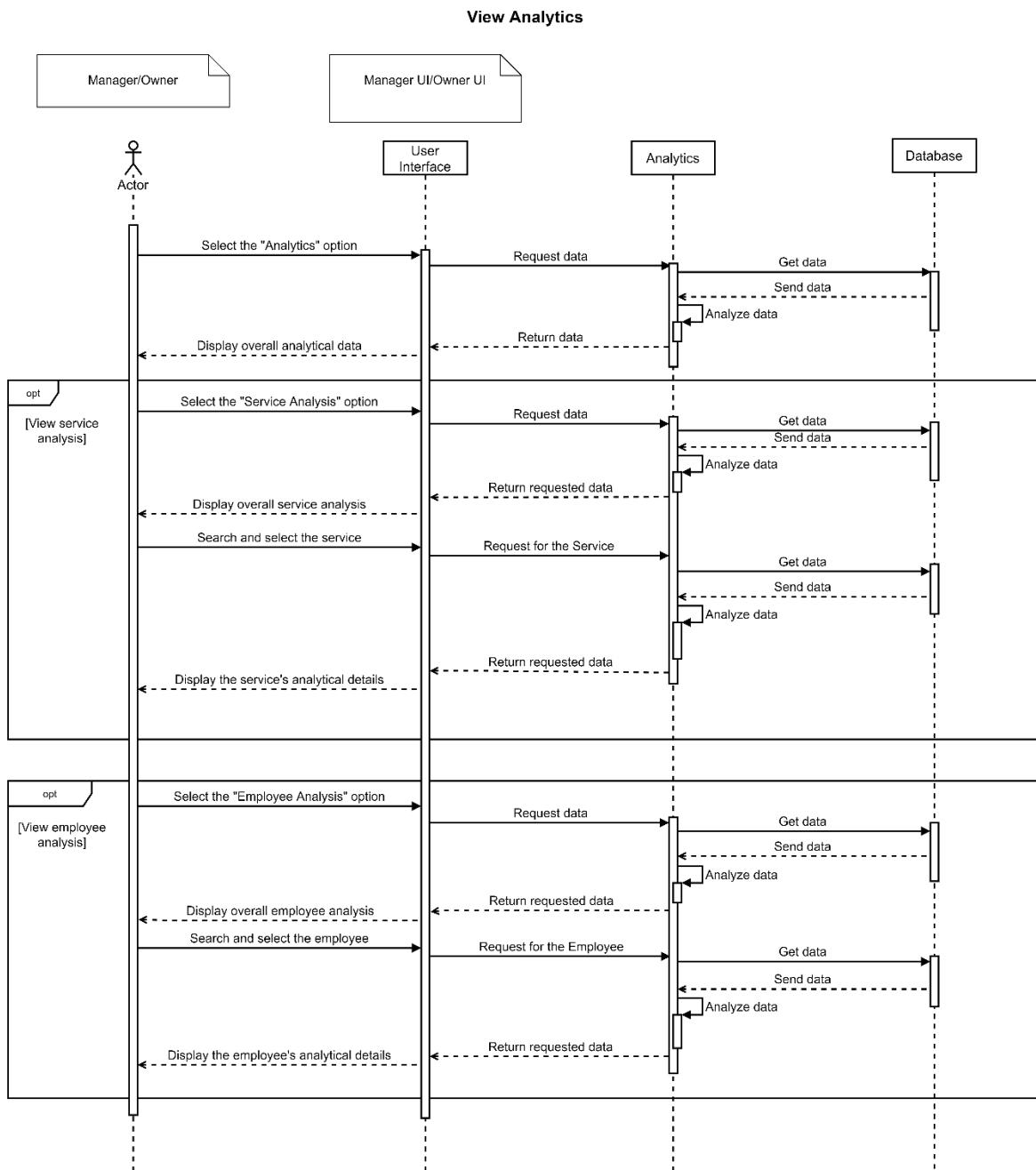


Figure 31: View Analytics (Sequence Diagram)

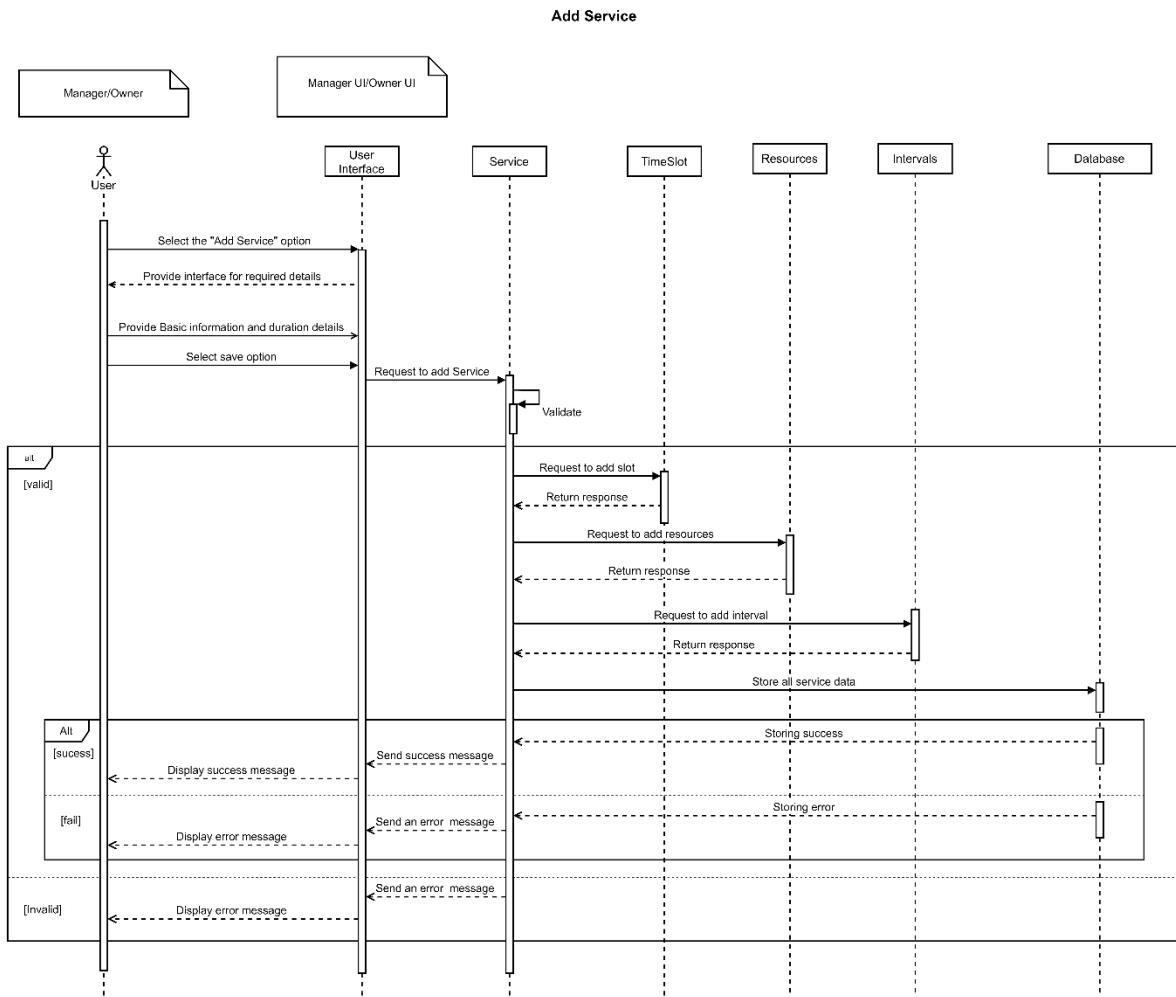


Figure 32: Add Service (Sequence Diagram)

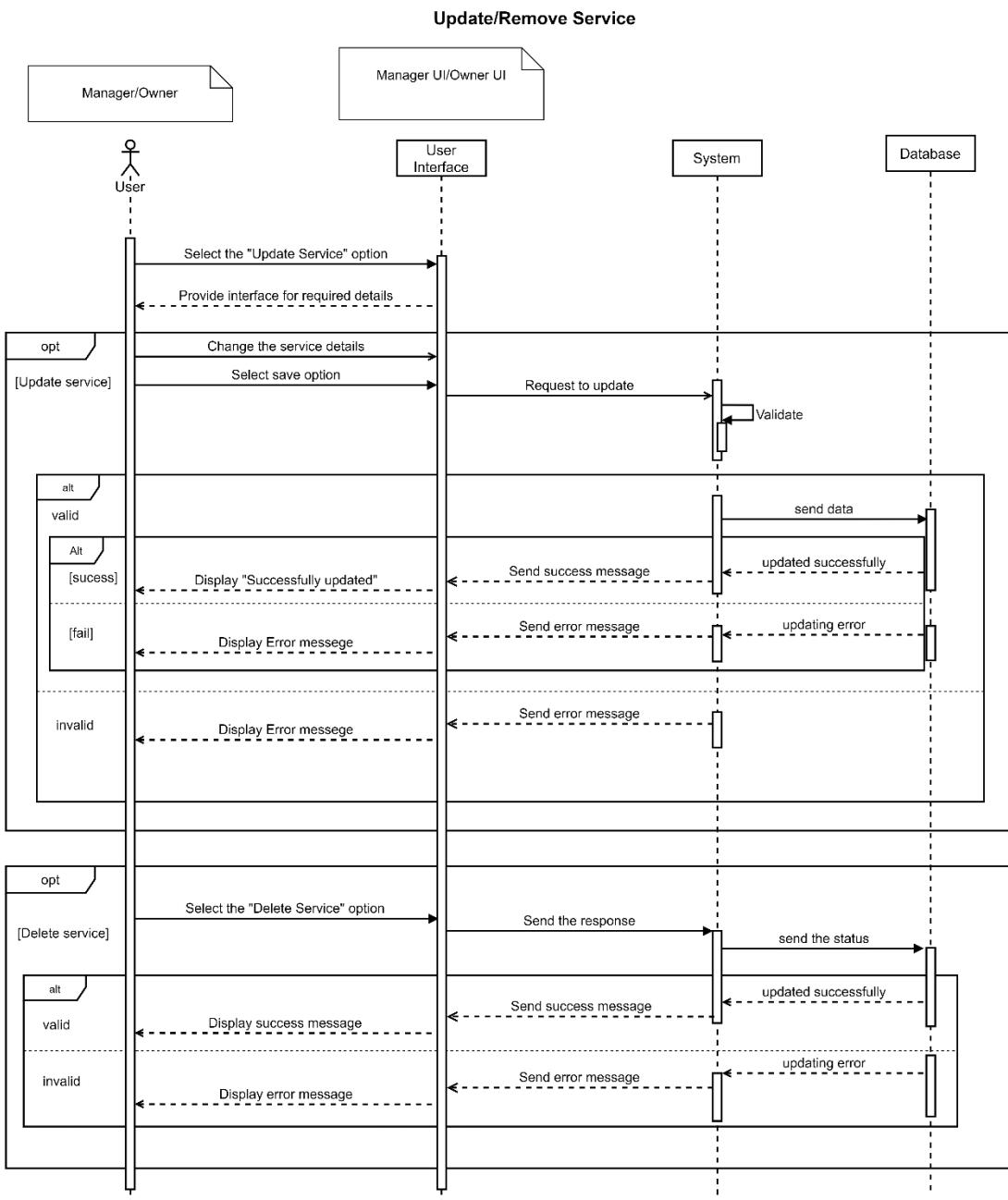


Figure 33: Update/Remove Service (Sequence Diagram)

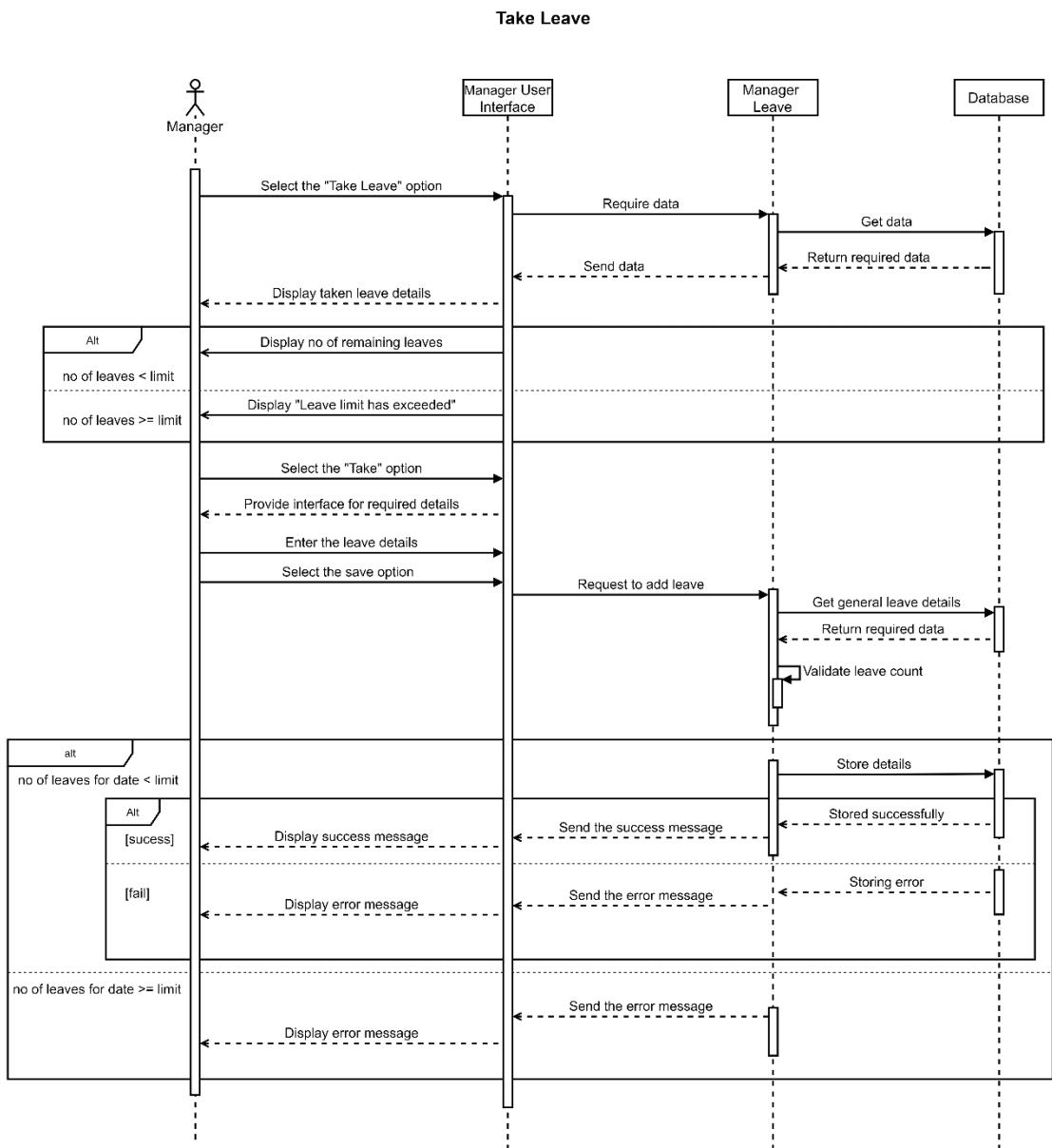


Figure 34: Take Leave (Sequence Diagram)

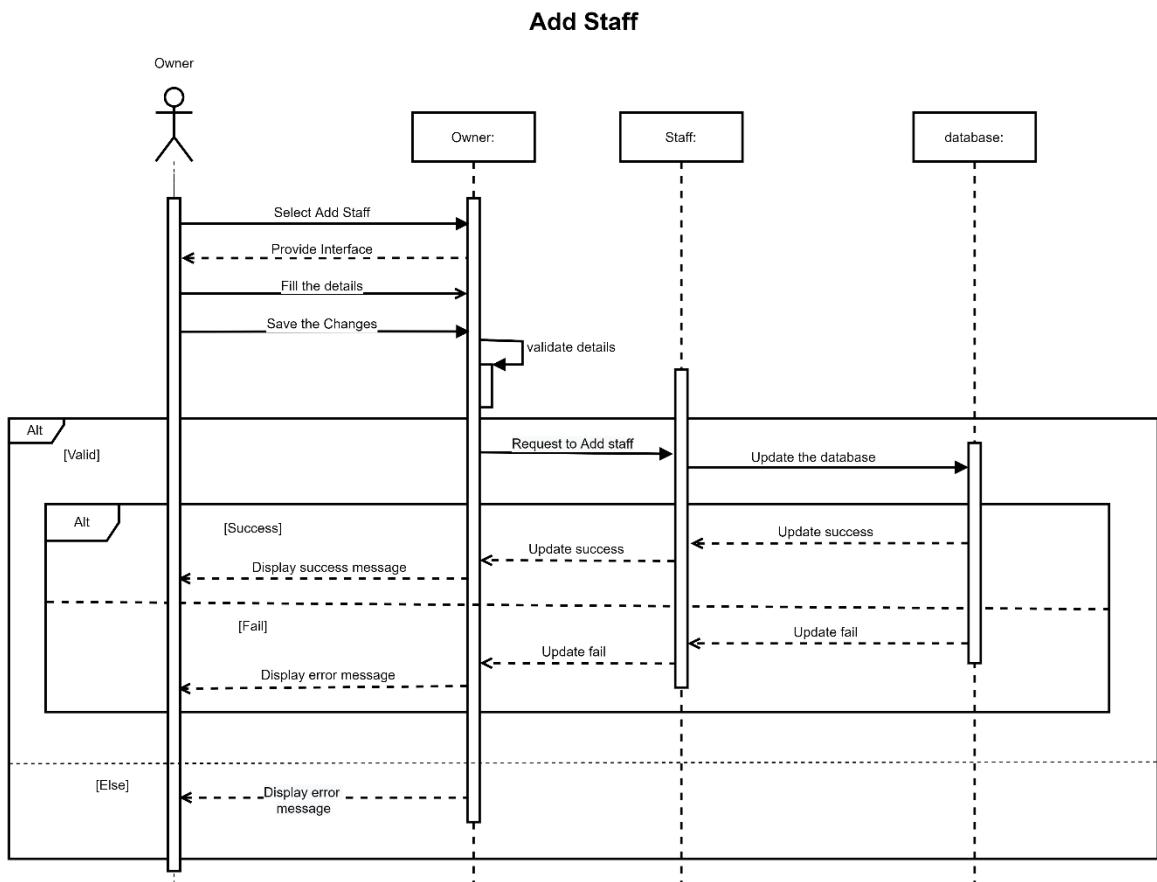


Figure 35: Add Staff (Sequence Diagram)

Update Staff

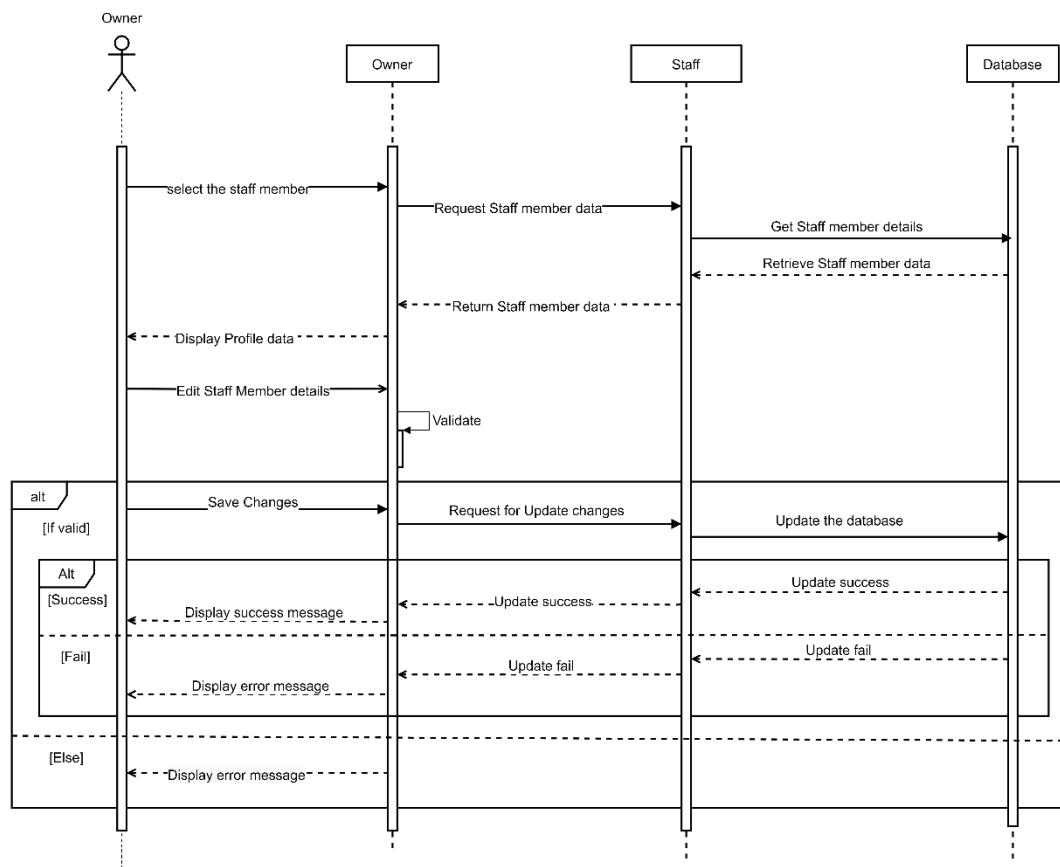


Figure 36: Update Staff (Sequence Diagram)

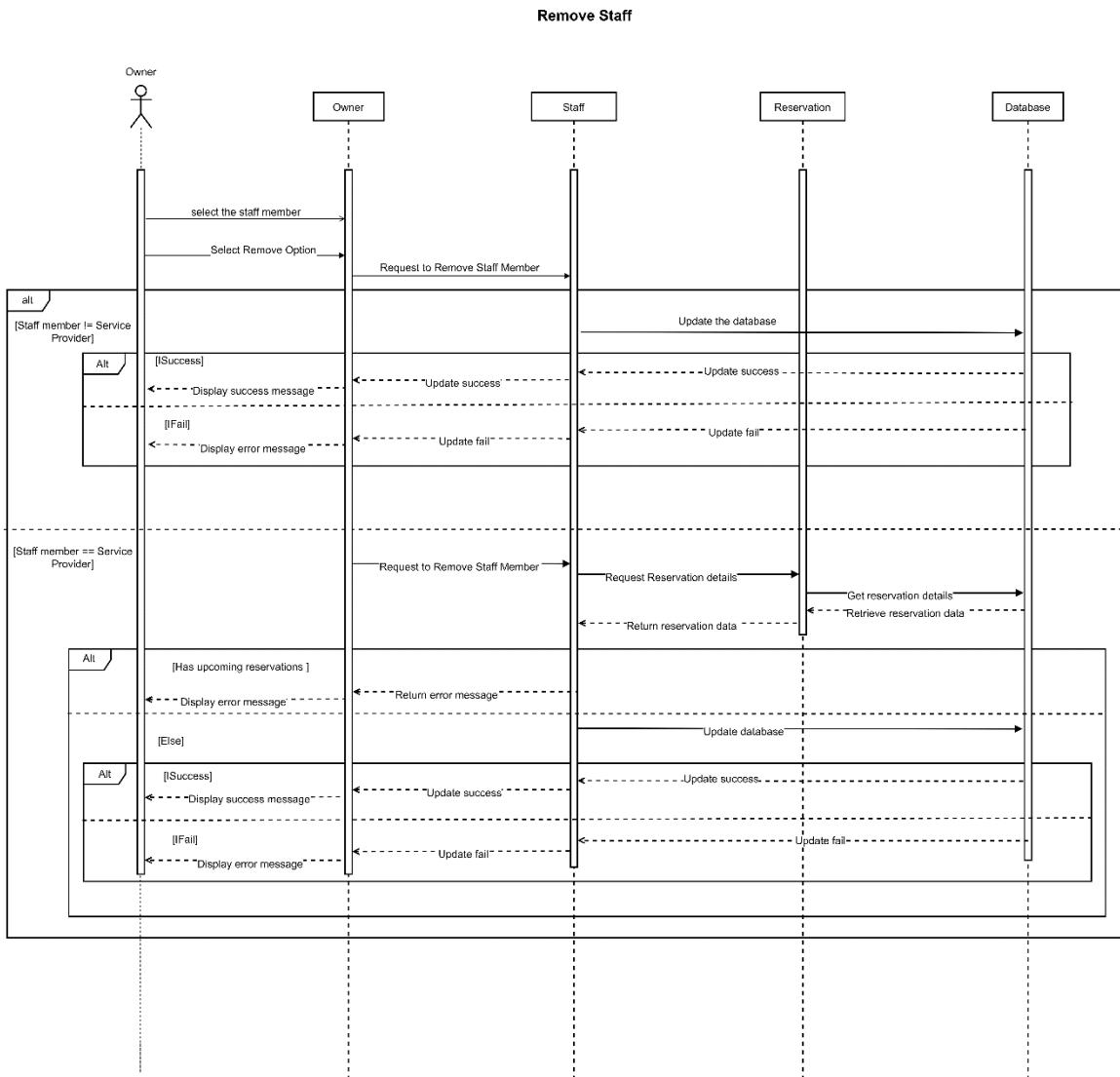


Figure 37: Remove Staff (Sequence Diagram)

Disable Staff

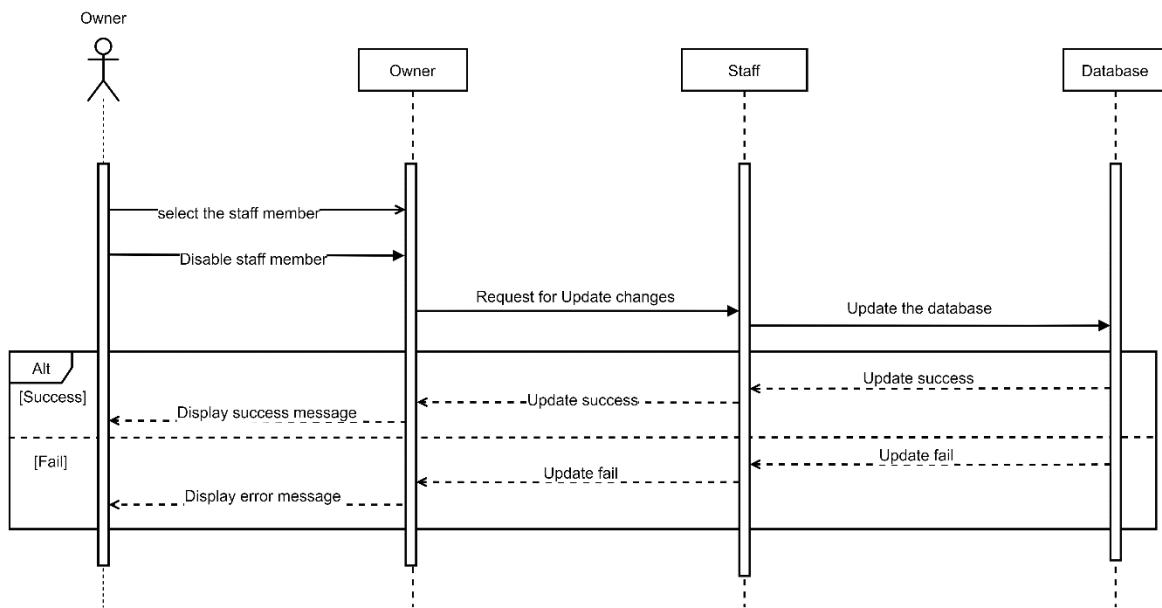


Figure 38: Disable Staff (Sequence Diagram)

Remove Customer

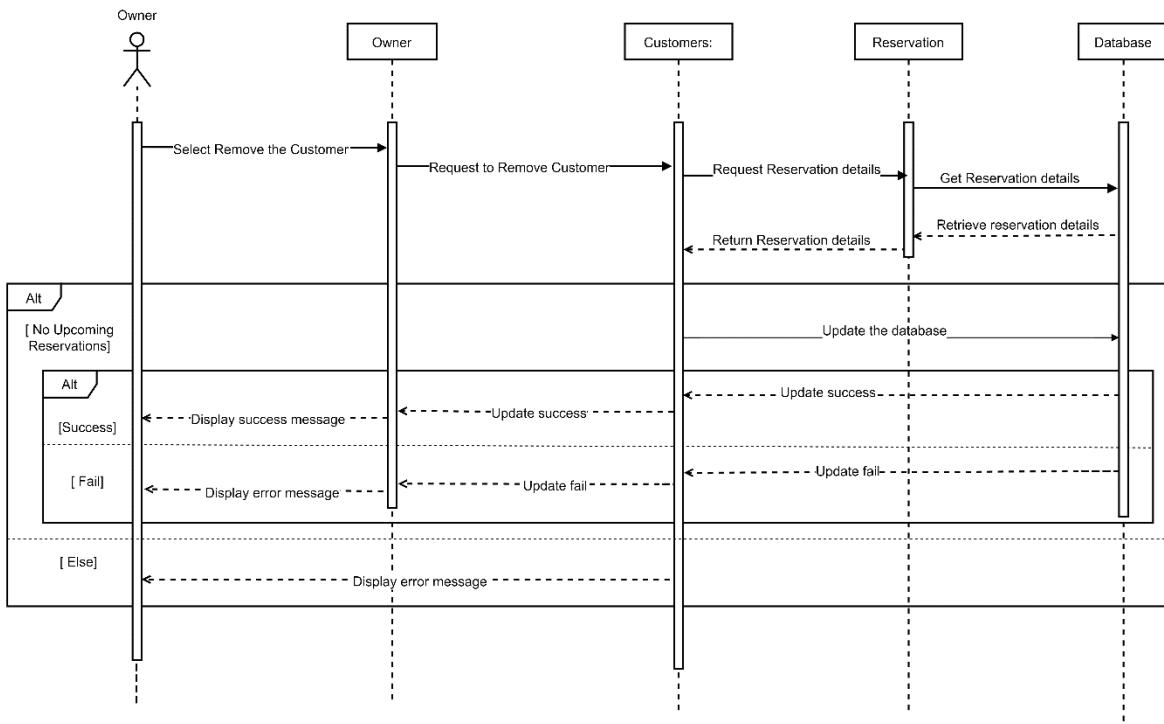


Figure 39: Remove Customer (Sequence Diagram)

View/Update Salary Payments

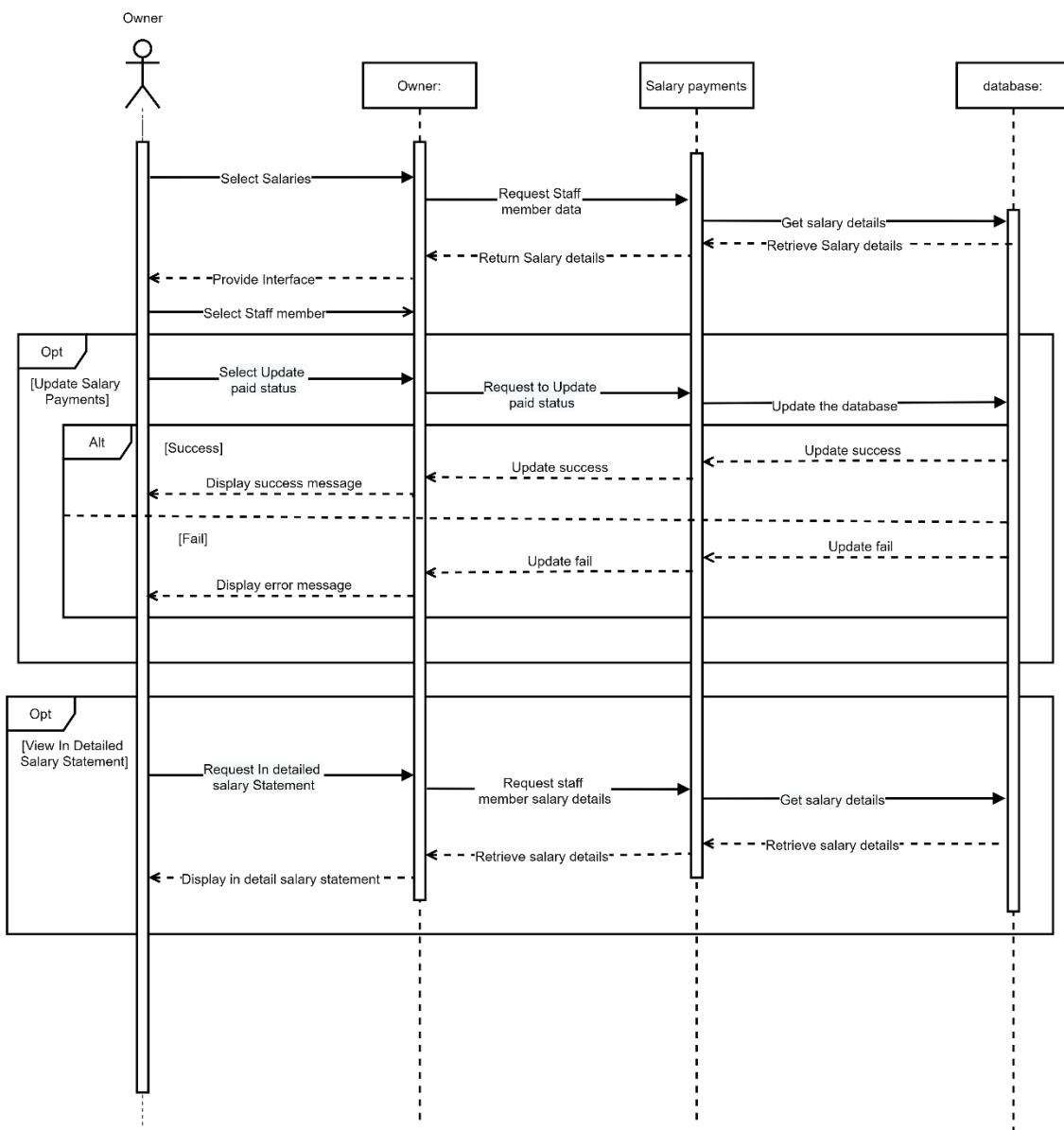


Figure 40: View/Update Salary Payments (Sequence Diagram)

Download system log file

System Admin

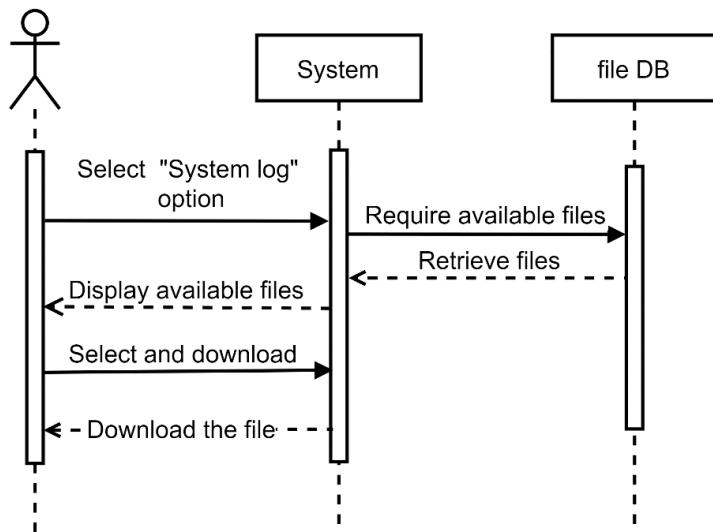


Figure 41: Download System Log File (Sequence Diagram)

Change Rates

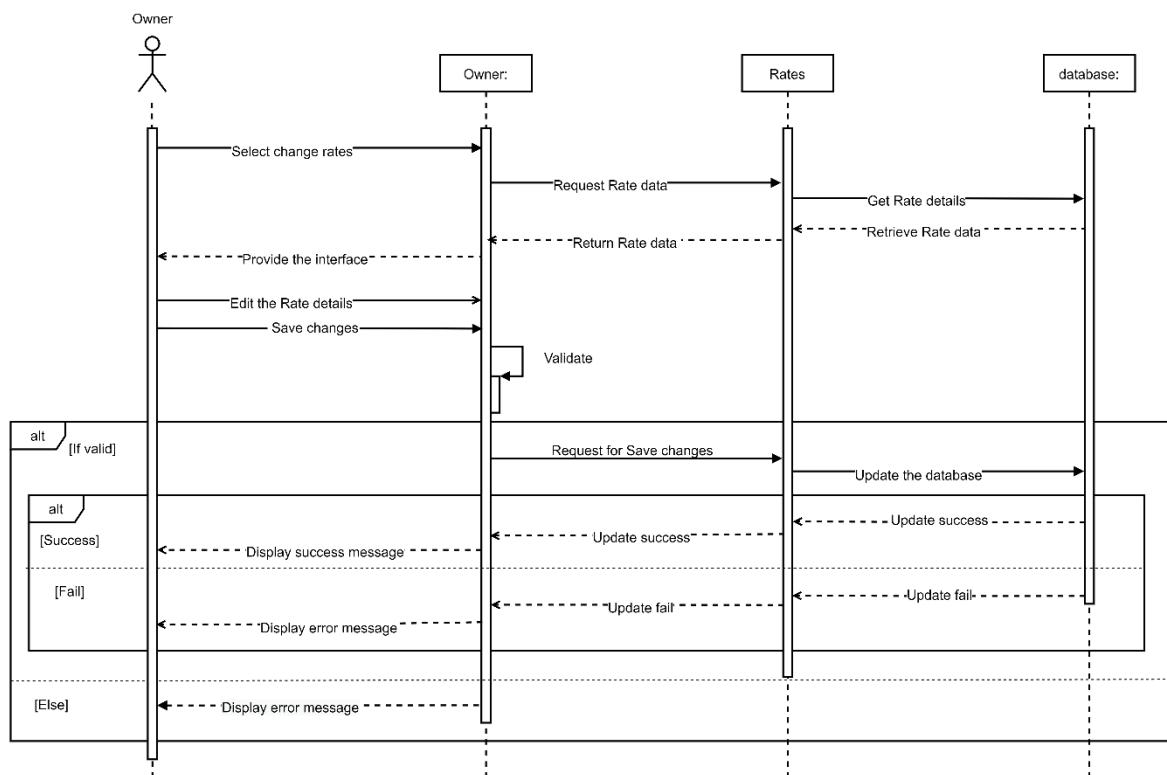


Figure 42: Change Rates (Sequence Diagram)

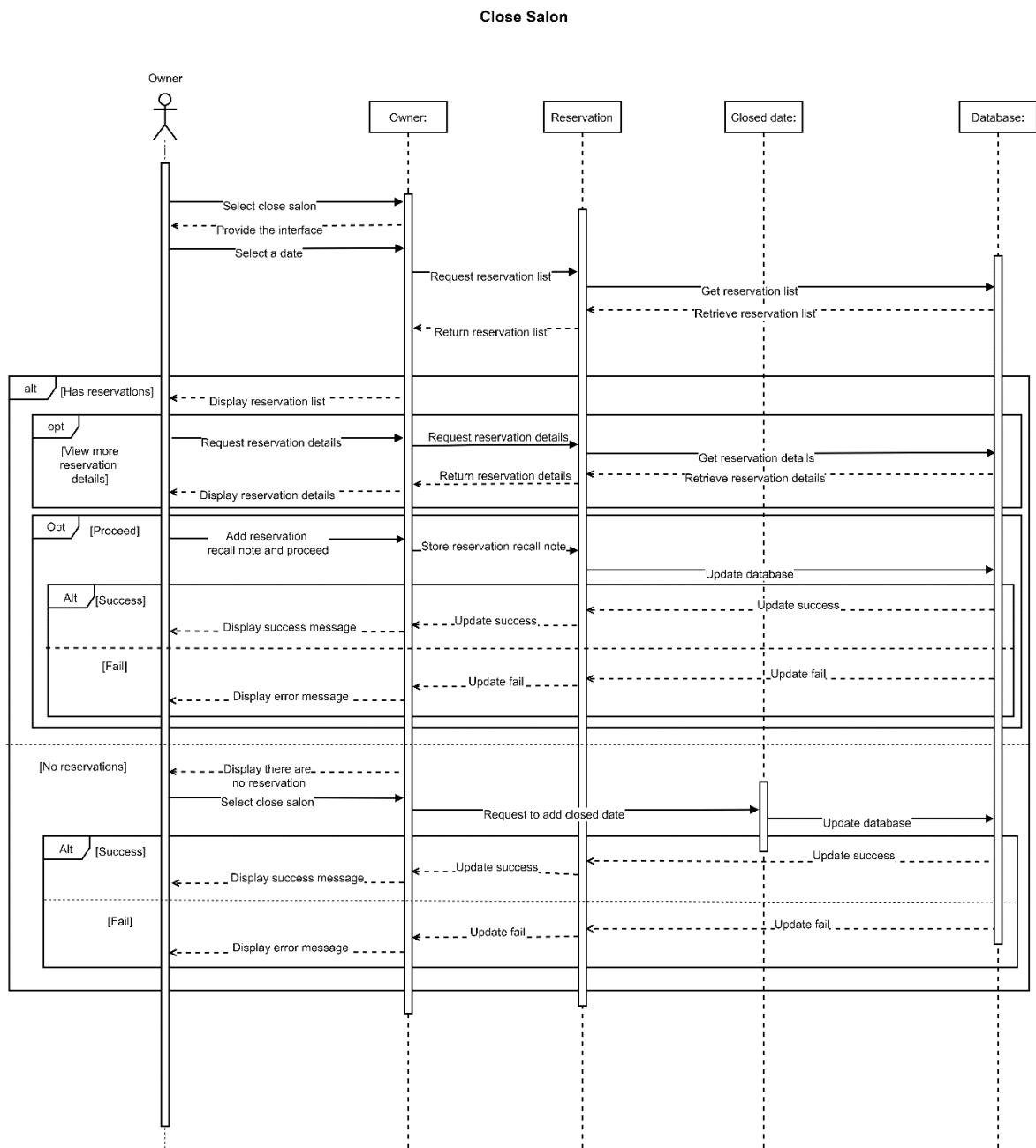


Figure 43: Close Salon (Sequence Diagram)

Add Resource

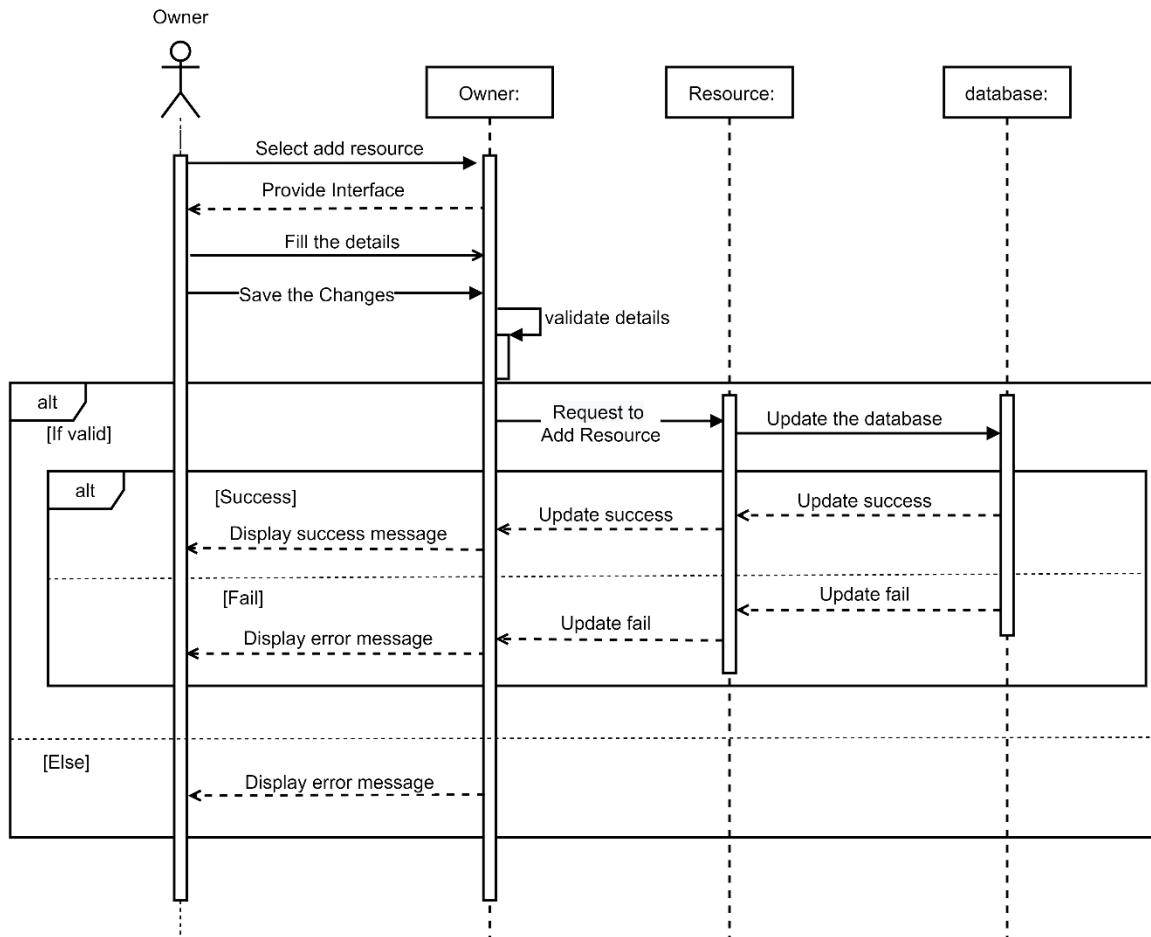


Figure 44: Add Resource (Sequence Diagram)

Update Resource

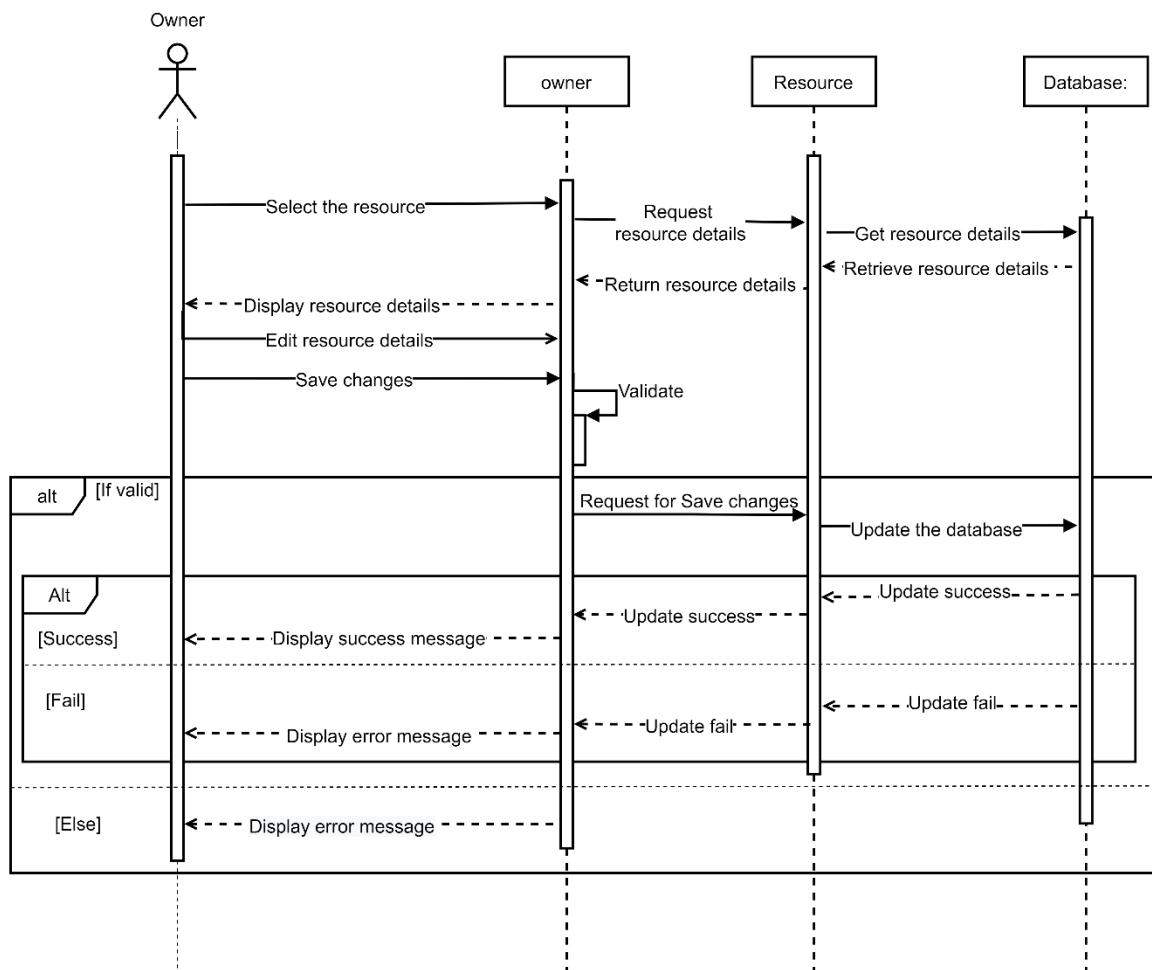


Figure 45: Update Resource (Sequence Diagram)

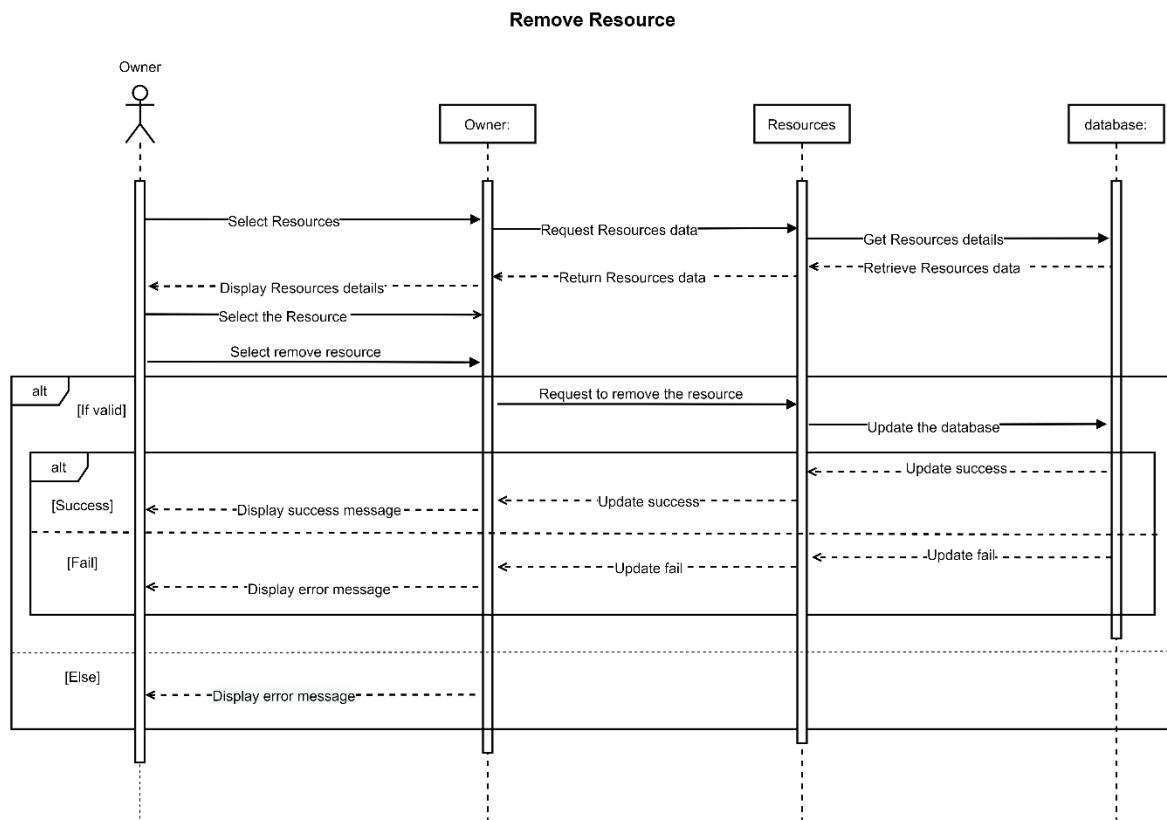


Figure 46: Remove Resource (Sequence Diagram)

5.4. Activity Diagrams

Link to Activity Diagrams: https://bit.ly/Activity_Diagrams_CS30

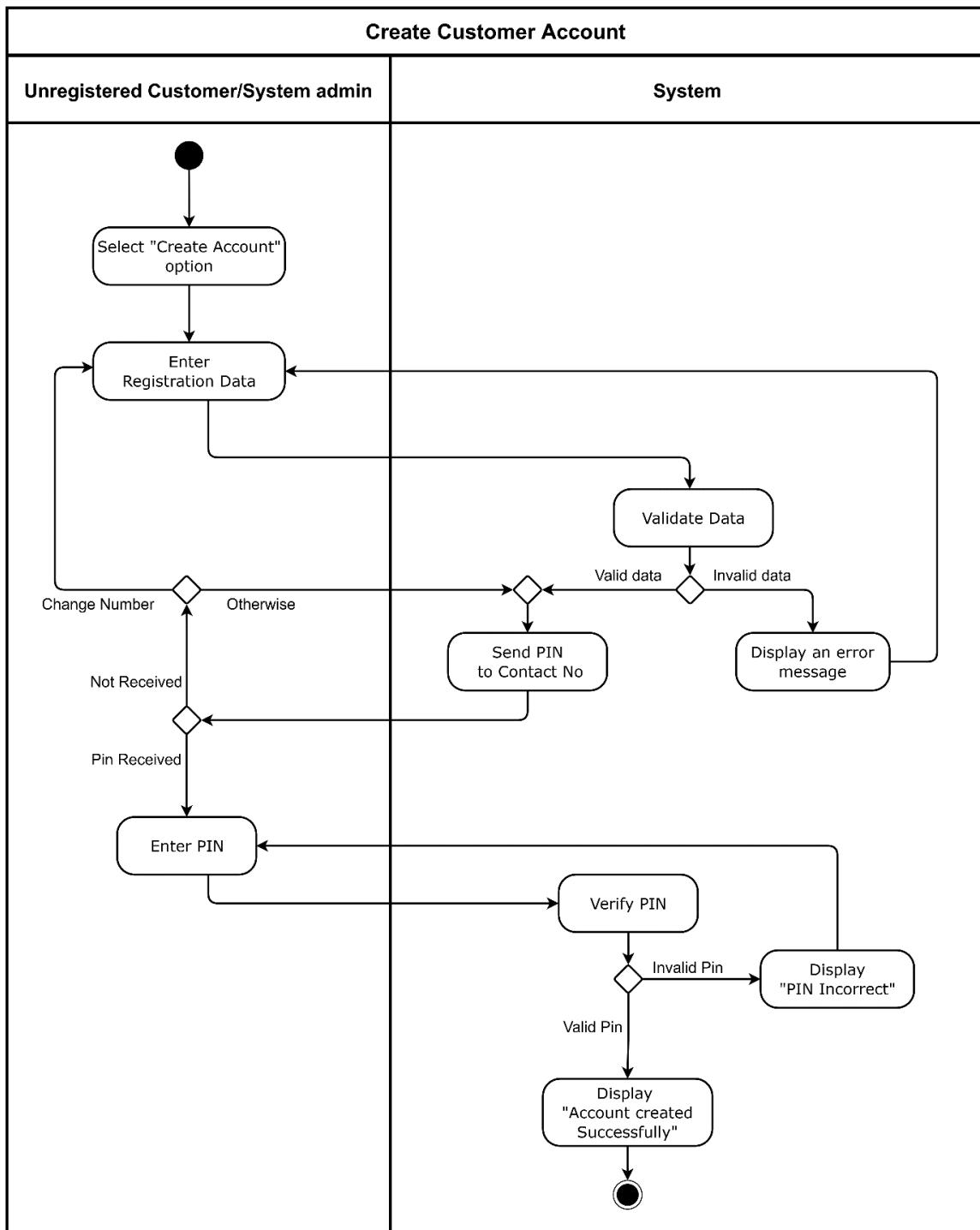


Figure 47: Create Customer Account (Activity Diagram)

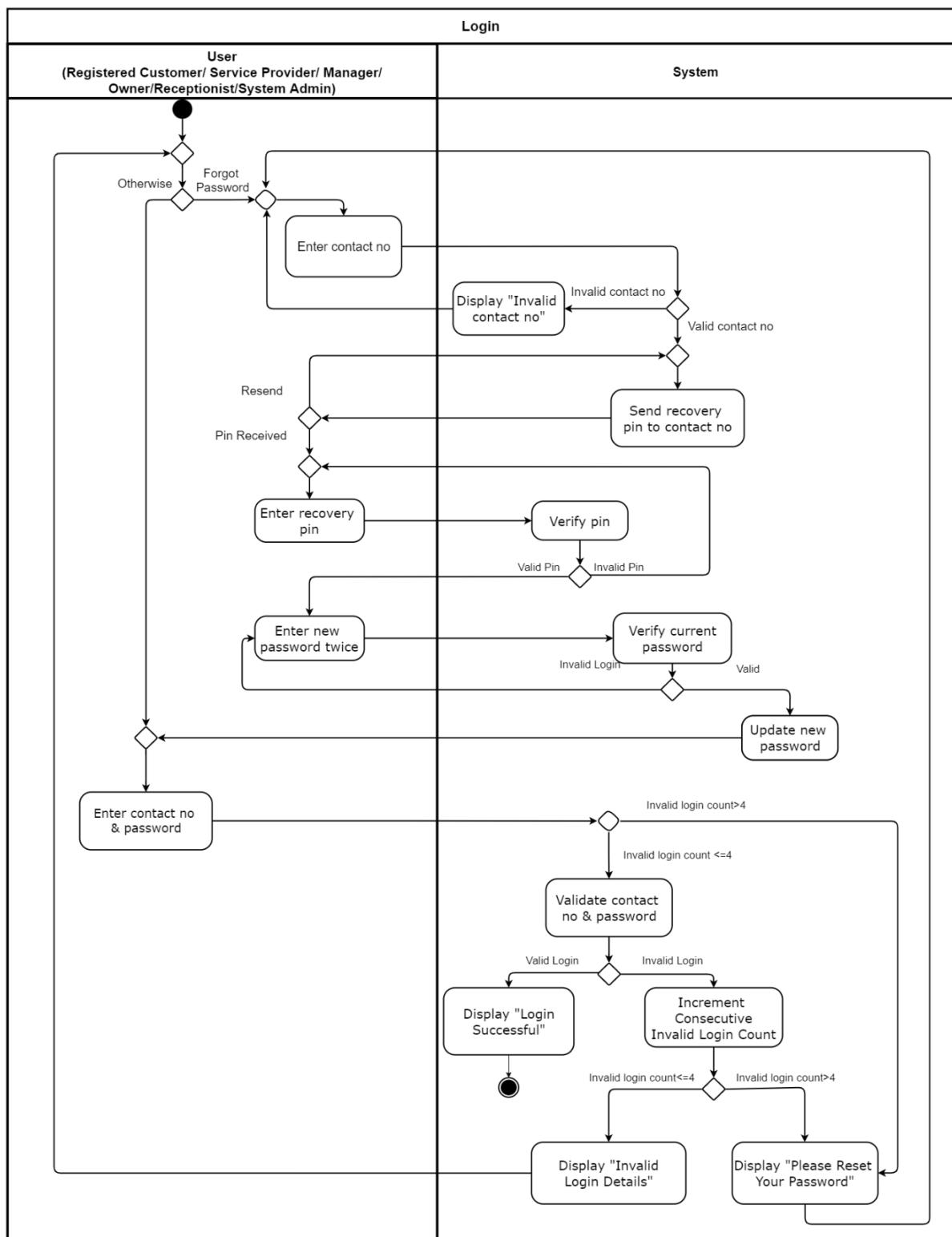


Figure 48: Login (Activity Diagram)

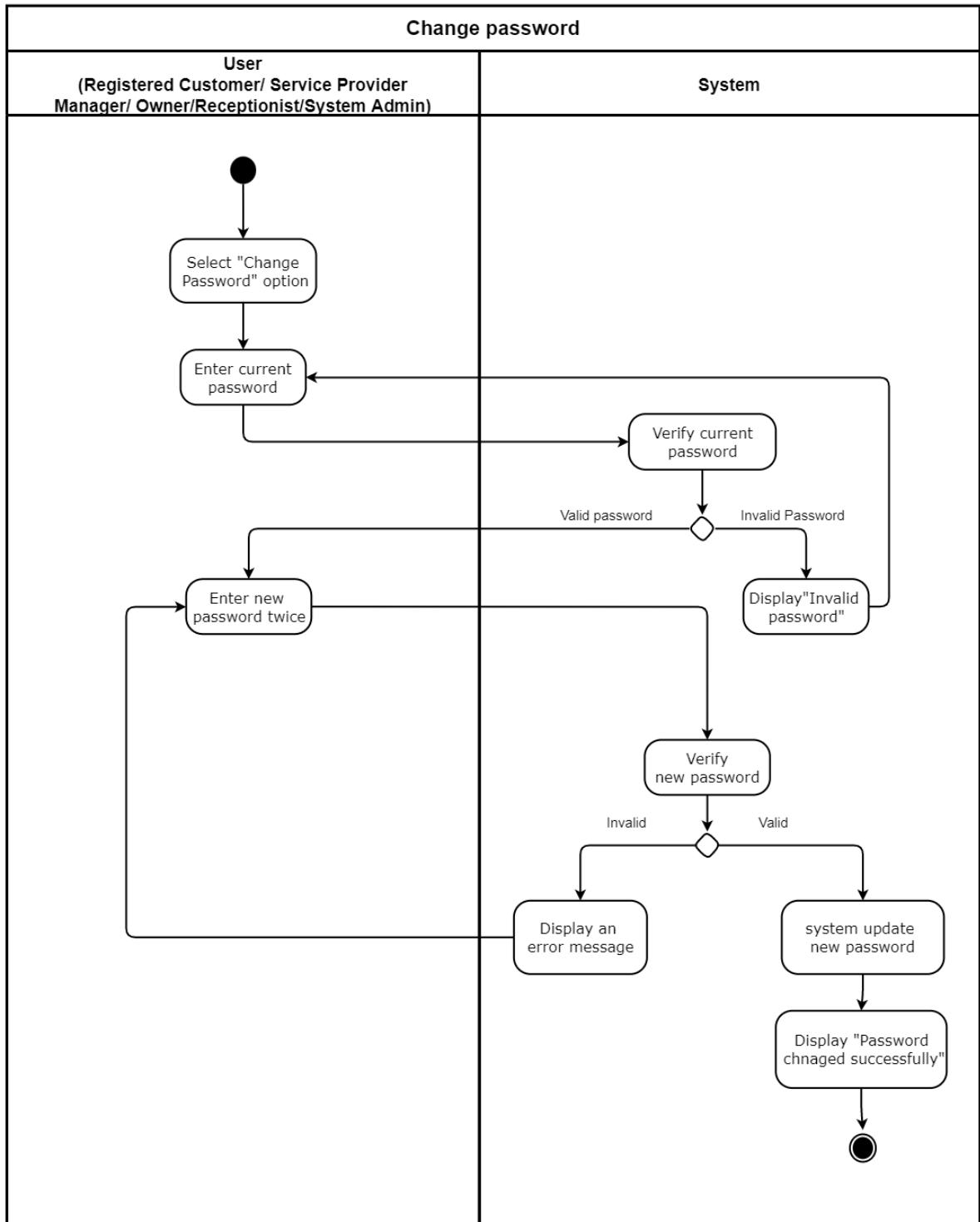


Figure 49: Change Password (Activity Diagram)

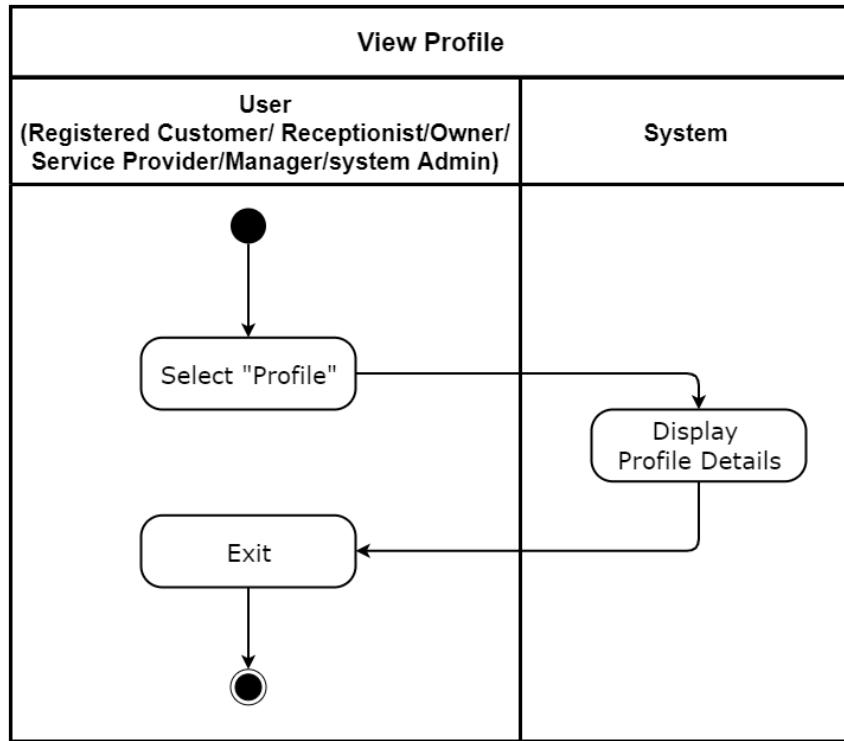


Figure 50: View Profile (Activity Diagram)

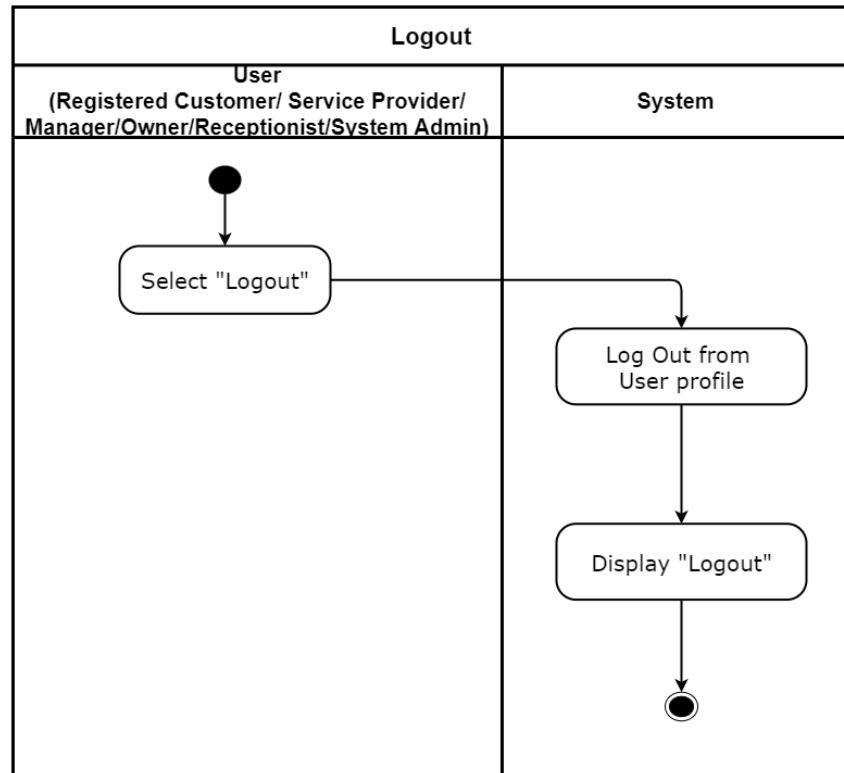


Figure 51: Logout (Activity Diagram)

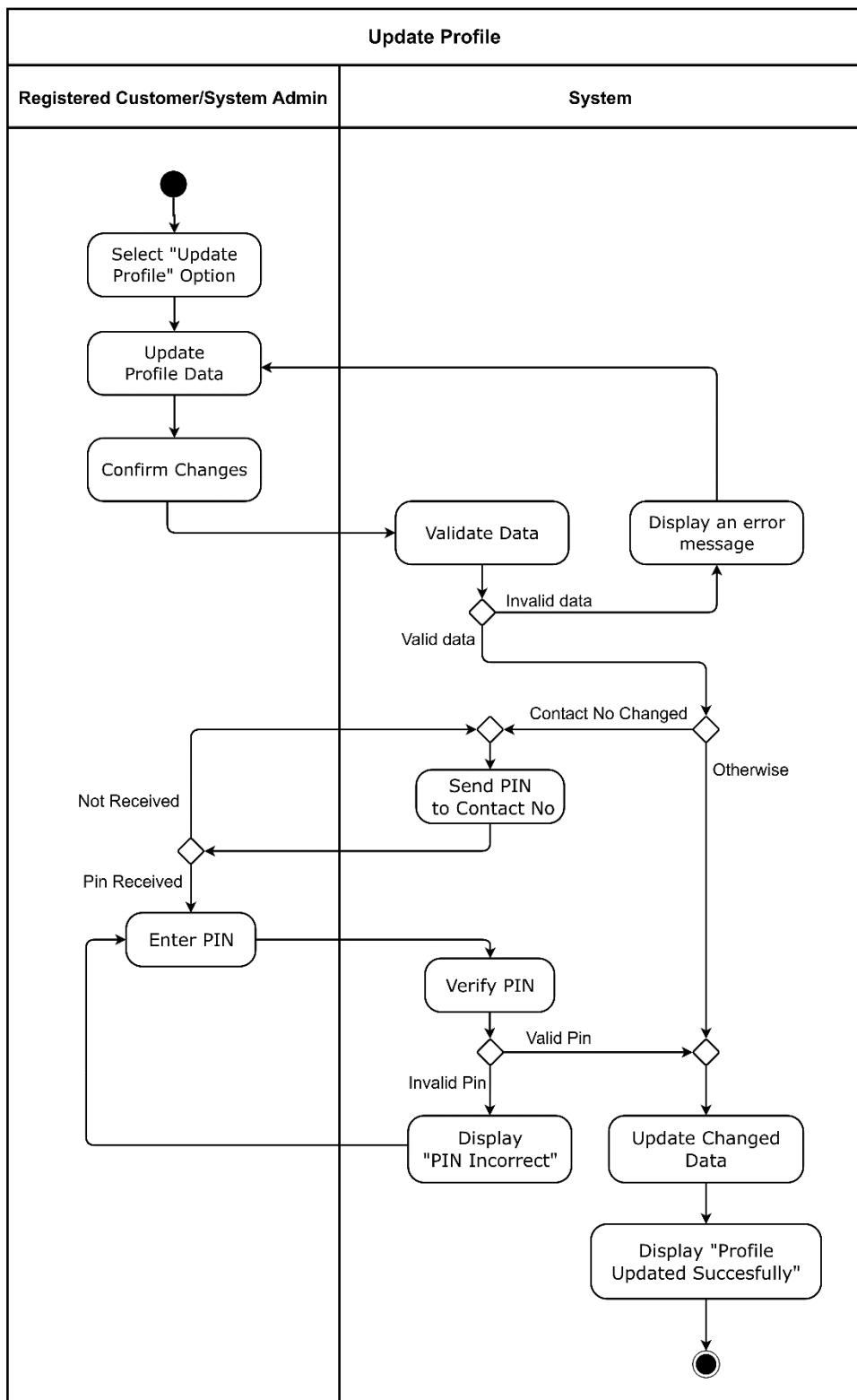


Figure 52: Update Profile (Activity Diagram)

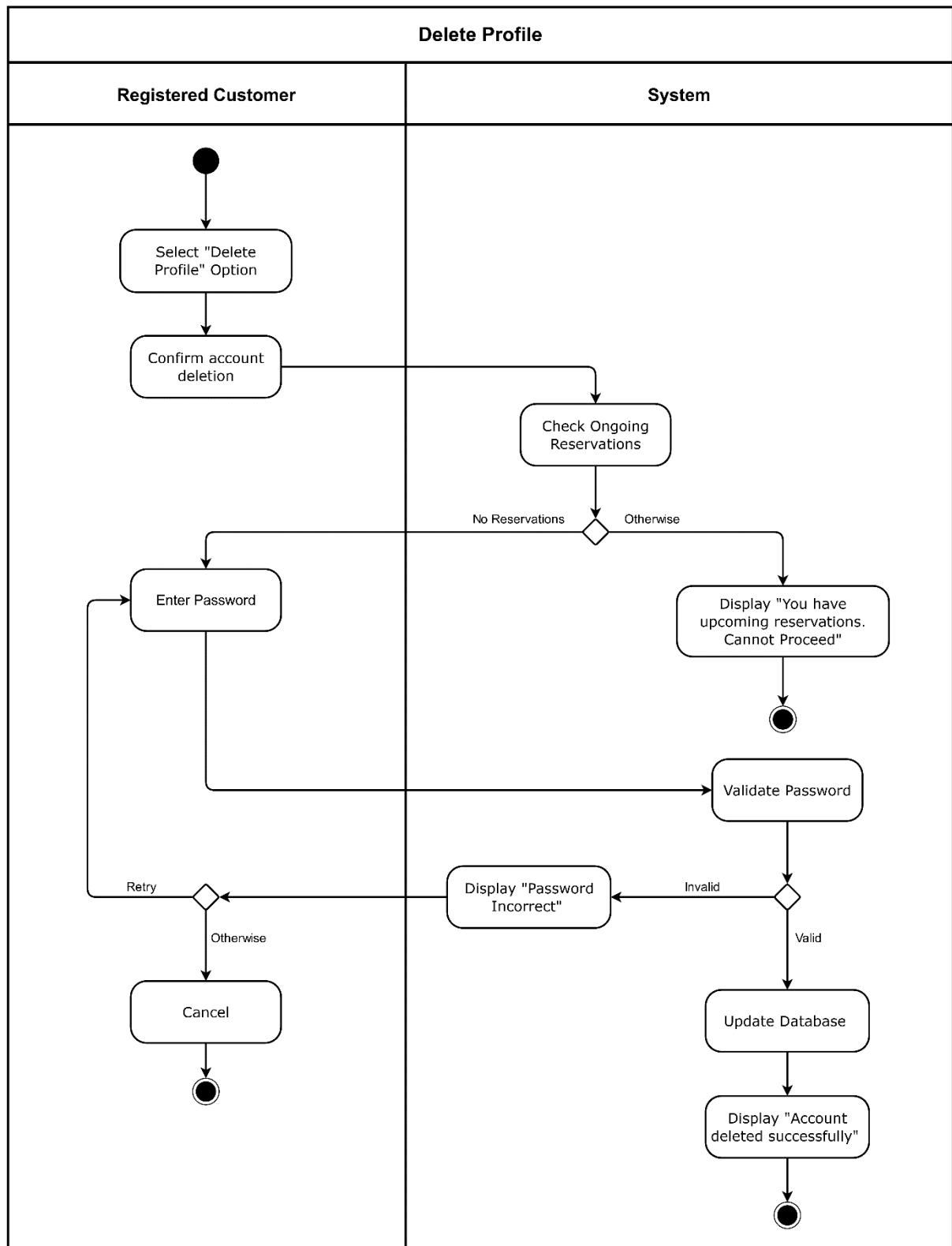


Figure 53: Delete Profile (Activity Diagram)

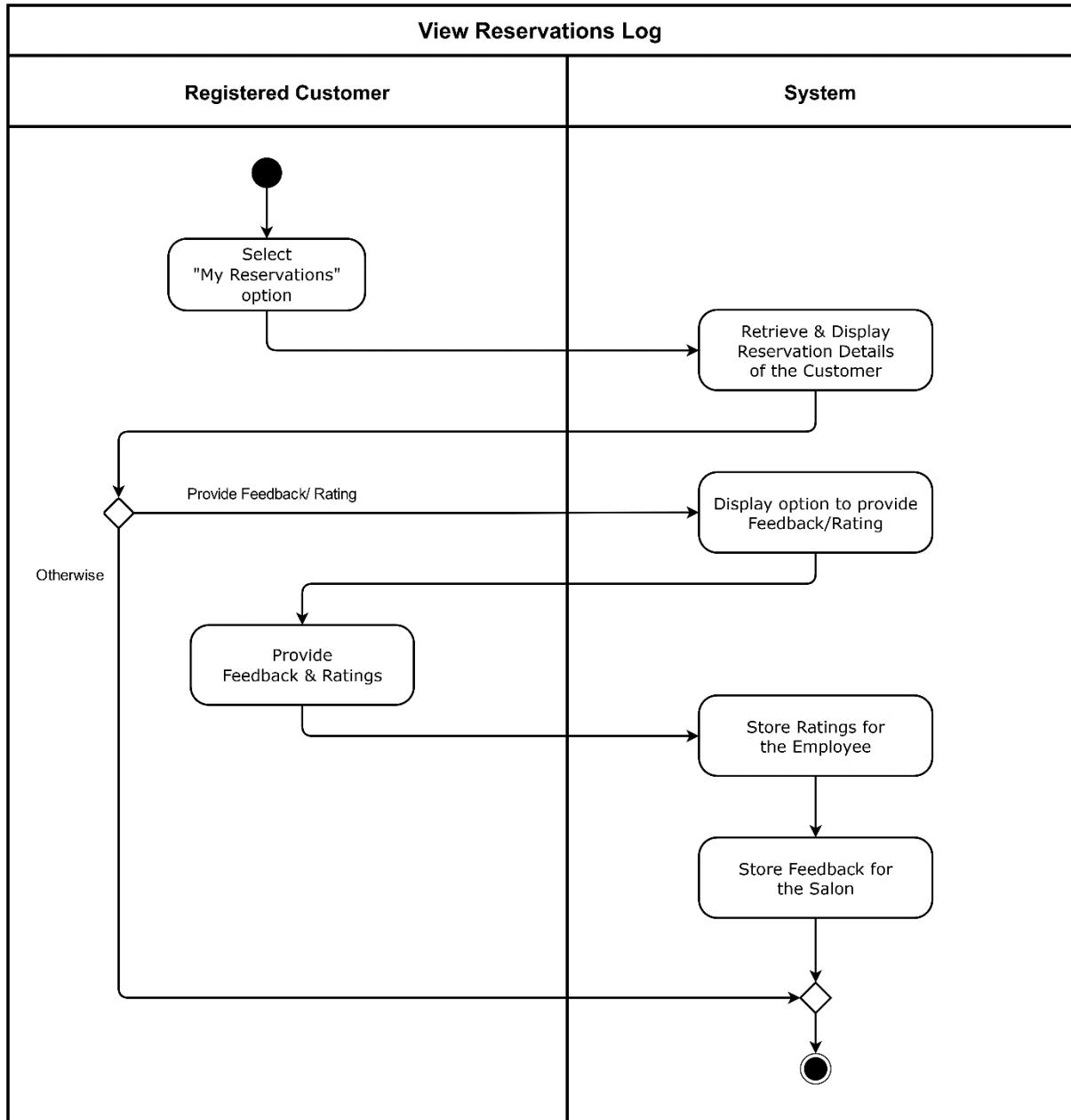


Figure 54: View Reservation Log (Activity Diagram)

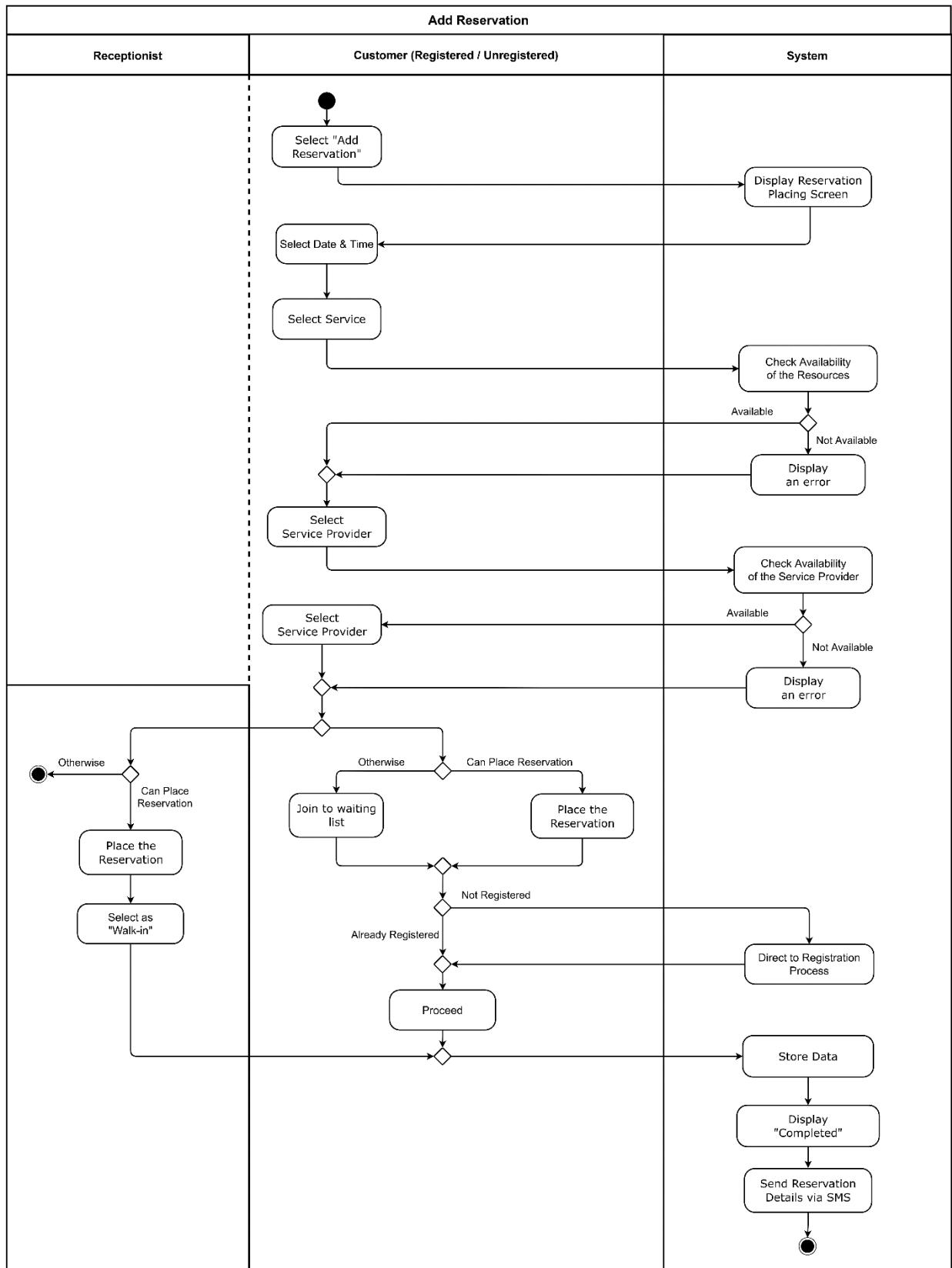


Figure 55: Add Reservation (Activity Diagram)

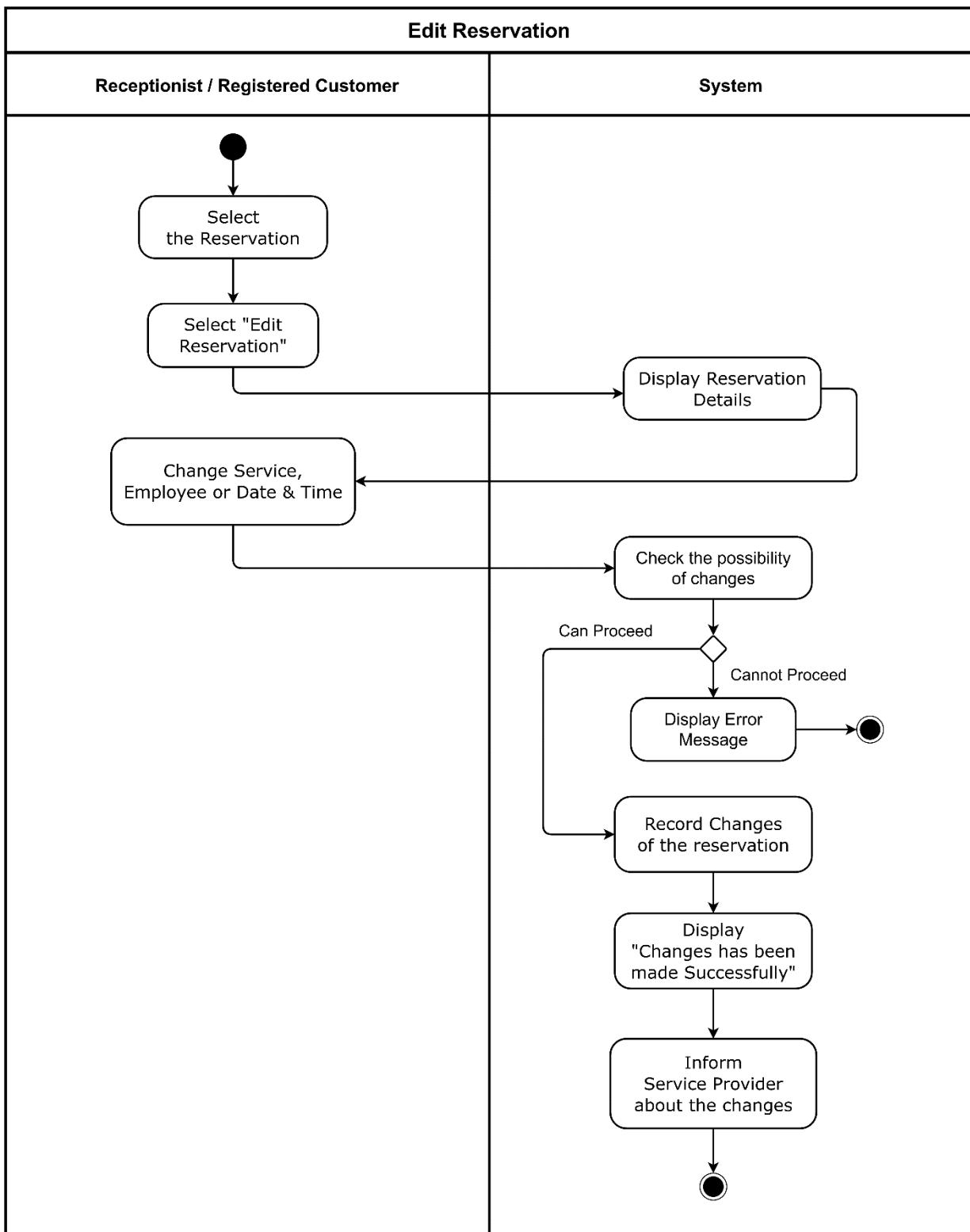


Figure 56: Edit Reservation (Activity Diagram)

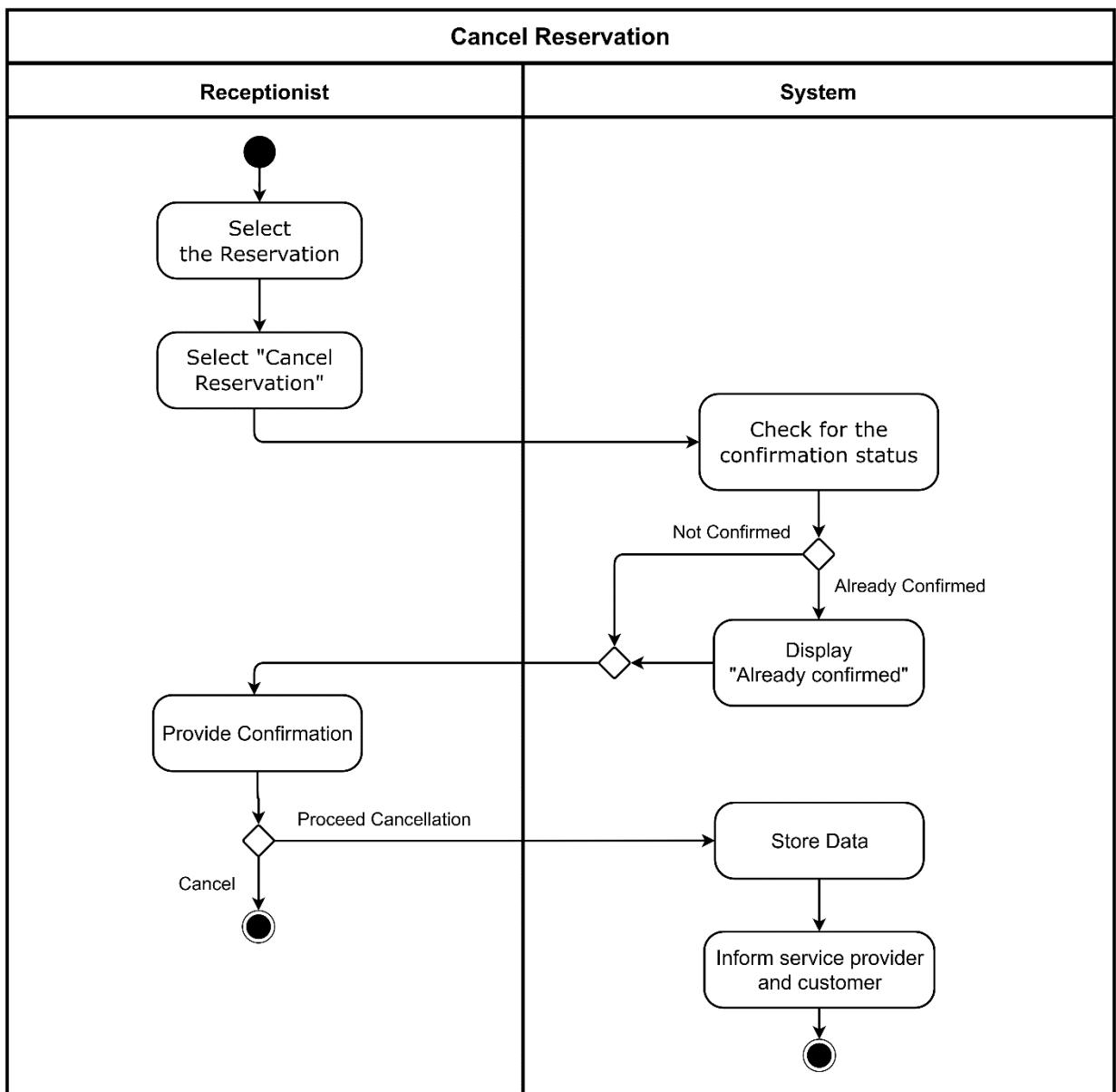


Figure 57: Cancel Reservation A (Activity Diagram)

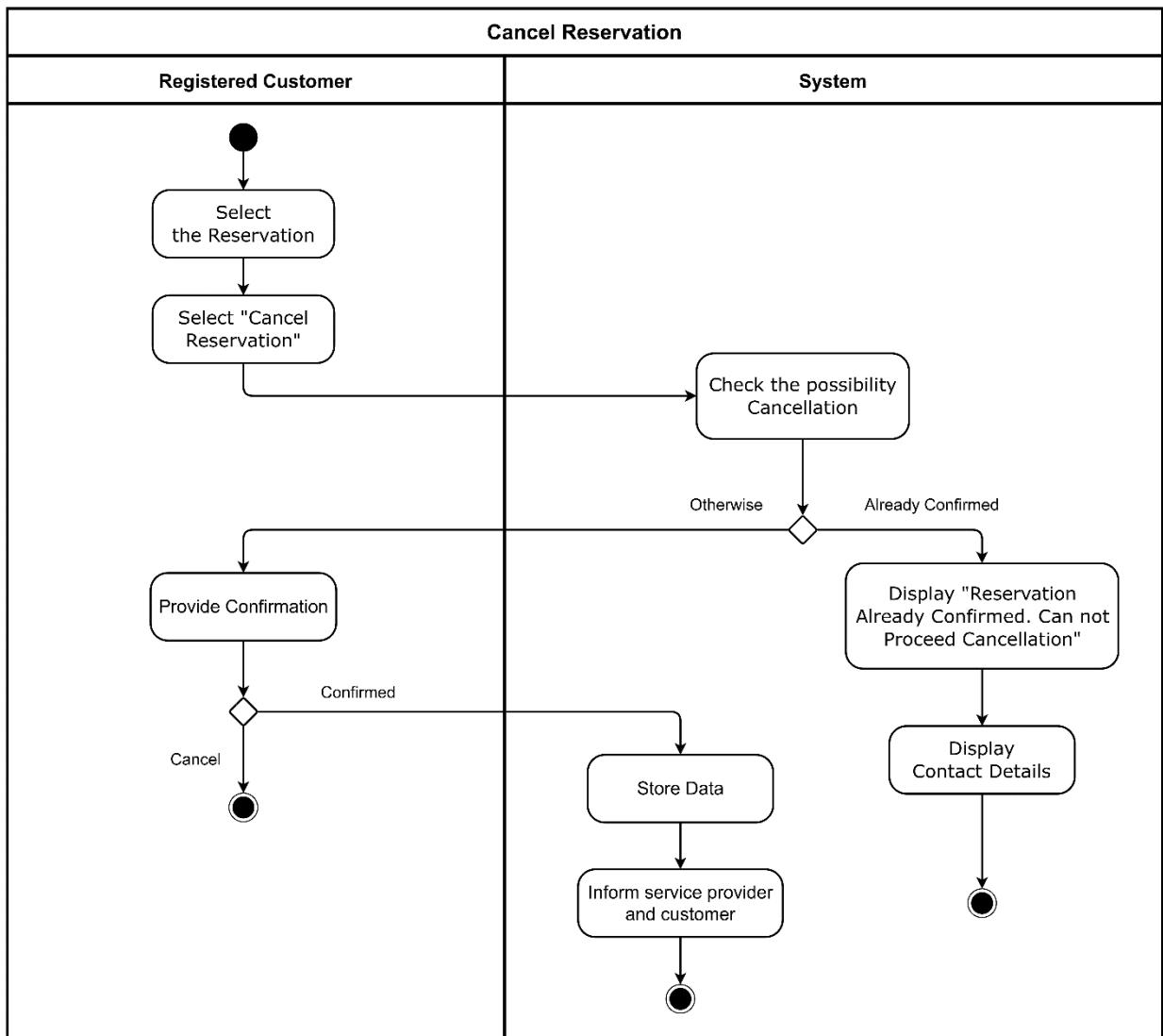


Figure 58: Cancel Reservation B (Activity Diagram)

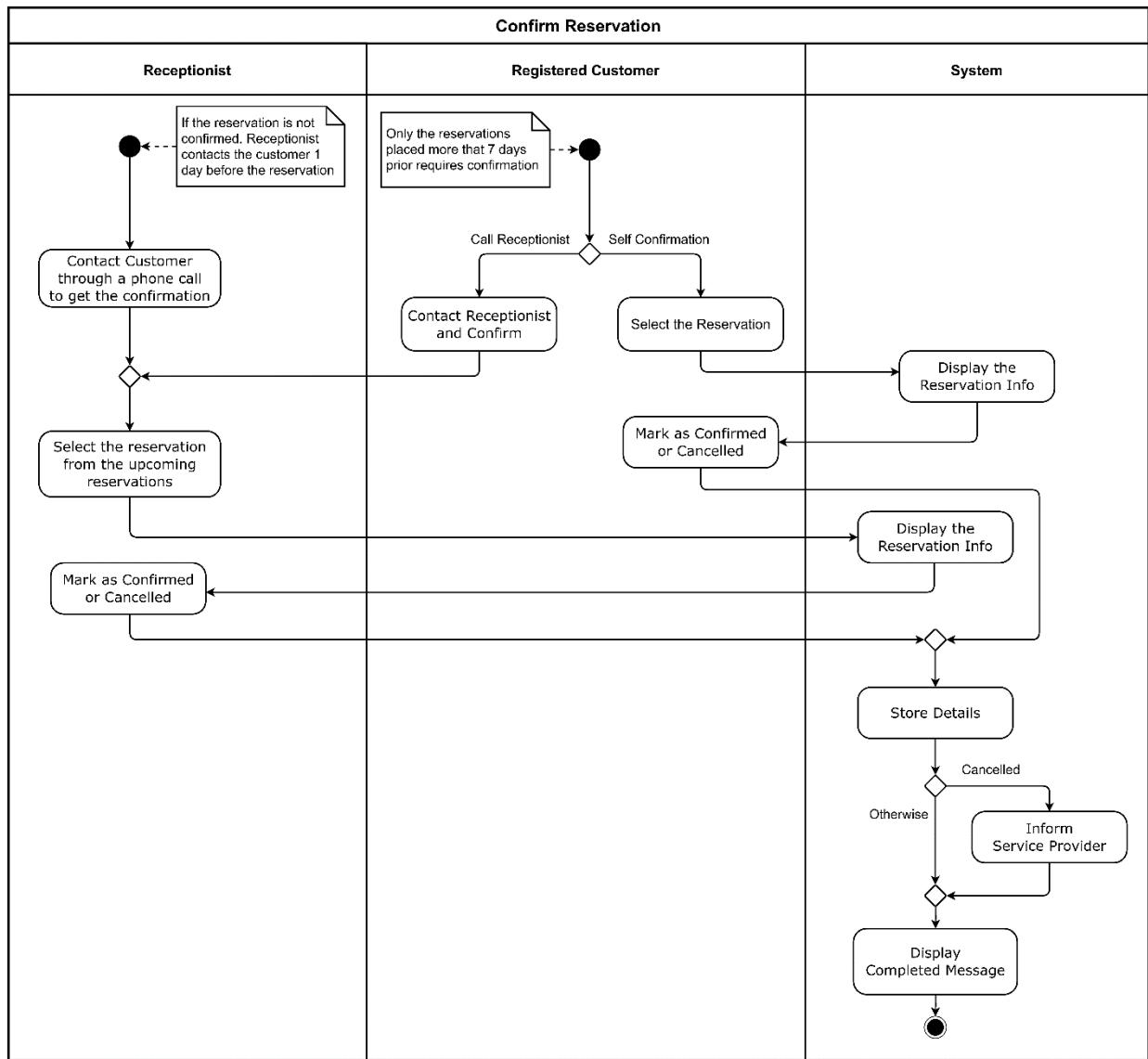


Figure 59: Confirm Reservation (Activity Diagram)

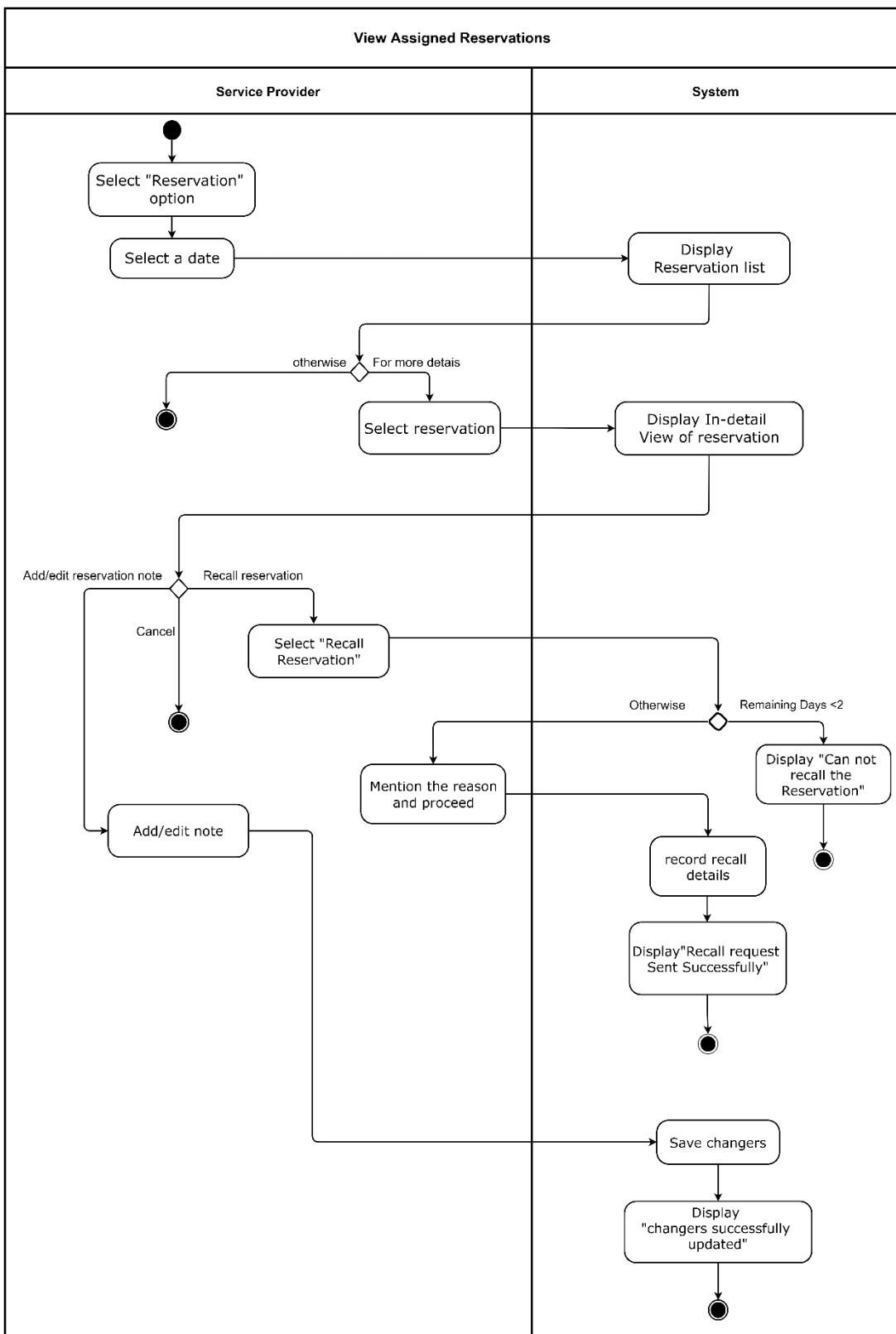


Figure 60: View Assigned Reservation (Activity Diagram)

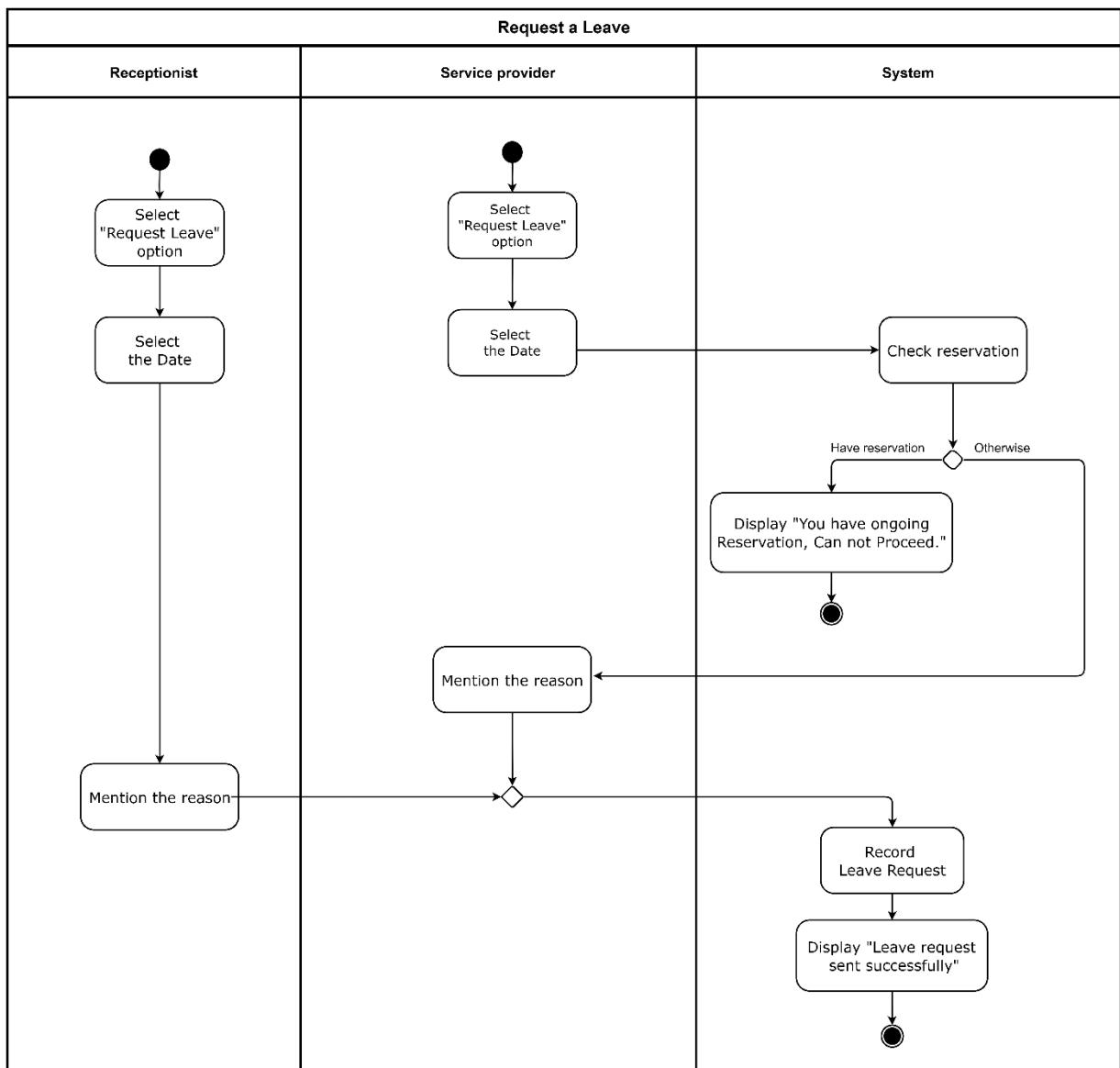


Figure 61: Request a Leave (Activity Diagram)

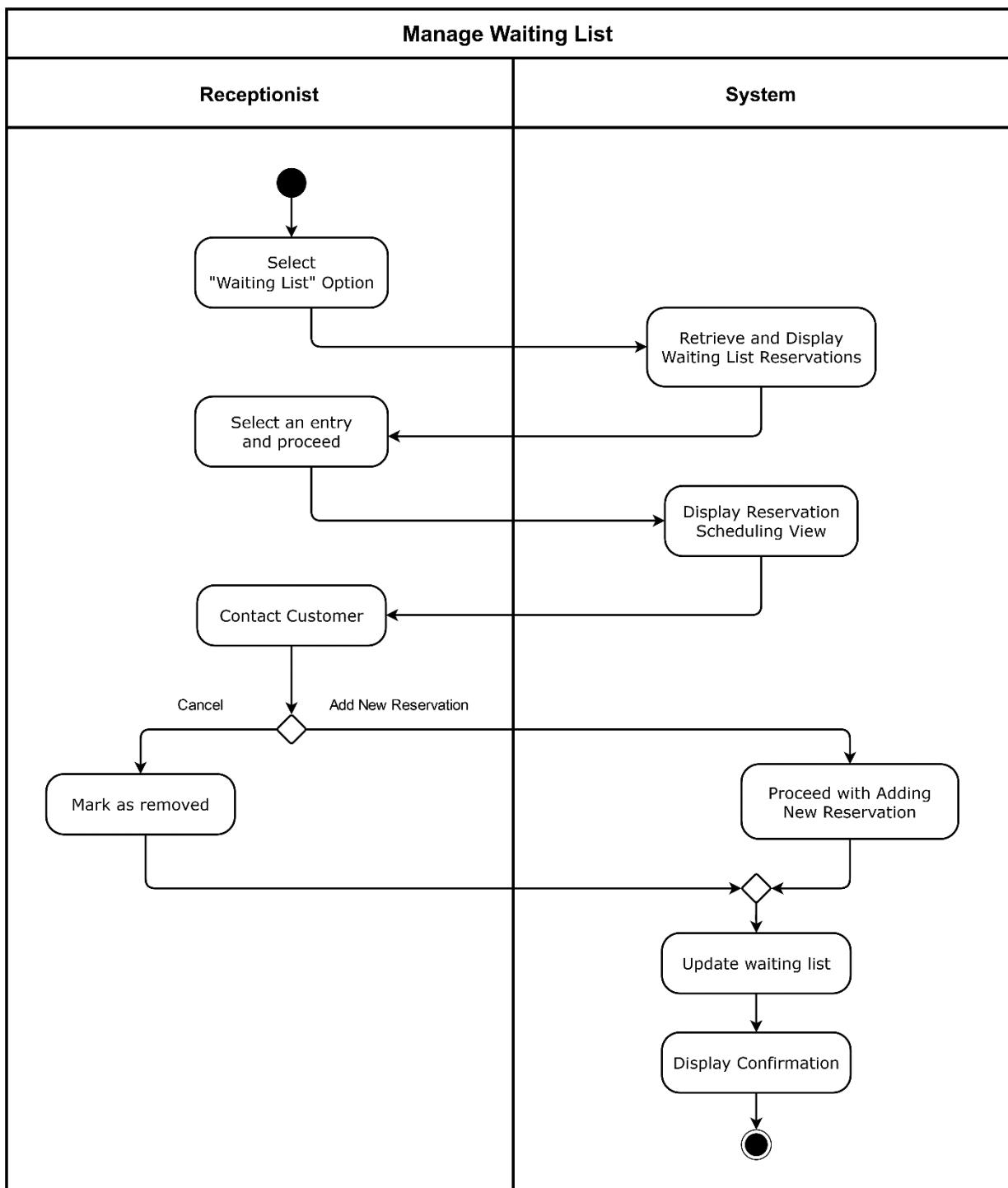


Figure 62: Manage Waiting List (Activity Diagram)

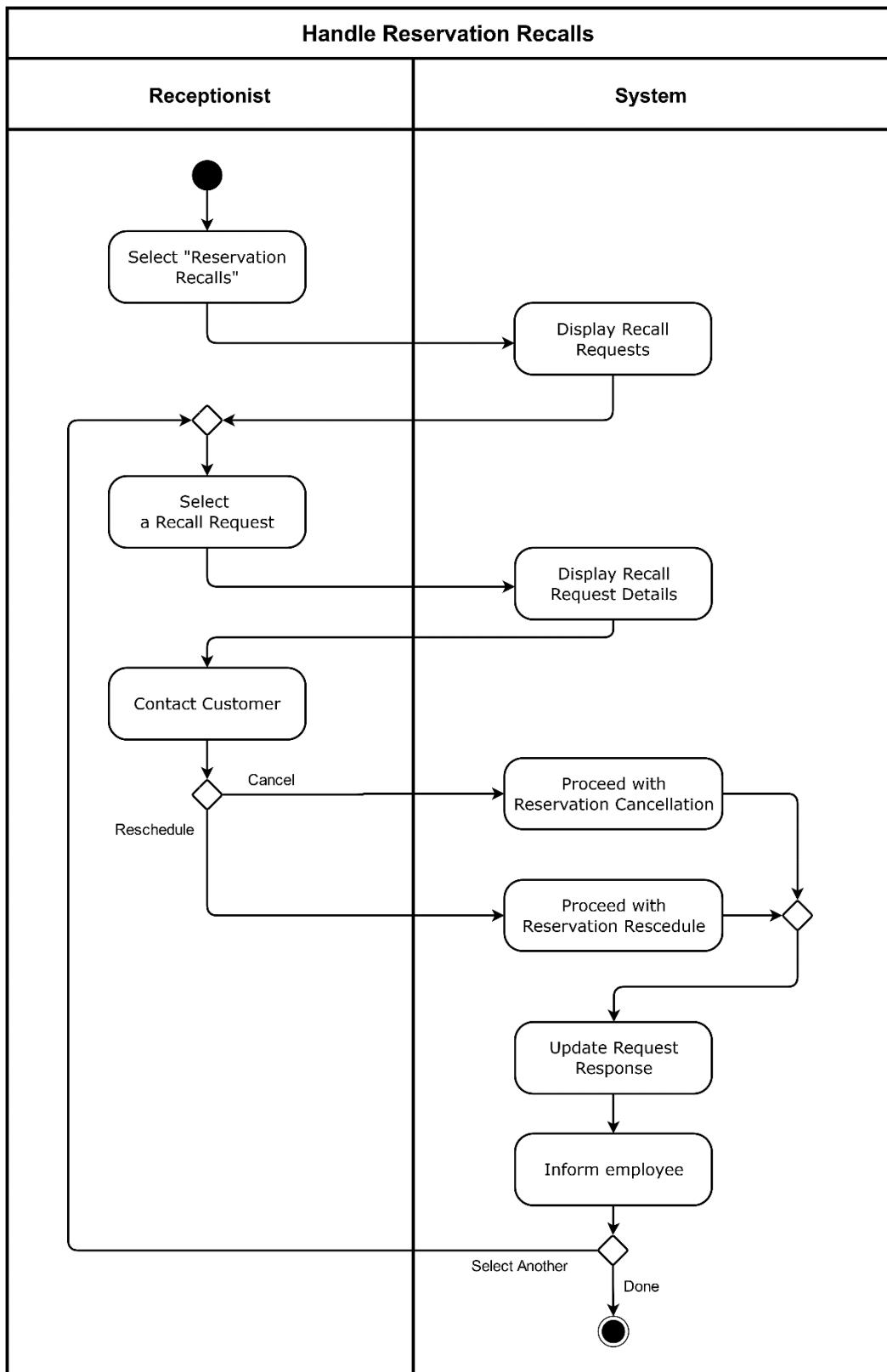


Figure 63: Handle Reservation Recalls (Activity Diagram)

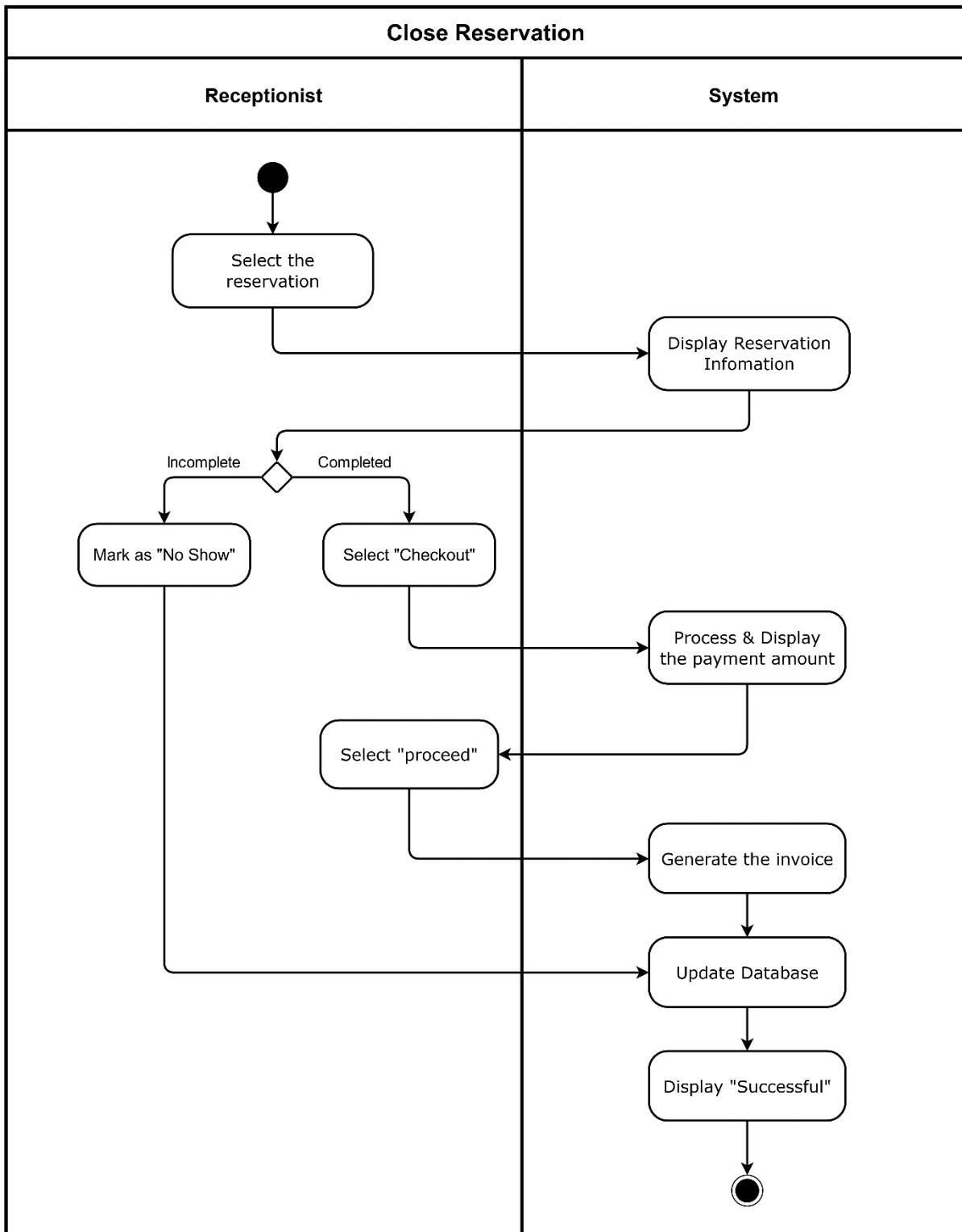


Figure 64: Close Reservation (Activity Diagram)

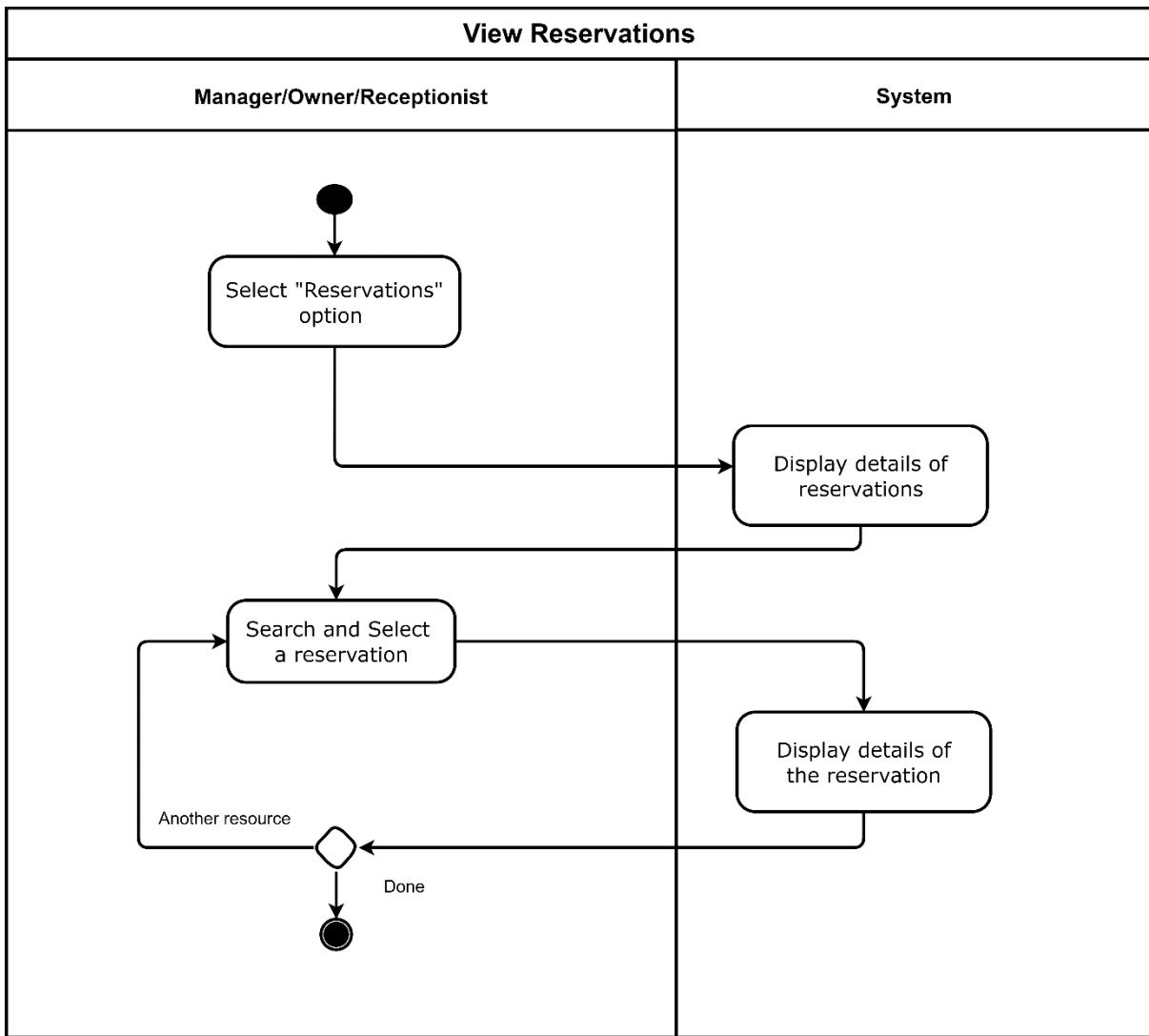


Figure 65: View Reservations (Activity Diagram)

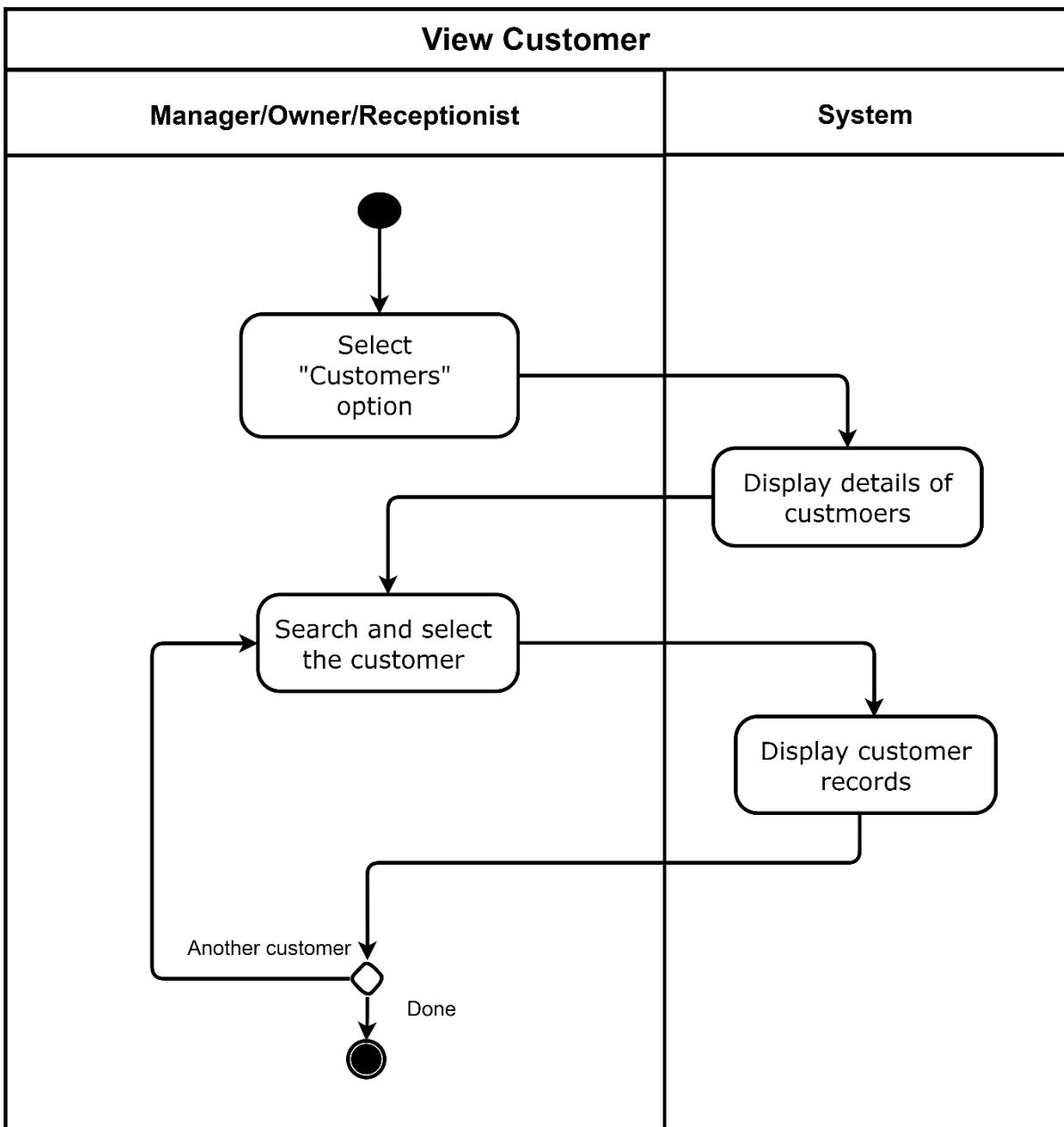


Figure 66: View Customer (Activity Diagram)

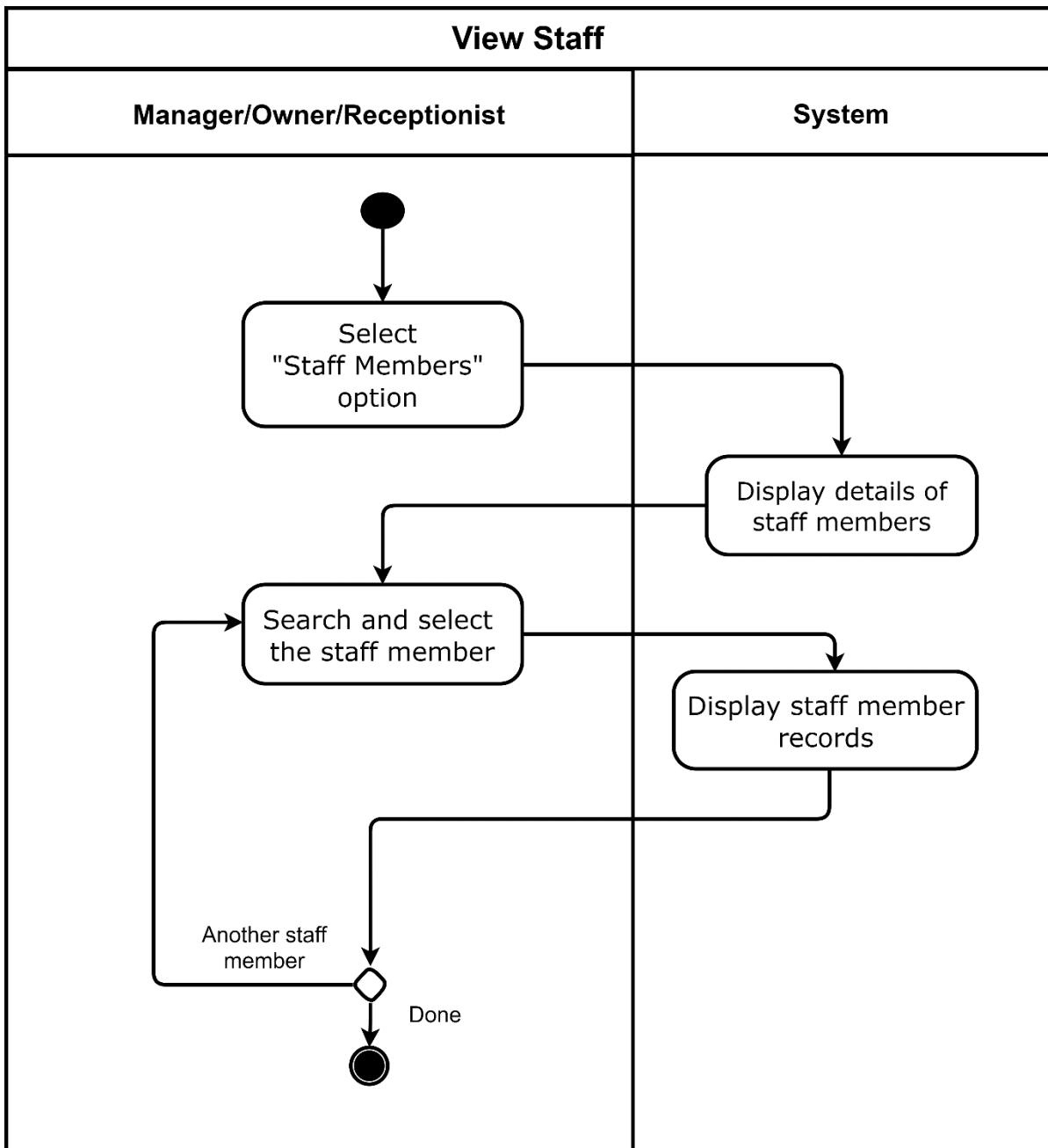


Figure 67: View Staff (Activity Diagram)

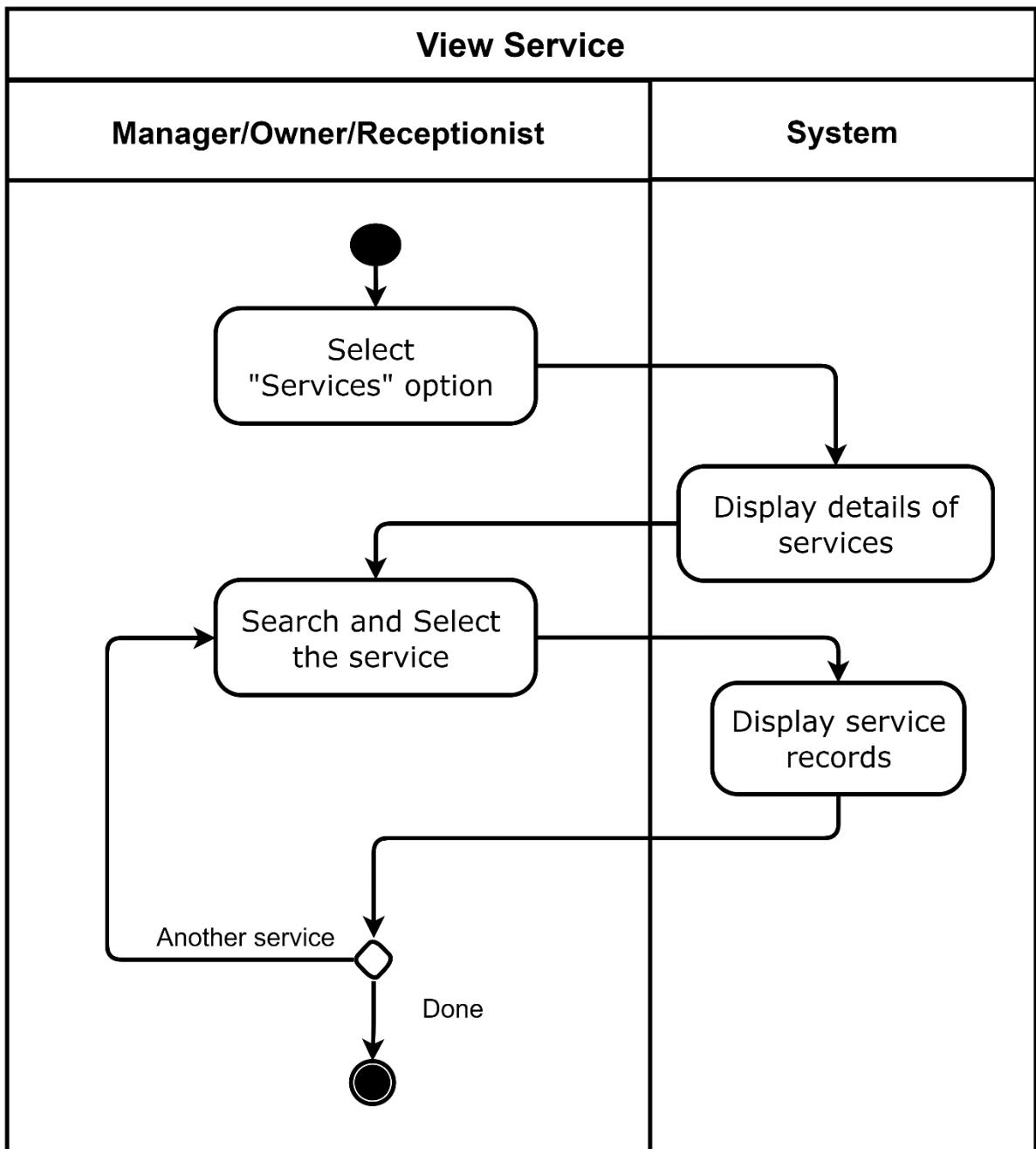


Figure 68: View Service (Activity Diagram)

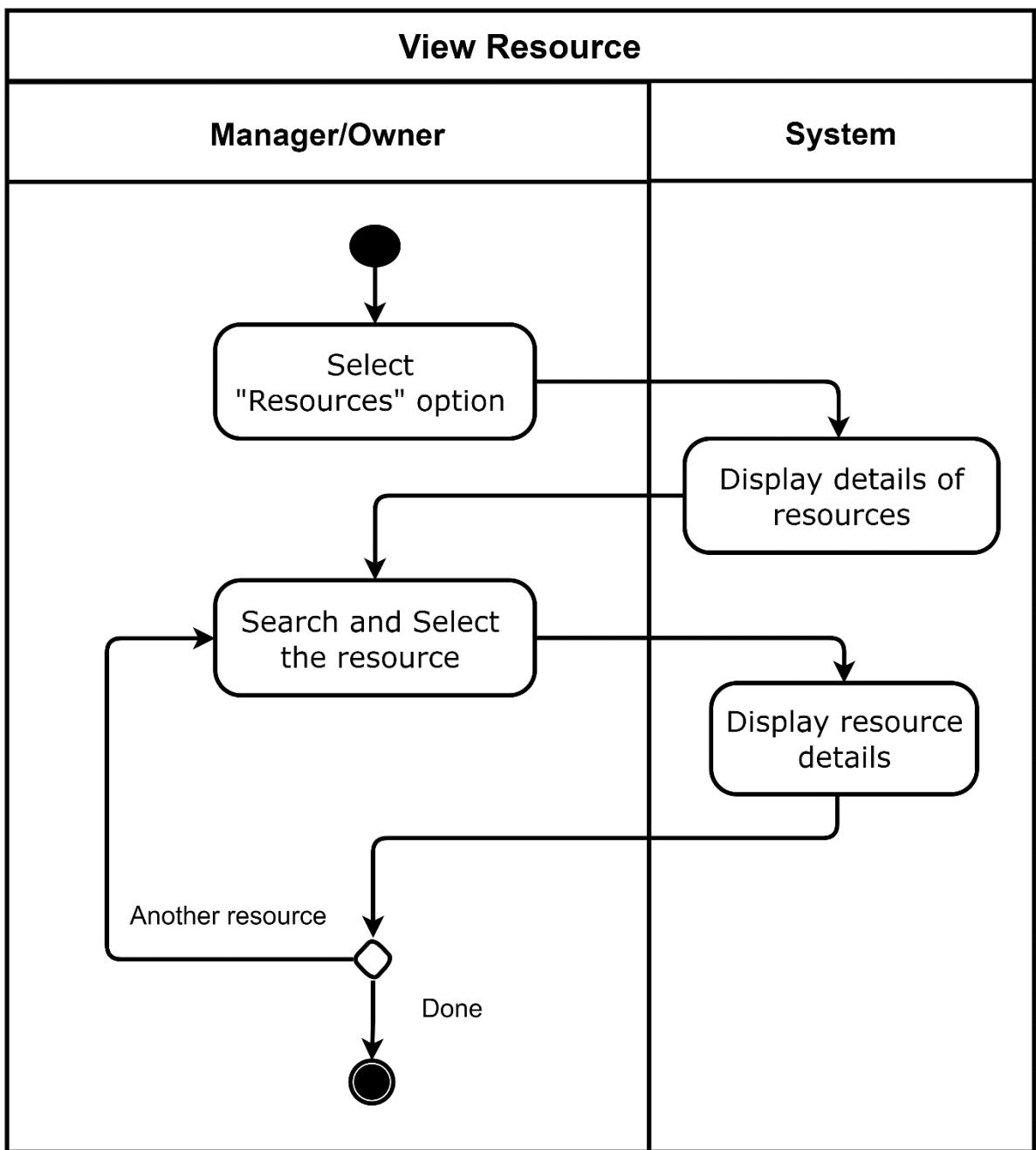


Figure 69: View Resource (Activity Diagram)

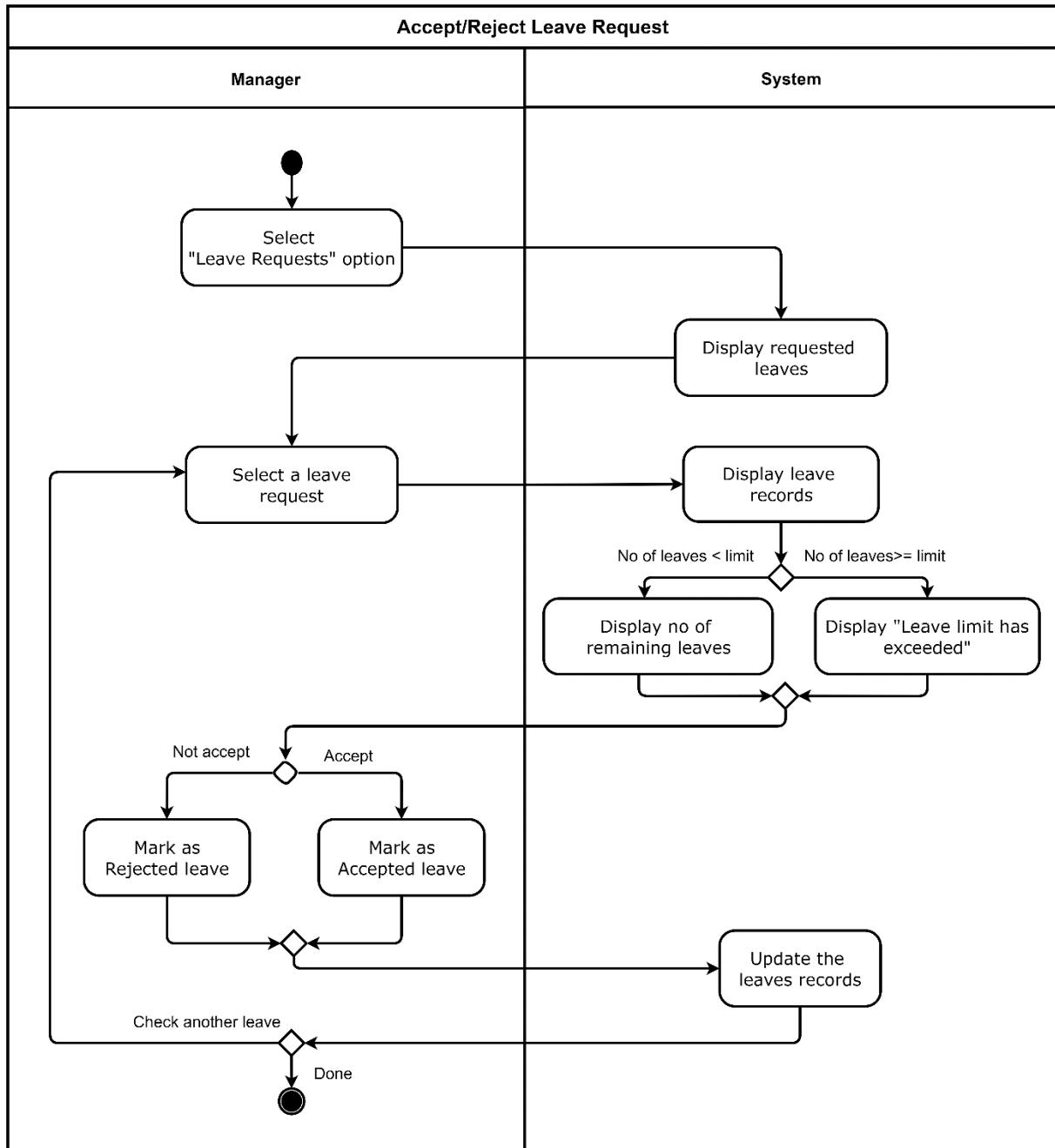


Figure 70: Accept/Reject Leave Request (Activity Diagram)

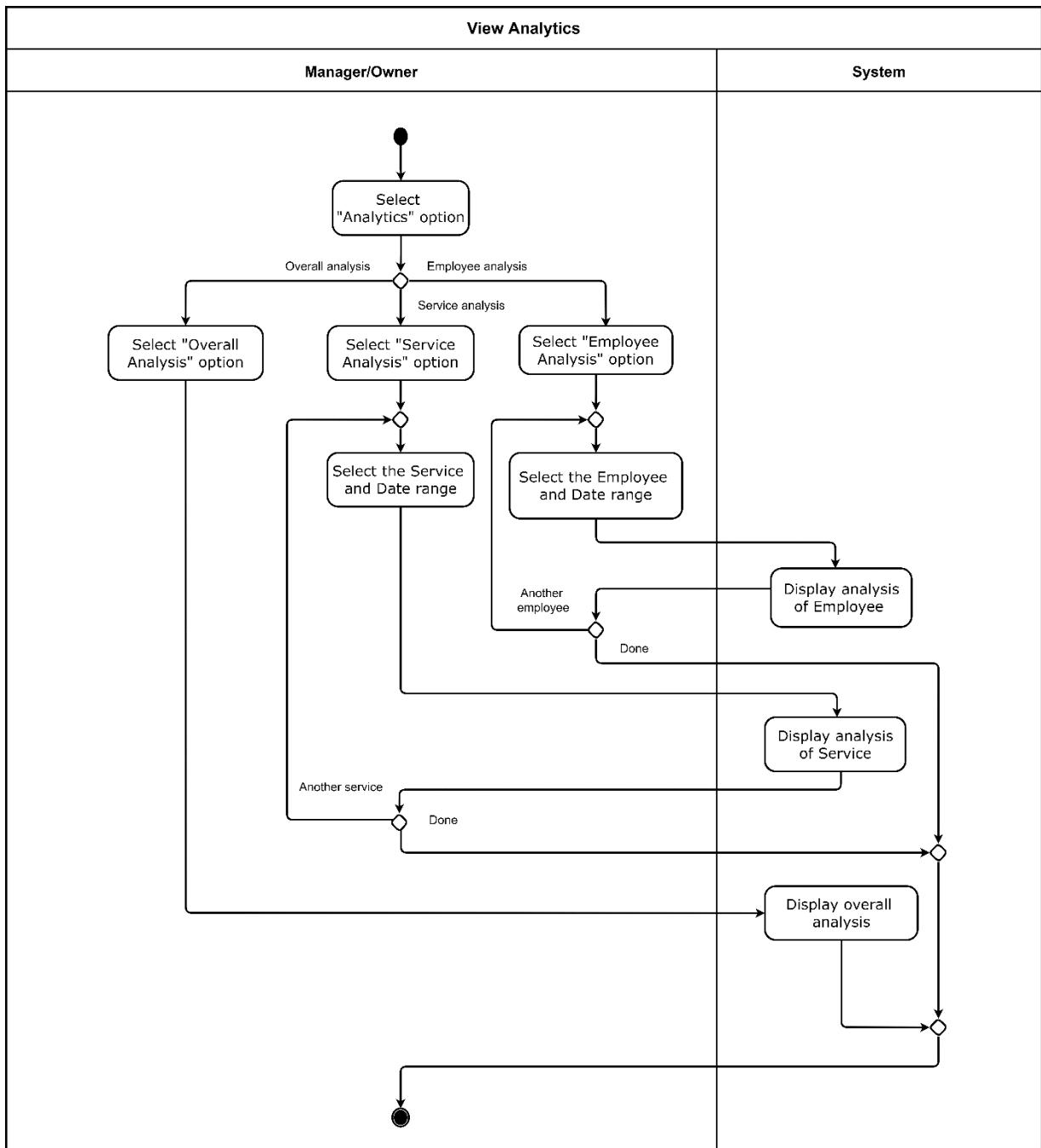


Figure 71: View Analytics (Activity Diagram)

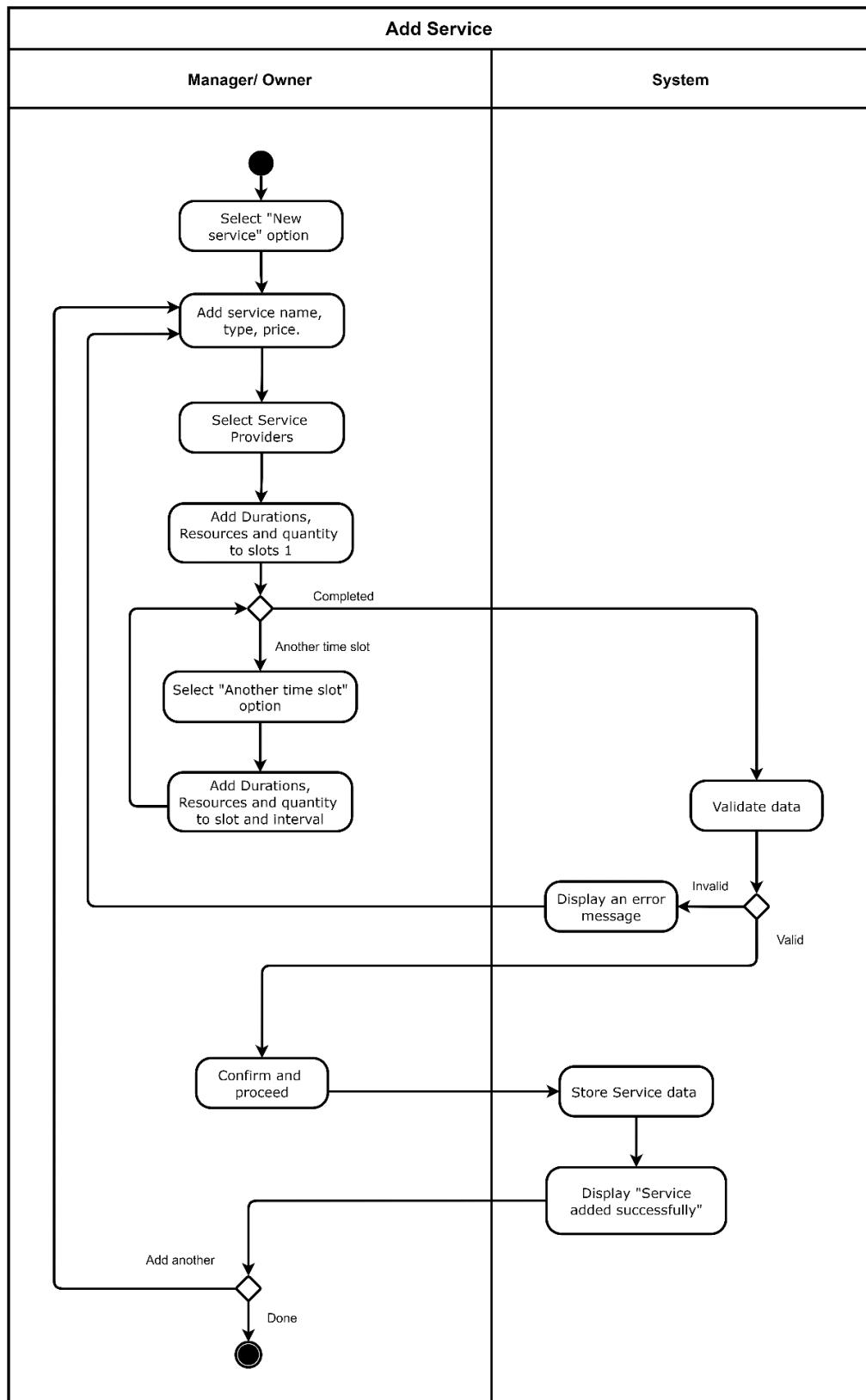


Figure 72: Add Service (Activity Diagram)

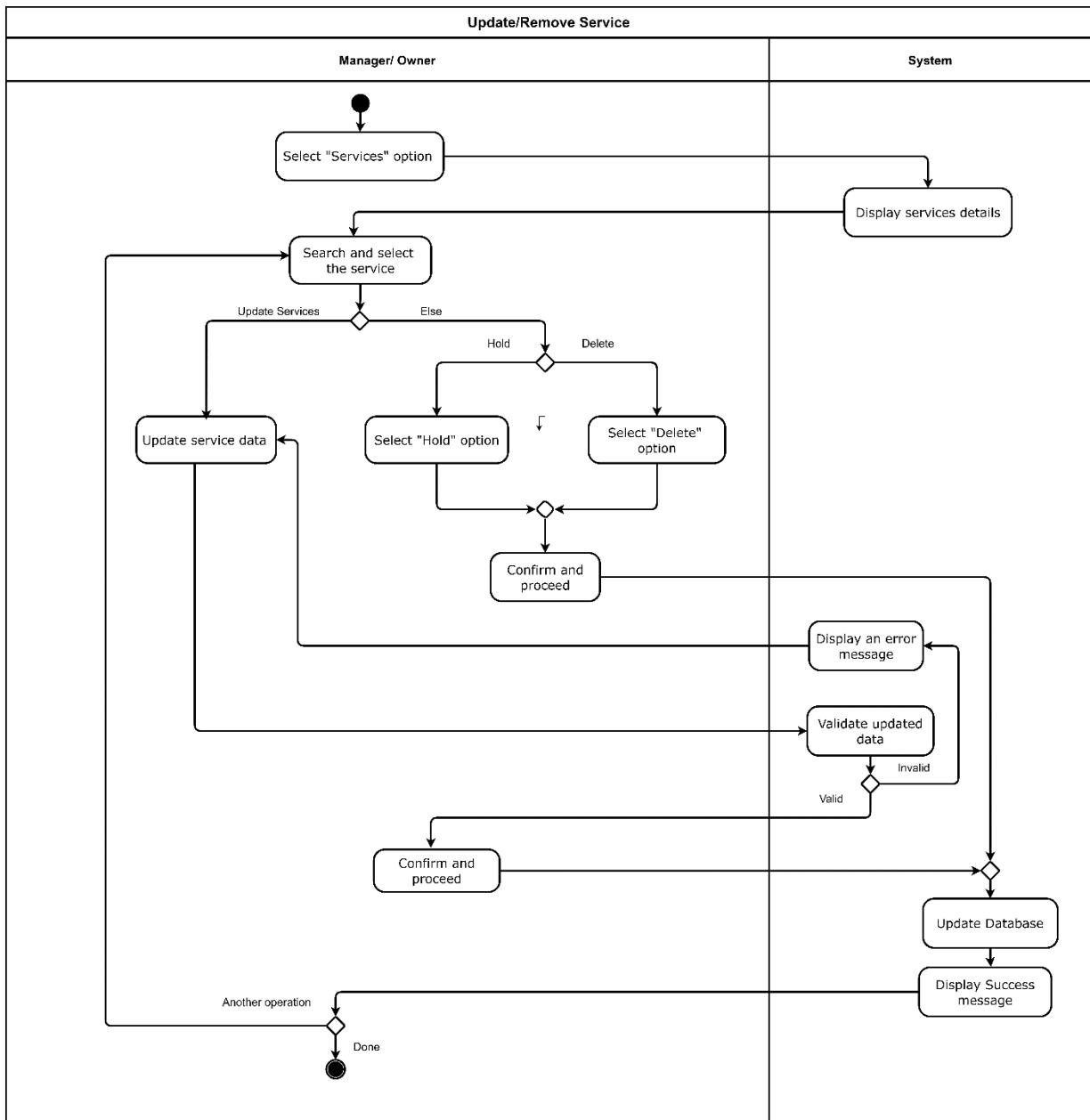


Figure 73: Update/Remove Service (Activity Diagram)

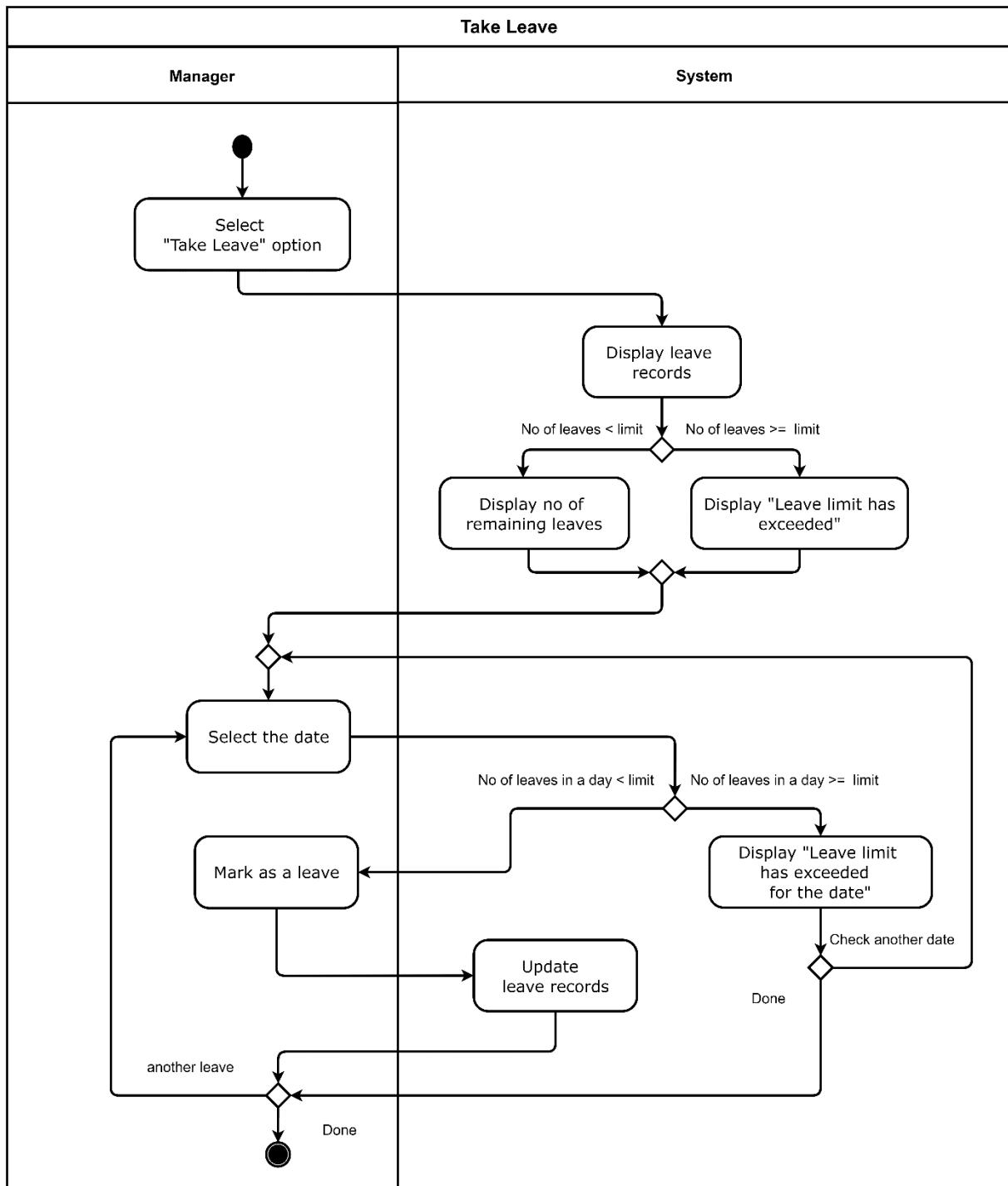


Figure 74: Take Leave (Activity Diagram)

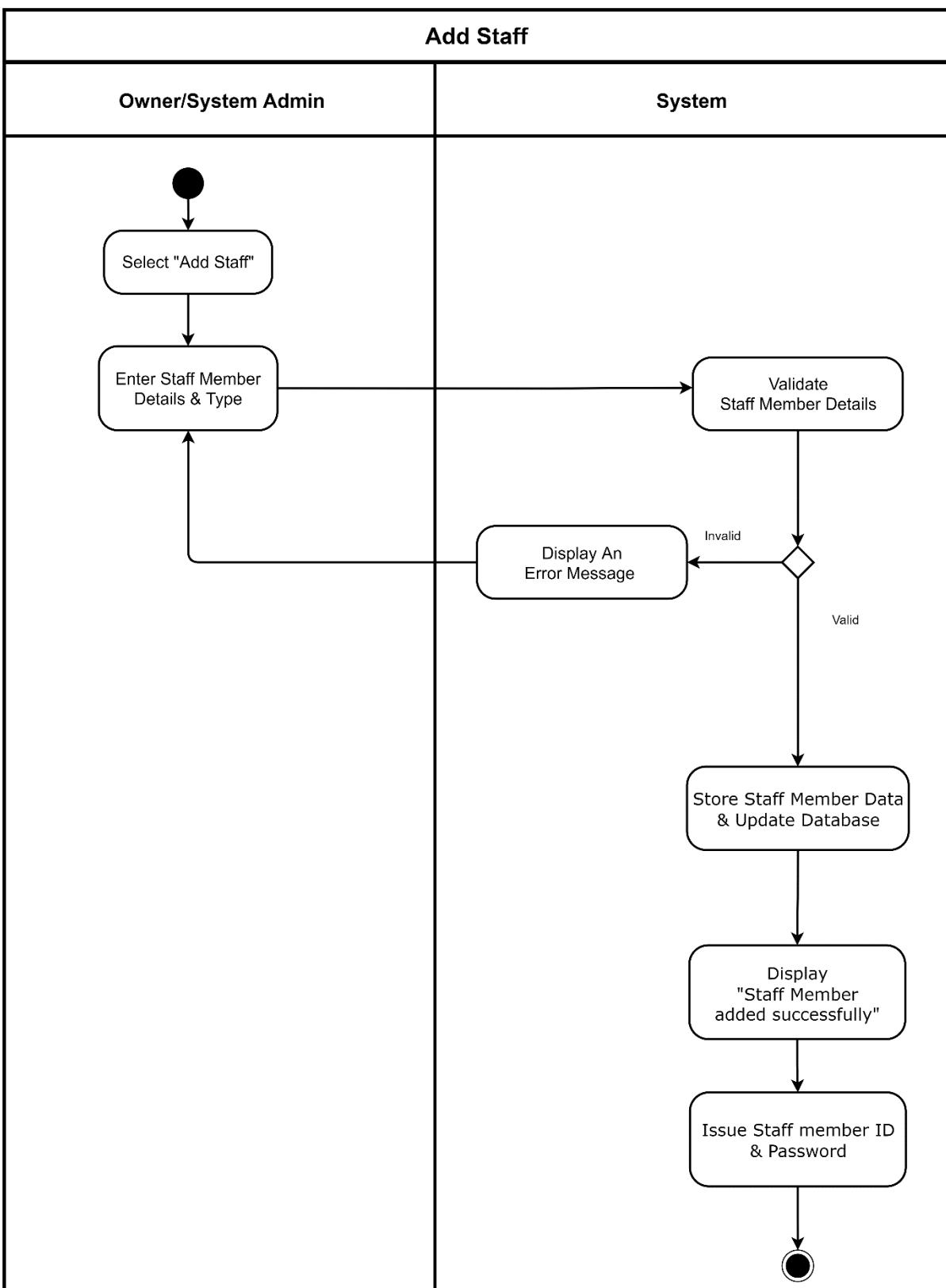


Figure 75: Add Staff (Activity Diagram)

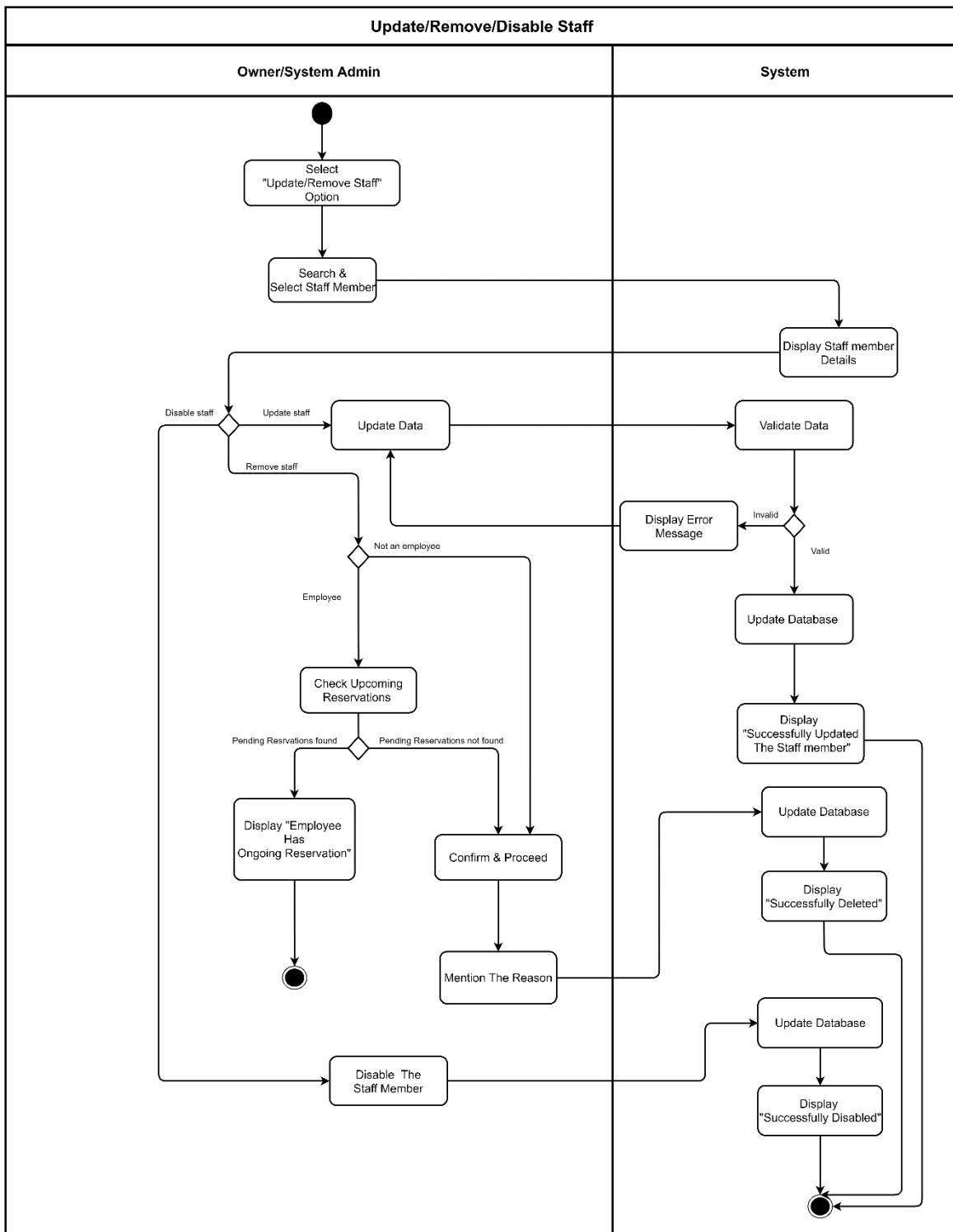


Figure 76: Update/Remove/Disable Staff (Activity Diagram)

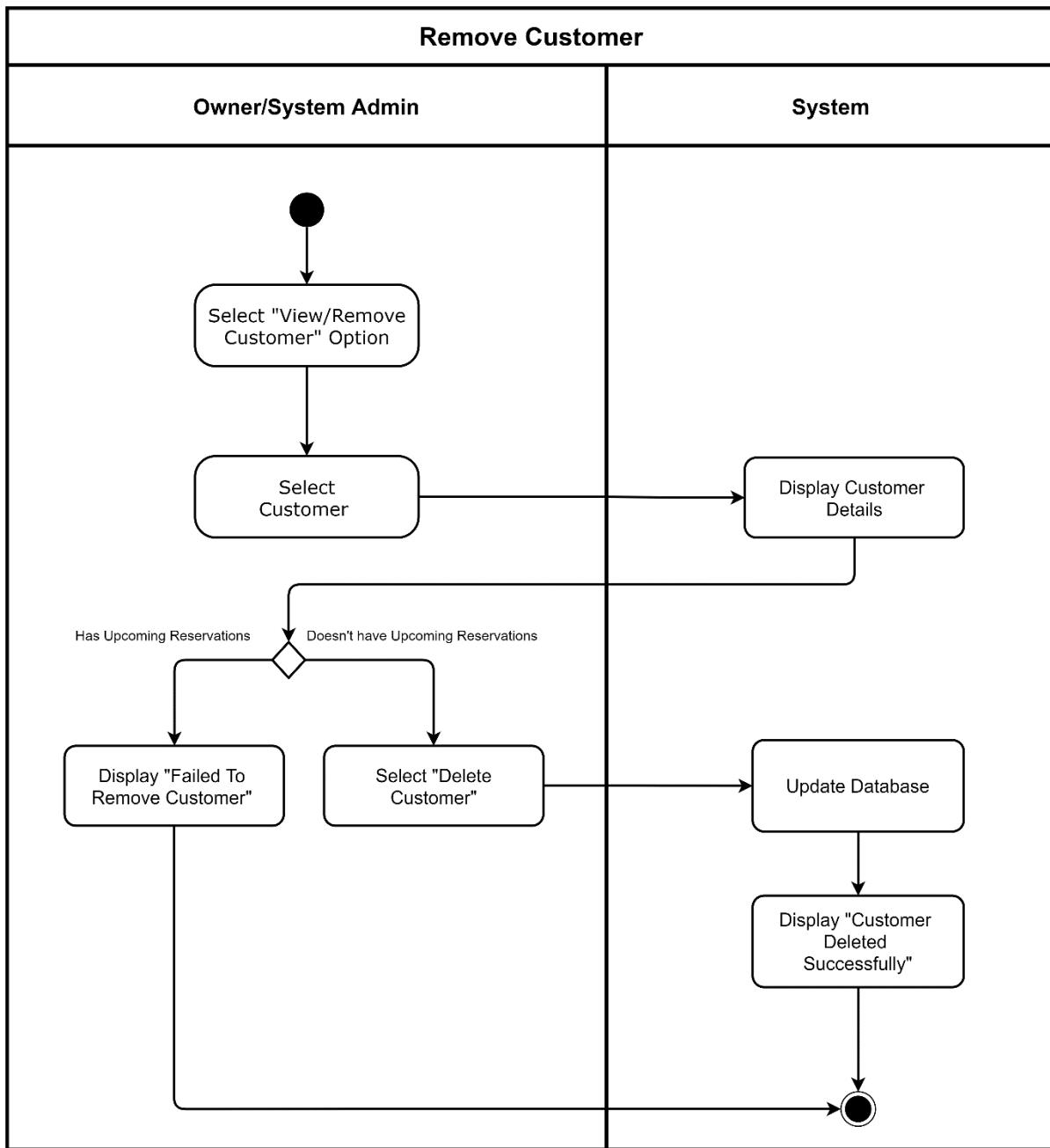


Figure 77: Remove Customer (Activity Diagram)

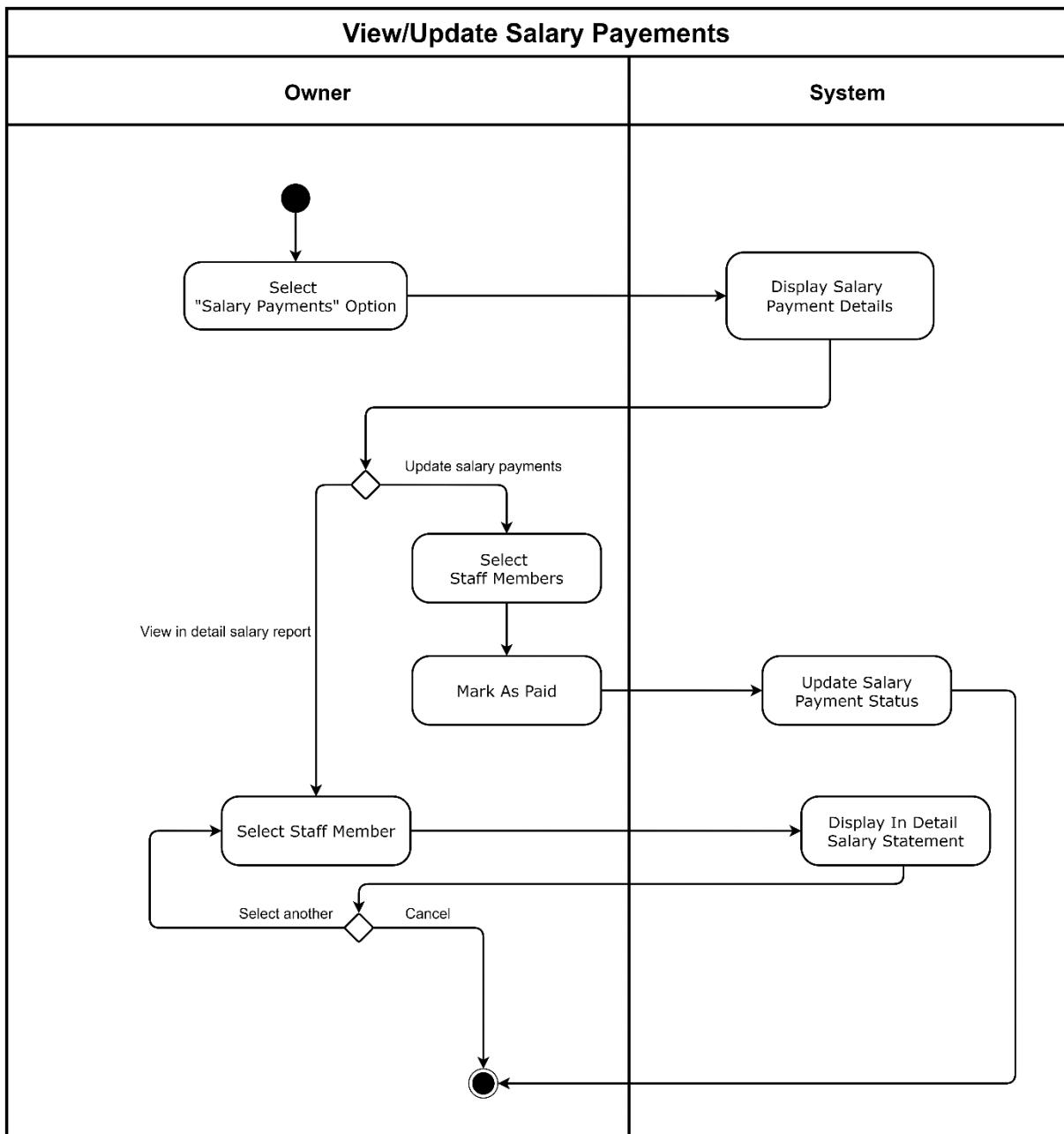


Figure 78: View/Update Salary Payments (Activity Diagram)

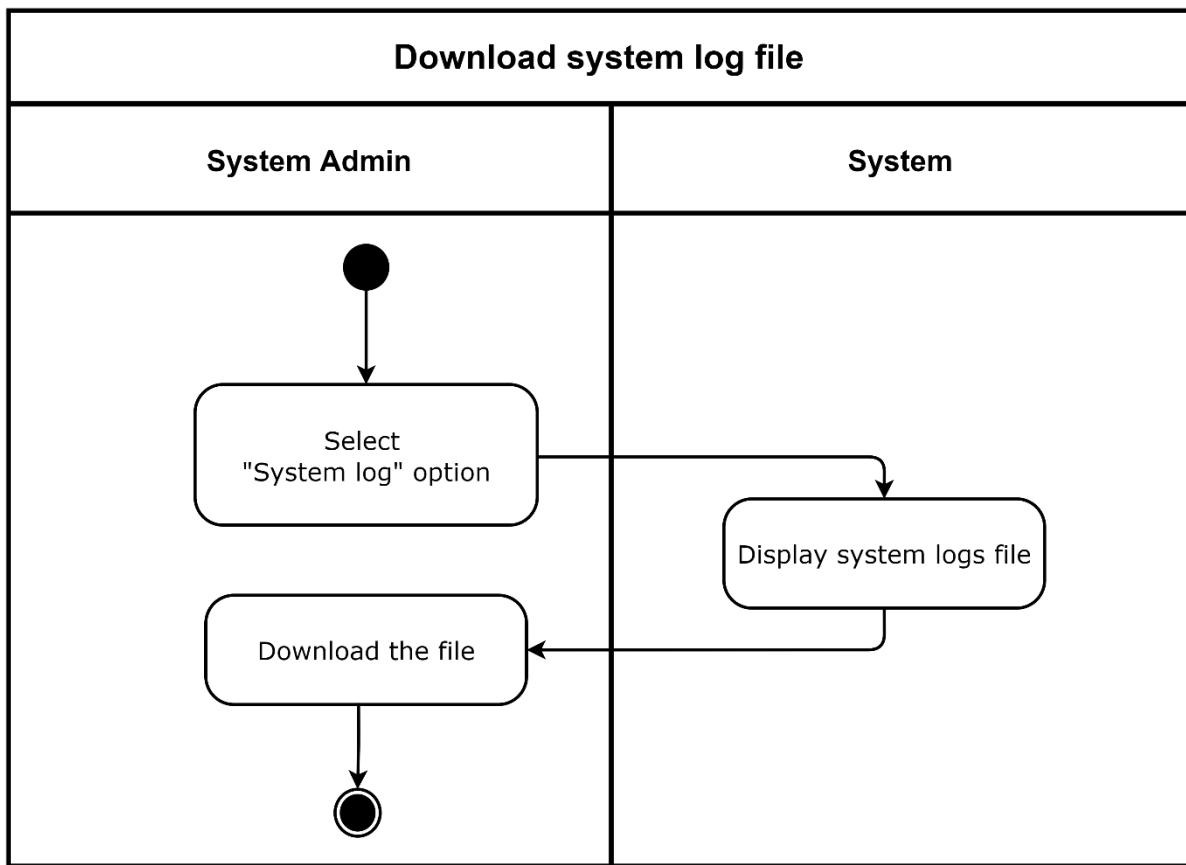


Figure 79: Download System Log File (Activity Diagram)

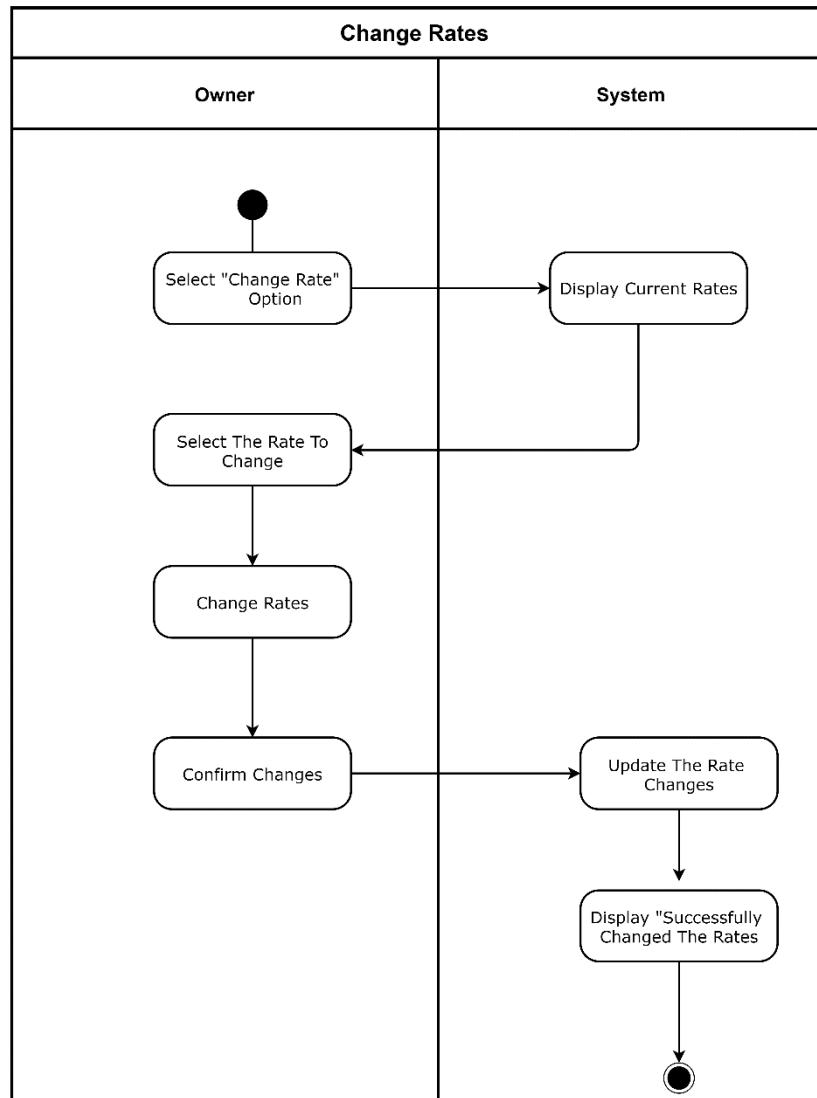


Figure 80: Change Rates (Activity Diagram)

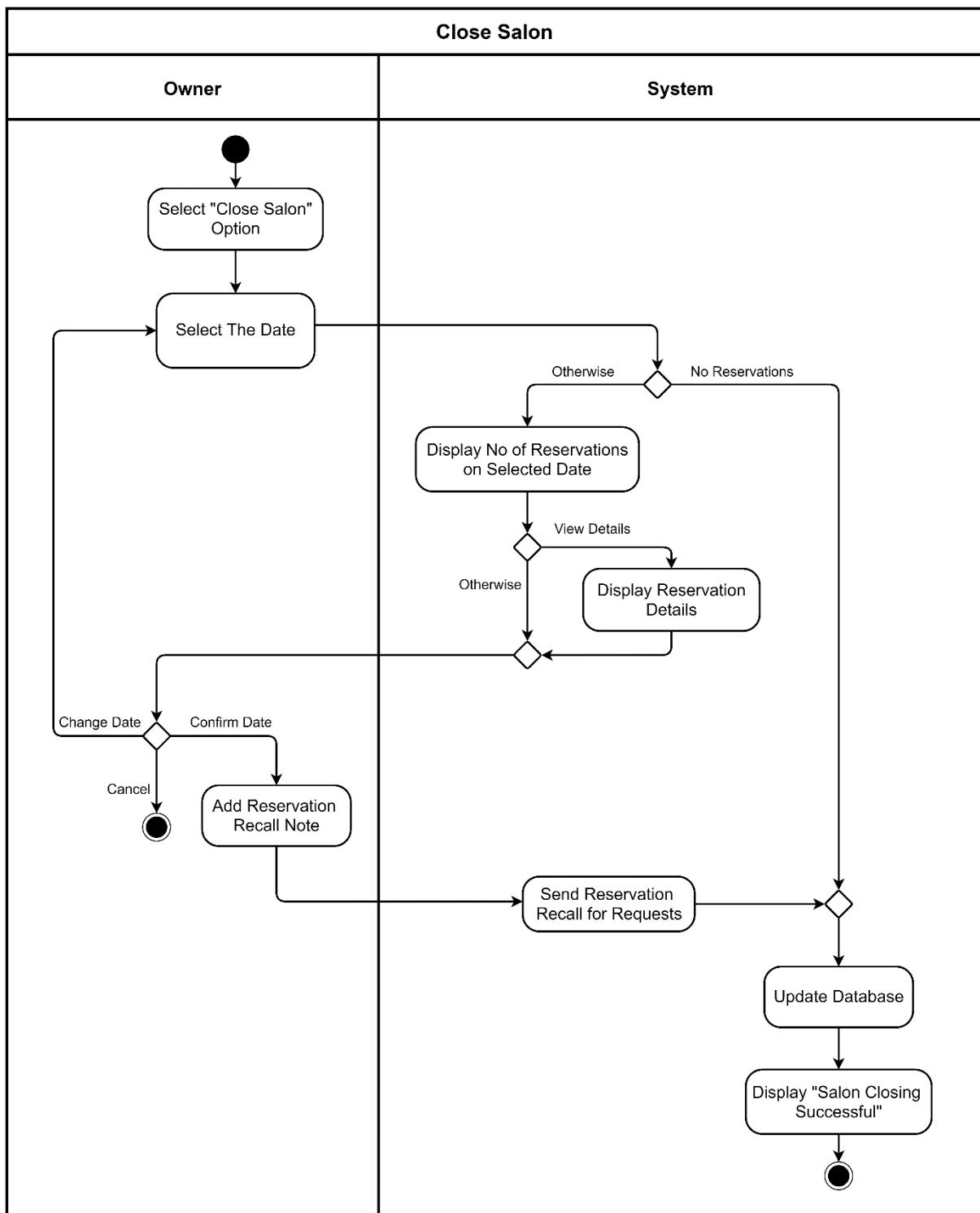


Figure 81: Close salon (Activity Diagram)

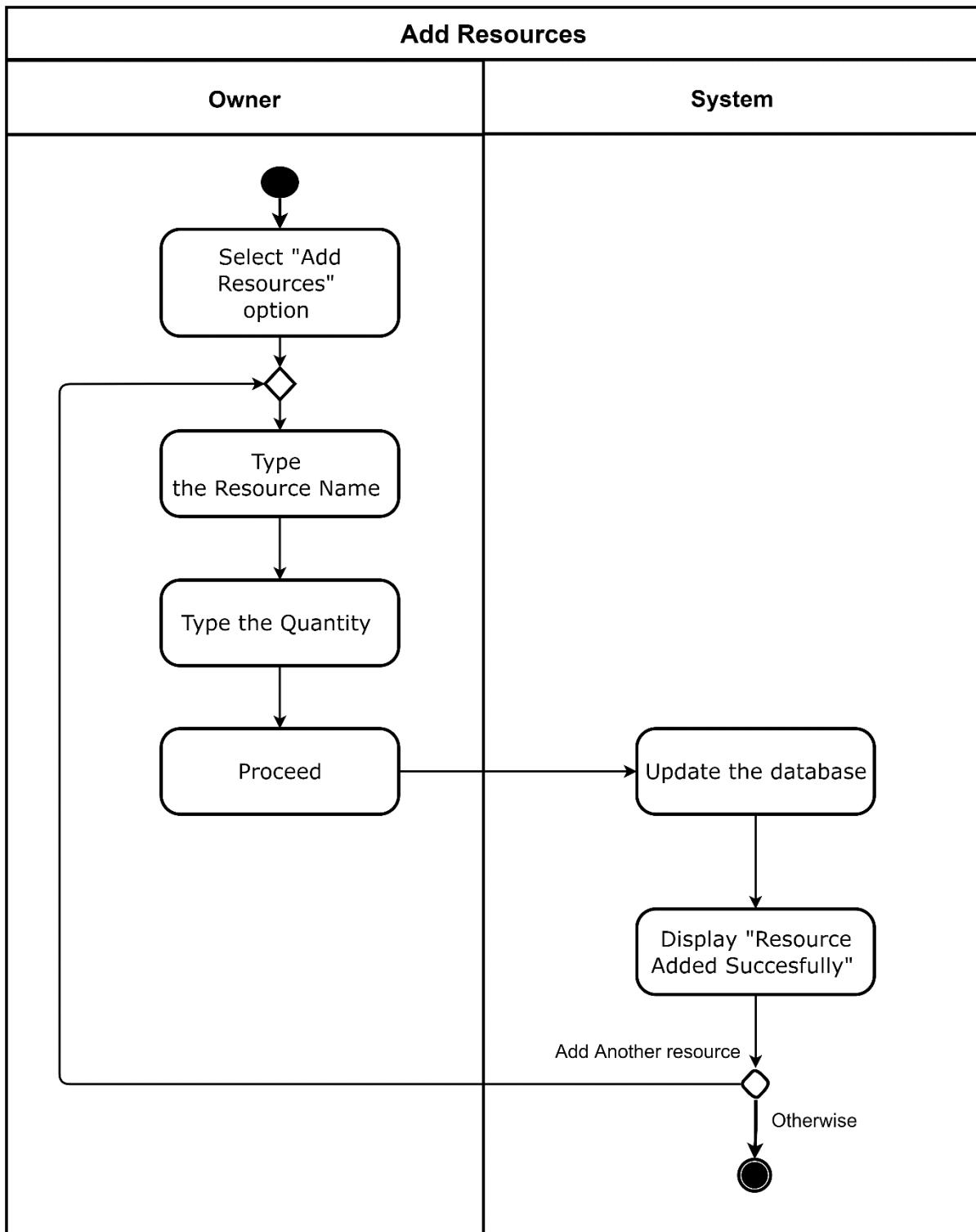


Figure 82: Add Resources (Activity Diagram)

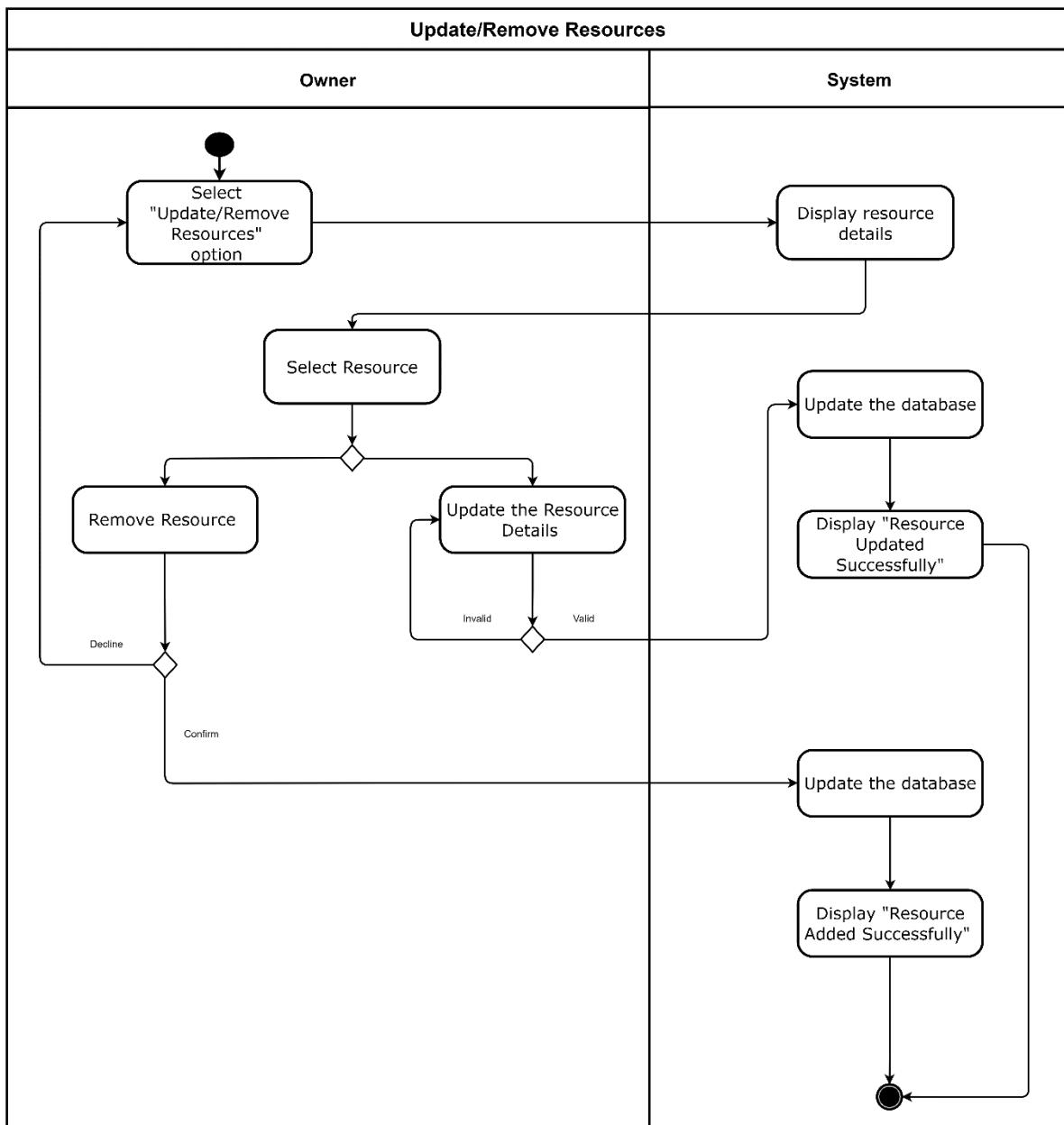


Figure 83: Update/Remove Resources (Activity Diagram)

5.5. State Transition Diagrams

Link to State Transition Diagrams: https://bit.ly/State_Transition_Diagrams_CS30

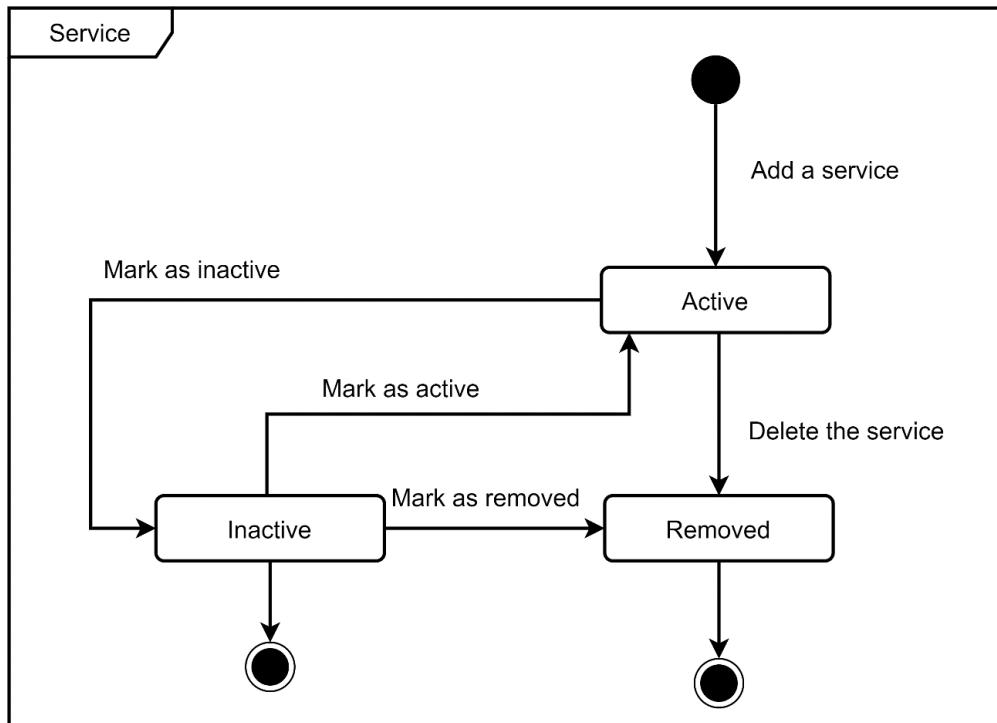


Figure 84: Service (State Transition Diagram)

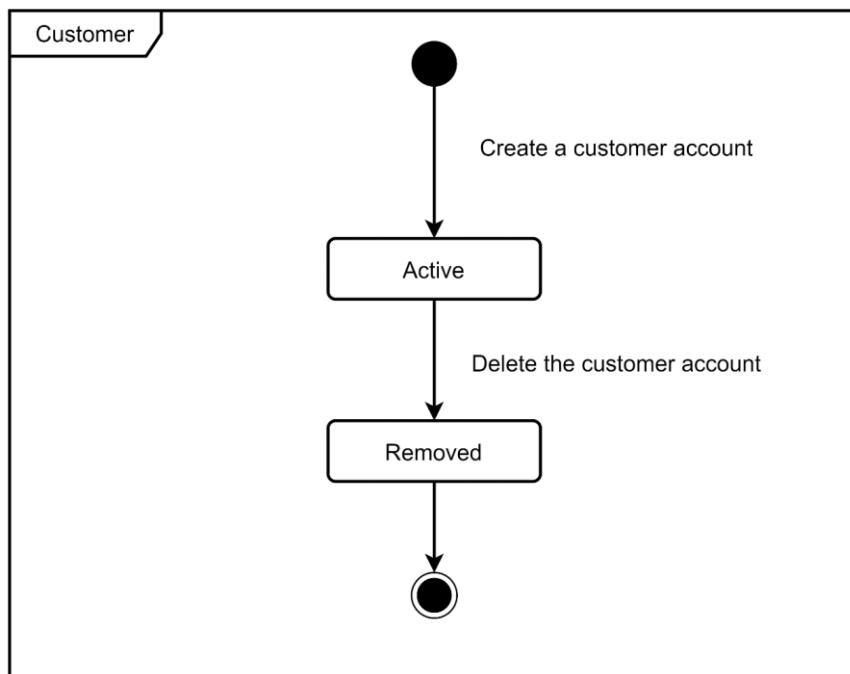


Figure 85: Customer (State Transition Diagram)

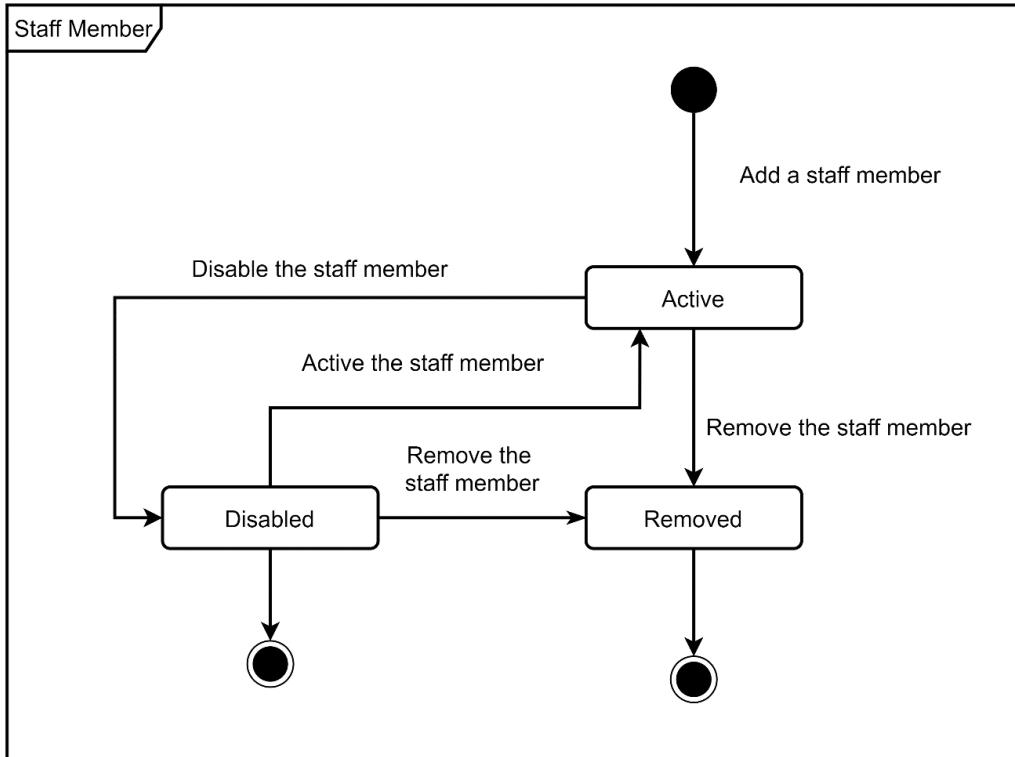


Figure 86: Staff Member (State Transition Diagram)

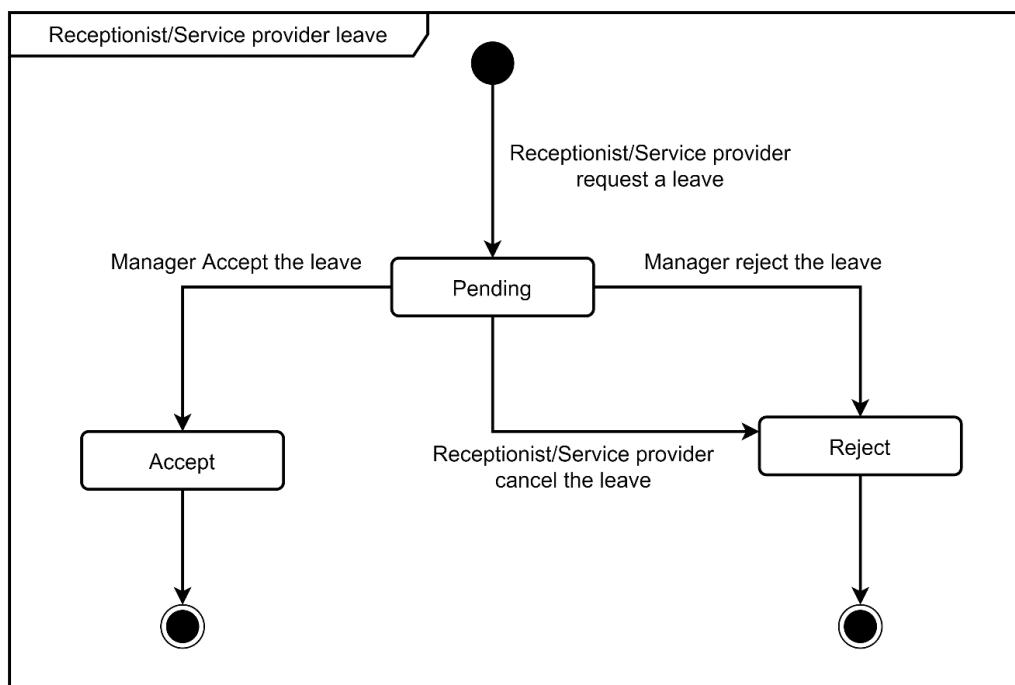


Figure 87: Receptionist/Service Provider Leave (State Transition Diagram)

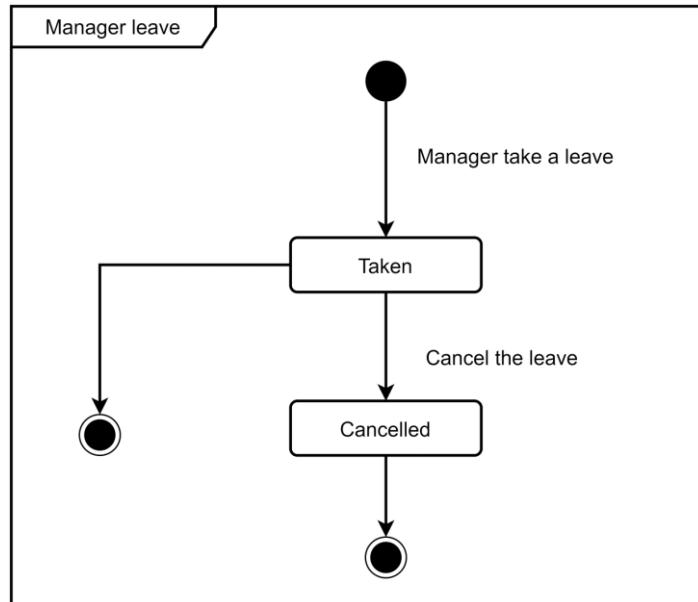


Figure 88: Manager Leave (State Transition Diagram)

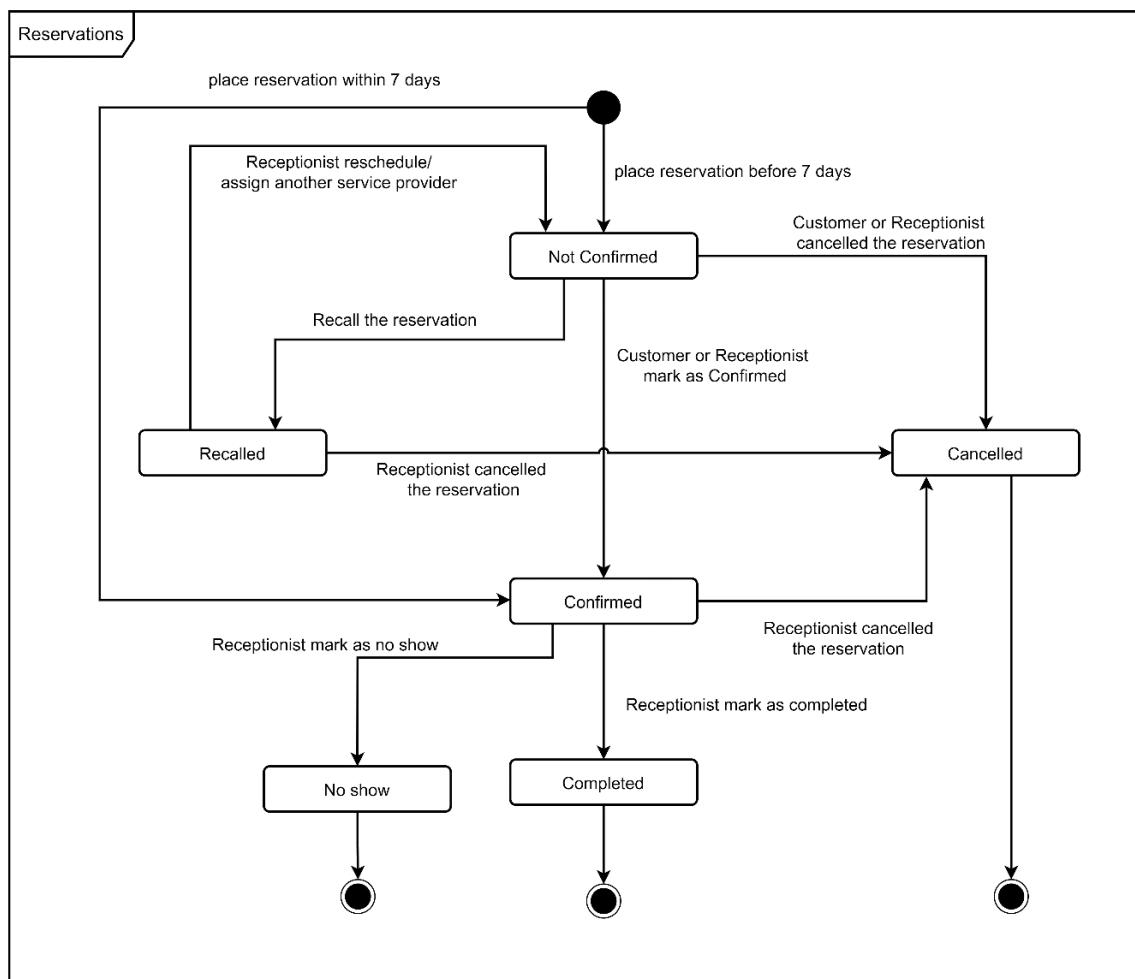


Figure 89: Reservations (State Transition Diagram)

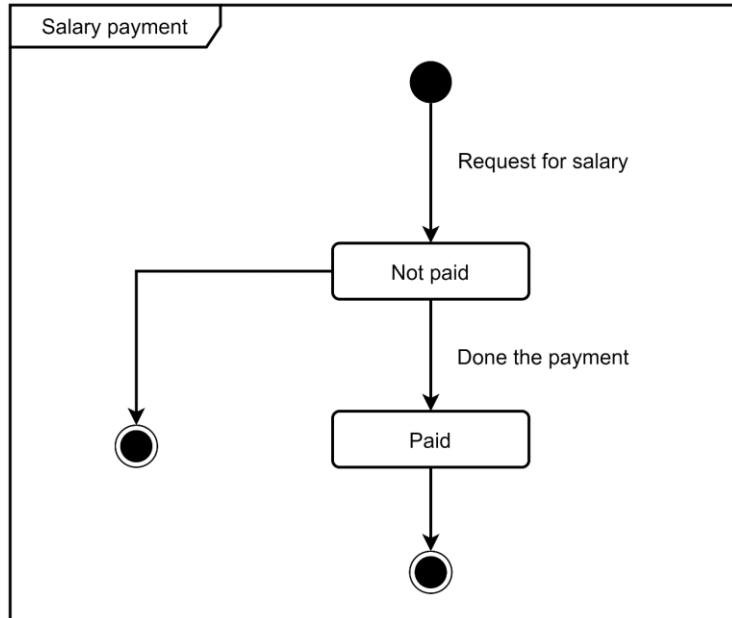


Figure 90: Salary Payment (State Transition Diagram)

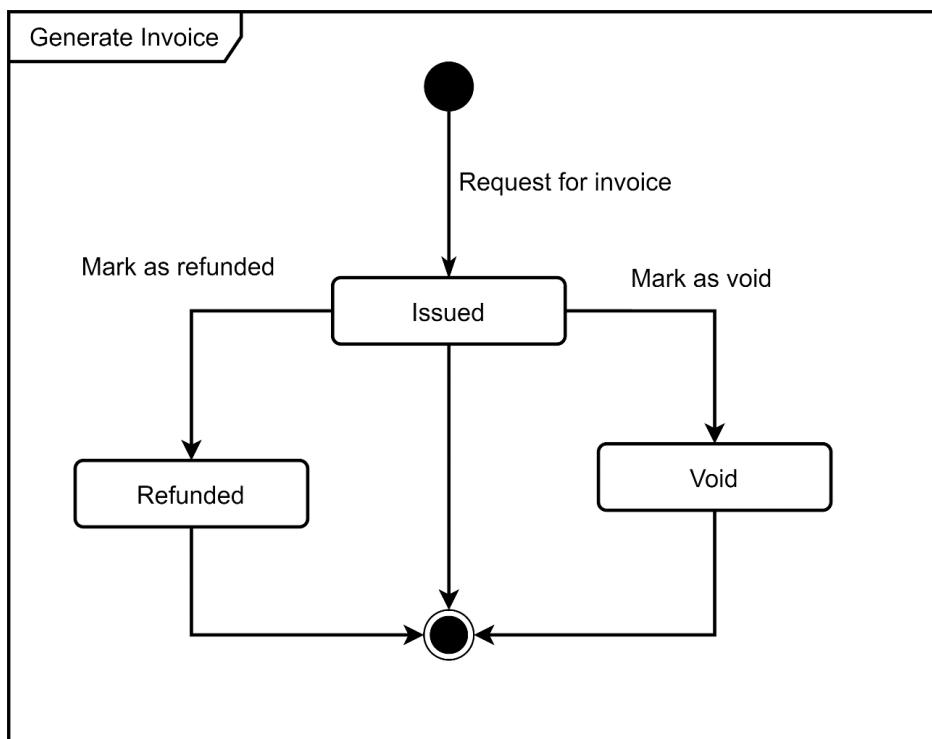


Figure 91: Generate Invoice (State Transition Diagrams)

5.6. User Interface Flow Diagram & Wireframes

5.6.1. User Flow Diagrams

Link to User Flow Diagrams: https://bit.ly/User_Flow_Diagrams_CS30

User Login & Registration User Flow

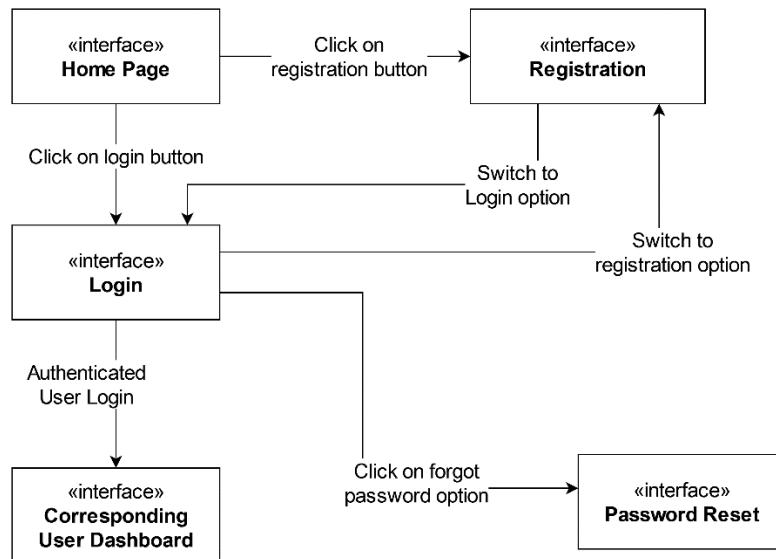


Figure 92: Customer (User Flow Diagram)

Customer User Flow

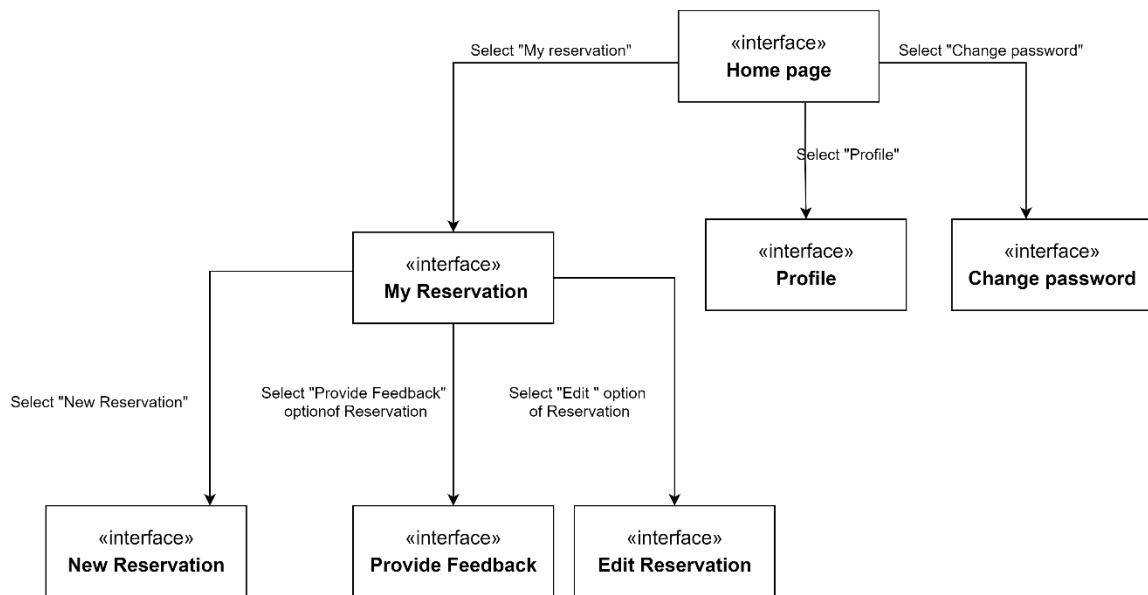


Figure 93: Customer (User Flow Diagram)

Service Provider User Flow

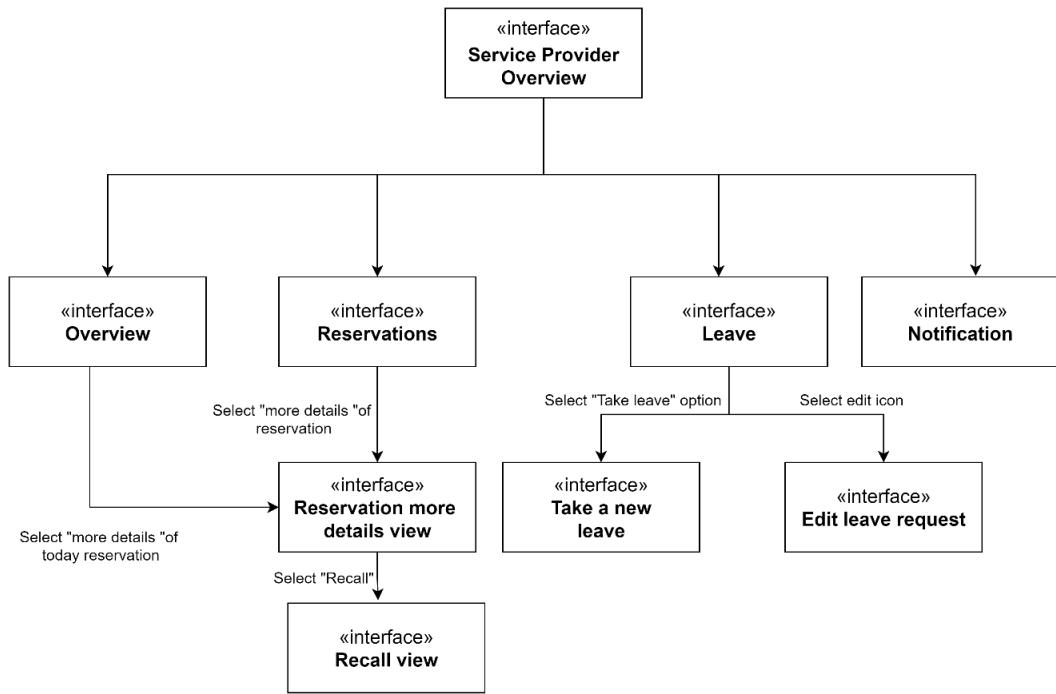


Figure 94: Service Provider (User Flow Diagram)

Receptionist User Flow

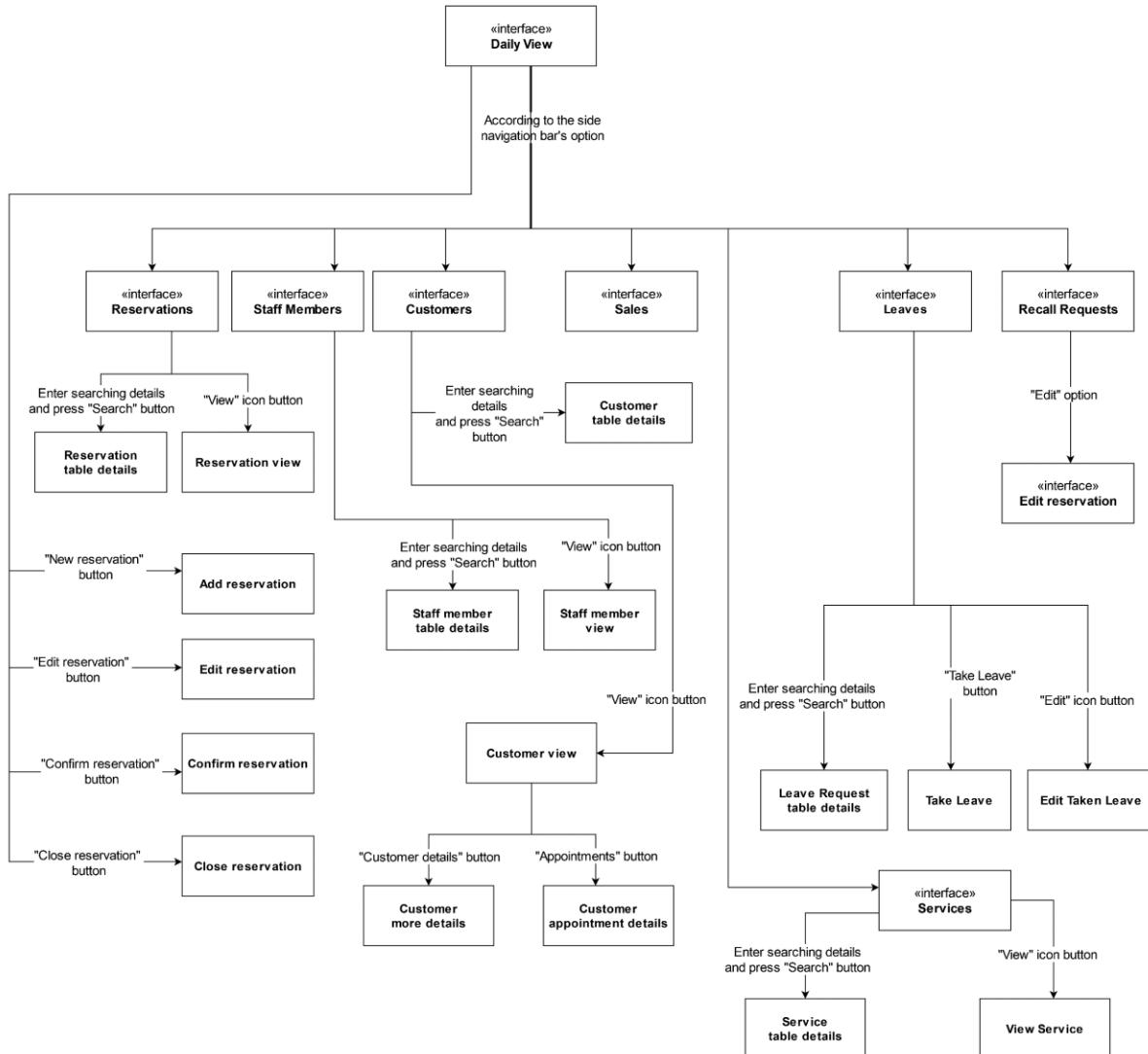


Figure 95: Receptionist (User Flow Diagram)

Manager User Flow

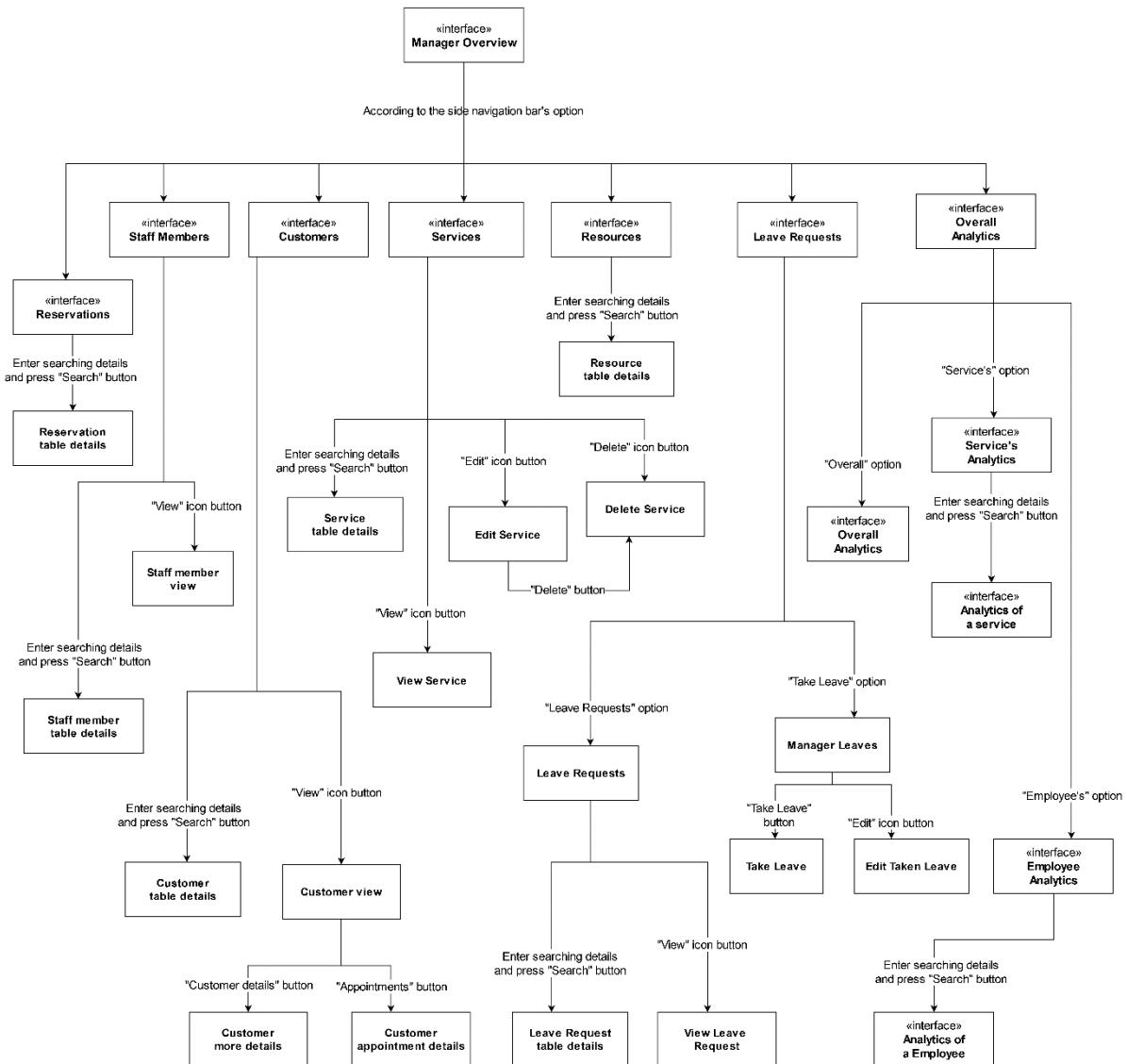


Figure 96: Manager (User Flow Diagram)

Owner User Flow

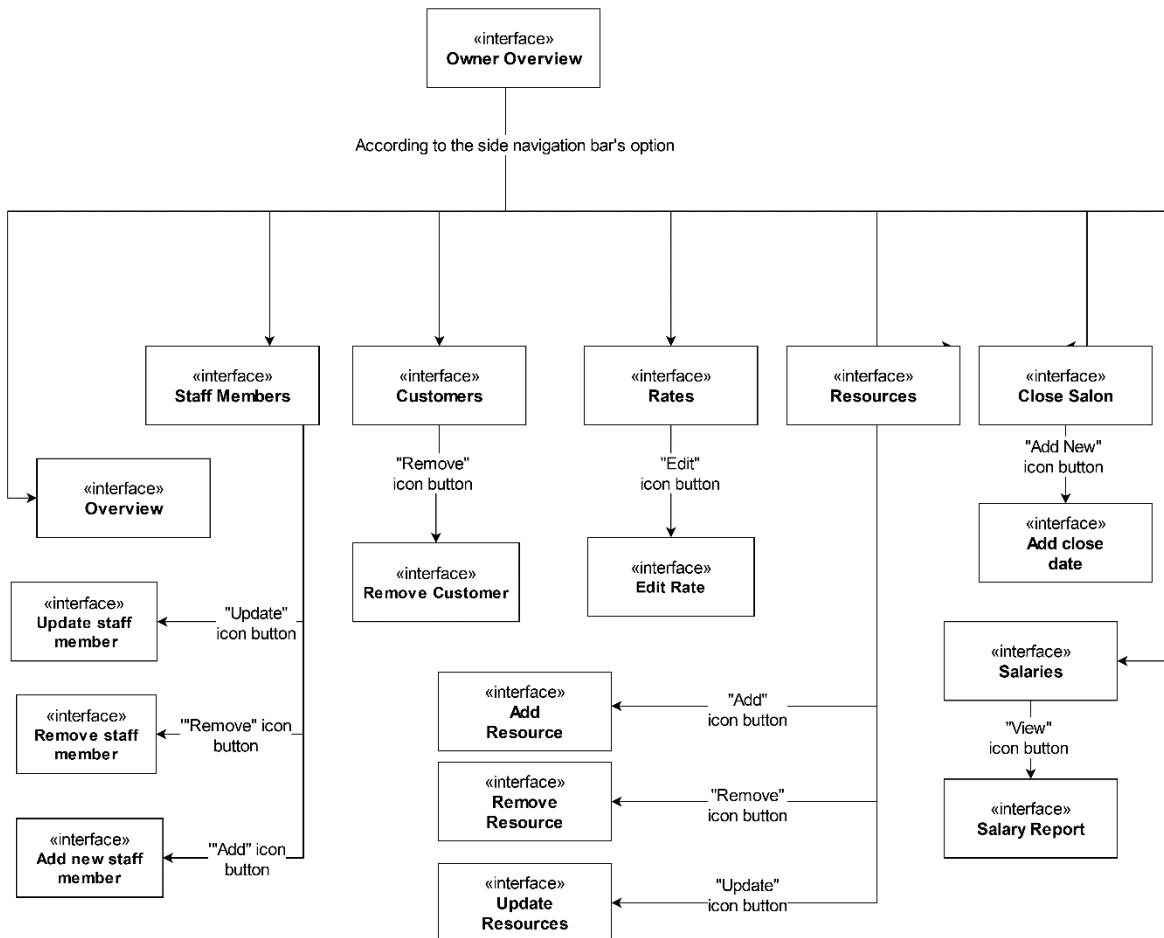


Figure 97: Owner (User Flow Diagram)

System Admin User Flow

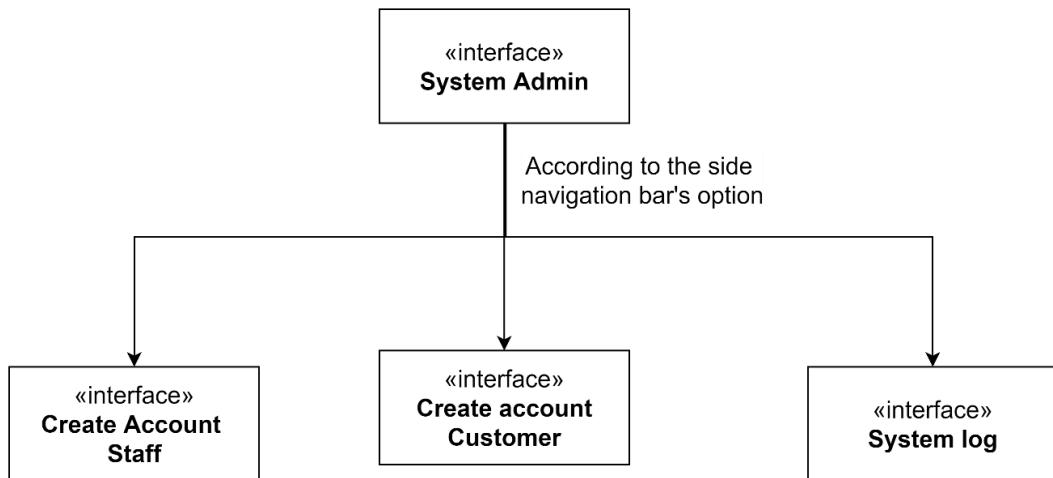


Figure 98: System Admin (User Flow Diagram)

5.6.2. Wireframes

Login UI

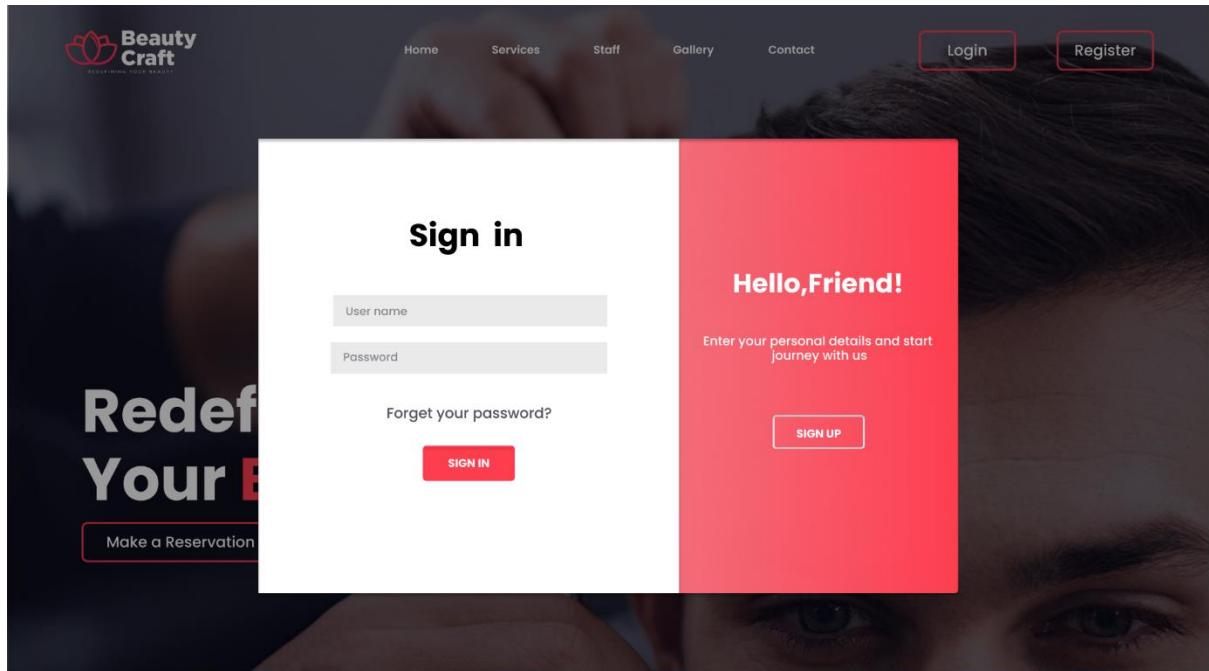


Figure 99: Login UI (Wireframe)

Registration UI

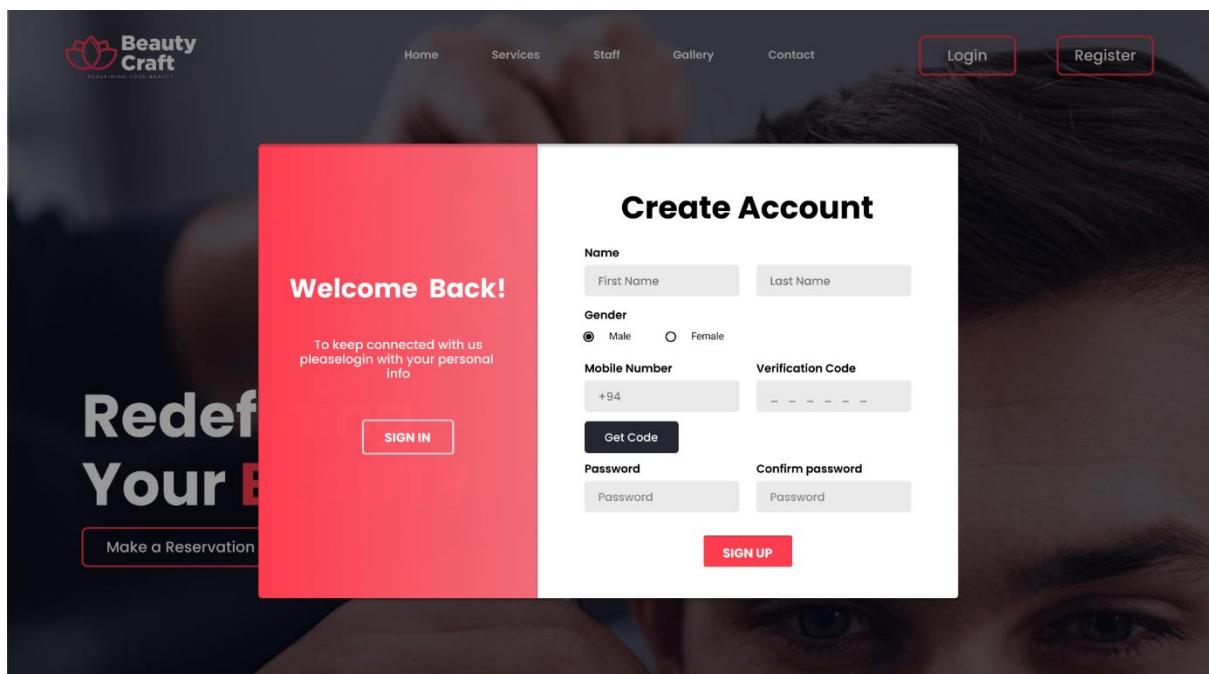


Figure 100: Registration UI (Wireframe)

Landing Page – part 1

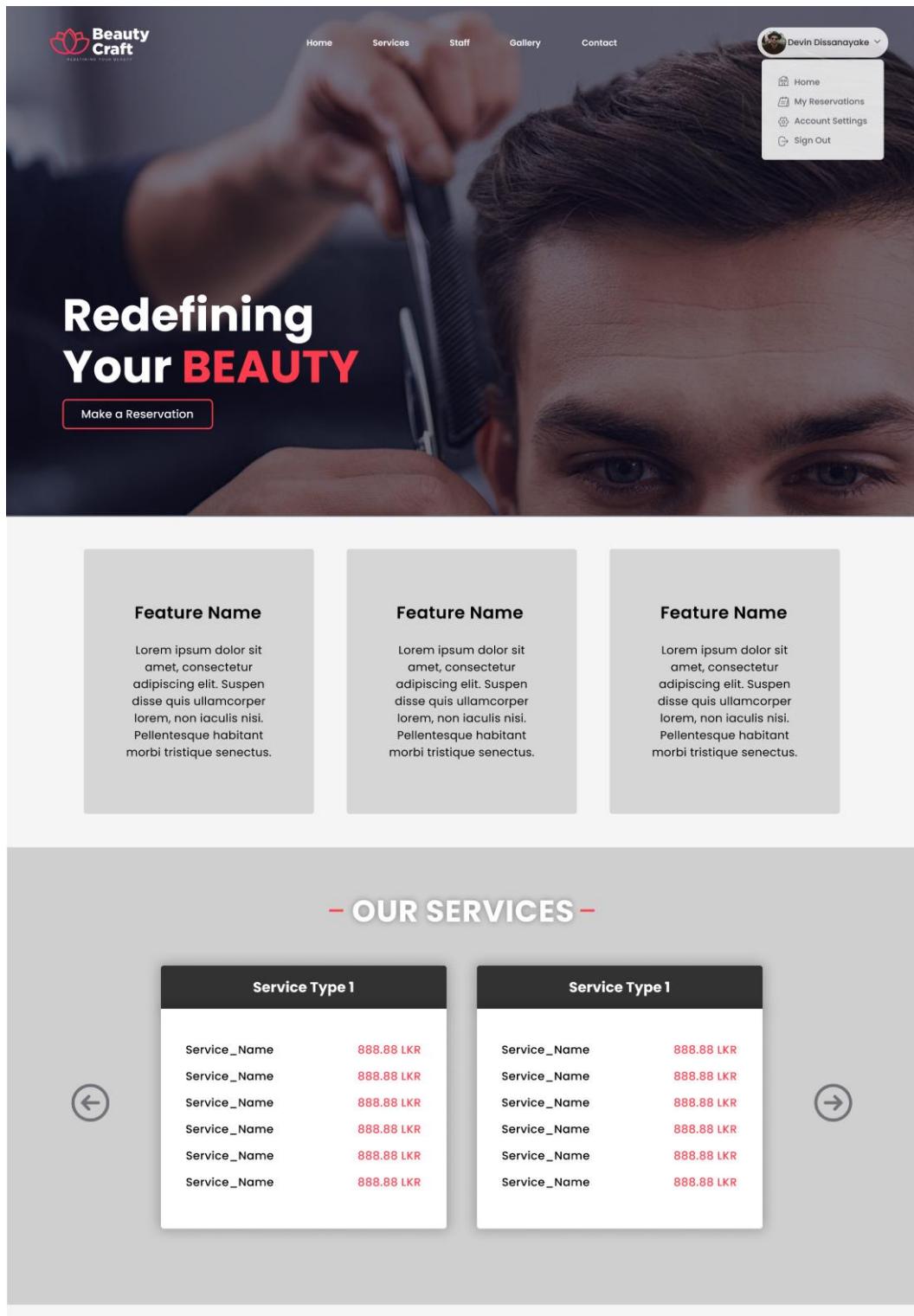


Figure 101: Landing Page – part 1 (Wireframe)

Landing Page – part 2

- MEET OUR TEAM -



Image_Here

Name_Here



Image_Here

Name_Here



Image_Here

Name_Here



Image_Here

Name_Here

- WHAT THEY SAY -

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras lobortis, erat id facilisis maximus, arcu orci mattis turpis, ut pharetra felis risus in lacus. Praesent.





Customer Name Here



- GALLERY -























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beautycraft@gmail.com

Opening Hours

Monday	9am - 8pm
Tuesday	9am - 8pm
Wednesday	9am - 8pm
Thursday	9am - 8pm
Friday	9am - 8pm
Saturday	9am - 8pm
Sunday	9am - 8pm

Figure 102: Landing Page – part 2 (Wireframe)

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View Reservations

The wireframe shows a user interface for viewing reservations. At the top, there is a navigation bar with the 'Beauty Craft' logo, menu items (Home, Services, Staff, Gallery, Contact), and a user profile for 'Devin Dissanayake'. Below the navigation is a sidebar with links for 'My Reservations', 'Profile', and 'Change Password'. The main content area displays four reservation cards, each with a date and time, service provider, and status (Confirmed, Cancelled, Completed). Each card includes a 'Recall Note' section with placeholder text, and 'Edit' and 'Provide Feedback' buttons.

Figure 103: View Reservations (Wireframe)

Provide Feedback

The wireframe shows a 'Provide Feedback' modal dialog. It has fields for 'Rating' (set to 5), 'Comment' (with a placeholder '--Type in--'), and 'Save' and 'Cancel' buttons. This dialog is overlaid on a list of reservations, which are identical to those shown in Figure 103.

Figure 104: Provide Feedback (Wireframe)

Edit Profile

The wireframe shows the 'Edit Profile' page. At the top, there's a navigation bar with the 'Beauty Craft' logo, menu items 'Home', 'Services', 'Staff', 'Gallery', 'Contact', and a user profile icon for 'Devin Dissanayake'. On the left, a sidebar has links for 'My Reservations', 'Profile' (which is selected), and 'Change Password'. The main content area features a placeholder profile picture with options to 'Upload new picture' or 'Remove picture'. Below this are fields for 'First Name' (placeholder: '--Type in--'), 'Last Name' (placeholder: '--Type in--'), 'Gender' (radio buttons for 'Male' and 'Female'), 'Mobile Number' (placeholder: '--Type in--'), and a red 'Save' button.

Figure 105: Edit Profile (Wireframe)

Change Password

The wireframe shows the 'Change Password' page. It has a similar header and sidebar to the 'Edit Profile' page. The main content area includes fields for 'Current Password' (placeholder: '--Type in--'), 'New Password' (placeholder: '--Type in--'), and 'Verify New Password' (placeholder: '--Type in--'). A red 'Save' button is located at the bottom right.

Figure 106: Change Password (Wireframe)

Daily View Receptionist

The wireframe shows a sidebar with a logo for 'Beauty Craft' and a navigation menu including 'Daily View', 'Reservations', 'Recall Requests', 'Sales', 'Services', 'Customers', 'Staff Members', and 'Leaves'. The main area is titled 'Daily View' and displays a table of reservations. The table has columns for 'Service Provider' (dropdown menu labeled '--Select--'), 'Customer' (placeholder 'Customer_Name_Here'), 'Contact No' (placeholder '0123456789'), and status indicators ('Confirmed' with green dot, 'Pending' with blue dot). A date range selector shows 'Today' and 'Monday 24th Aug 2021'. A 'New Reservation' button is located in the top right corner.

	Service Provider	Customer	Contact No	
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Pending
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Confirmed
09:30 am	Service_Name_Here	Service_Provider_Name_Here	Customer_Name_Here	0123456789 Pending

Figure 107: Daily View Receptionist (Wireframe)

Add New Reservation

The wireframe shows a 'New Reservation' form. It consists of two identical sections for adding services (labeled ① and ②) and a 'Customer Details' panel. Each service section includes 'Start Time' (dropdown), 'Service' (dropdown), 'Duration' (dropdown), and a 'Reservation Note' text area. The 'Customer Details' panel shows a search bar, a customer profile with a placeholder 'Customer_Name_Here' and '0123456789', a 'View profile' button, and a summary of services and total cost. A 'Place Reservation' button is located at the bottom of the panel.

Reservation Details

Date
Monday 24th Aug 2021

① Start Time	Service
88:88	Choose a service
Duration	Staff Member
88:88	Select staff
Reservation Note	
Add a note related to reservation	

Customer Details

Customer Name / Contact No

Search

Customer_Name_Here
0123456789

[View profile](#)

Service 1	888.00 LKR
Service 2	888.00 LKR
Total	8888.00 LKR

Place Reservation

②

Start Time	Service
88:88	Choose a service
Duration	Staff Member
88:88	Select staff
Reservation Note	
Add a note related to reservation	

+ Add another service

Figure 108: Add New Reservation (Wireframe)

Confirm Reservation

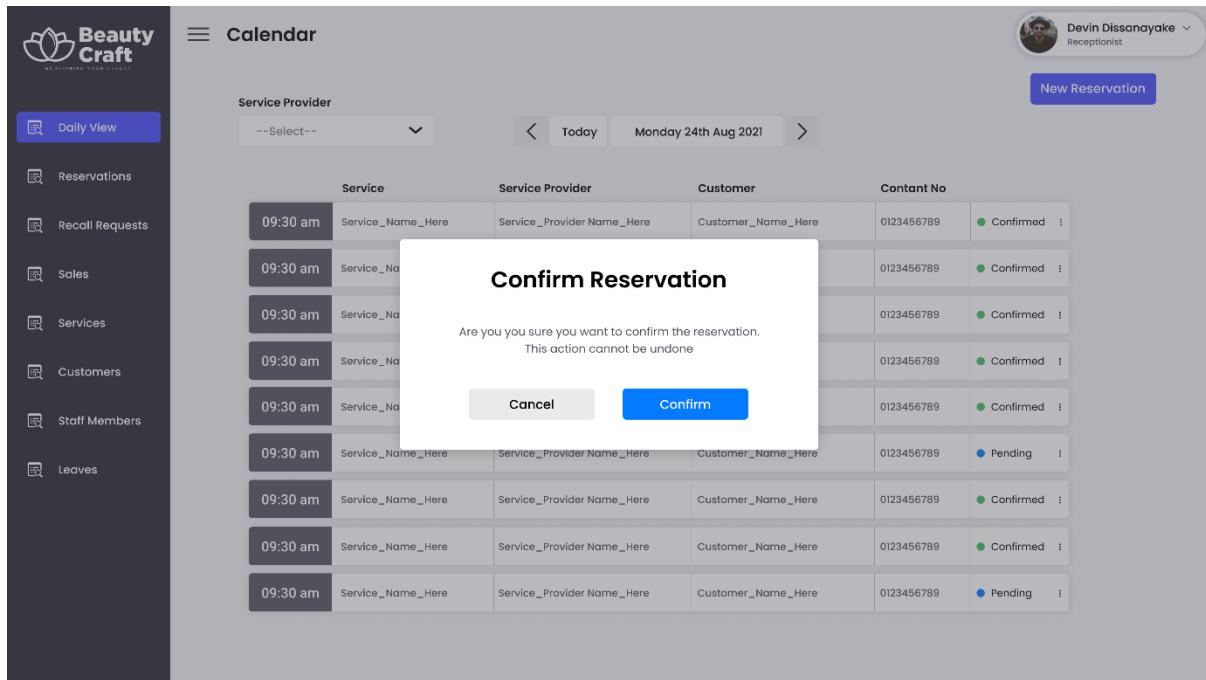


Figure 109: Confirm Reservation (Wireframe)

Cancel Reservation

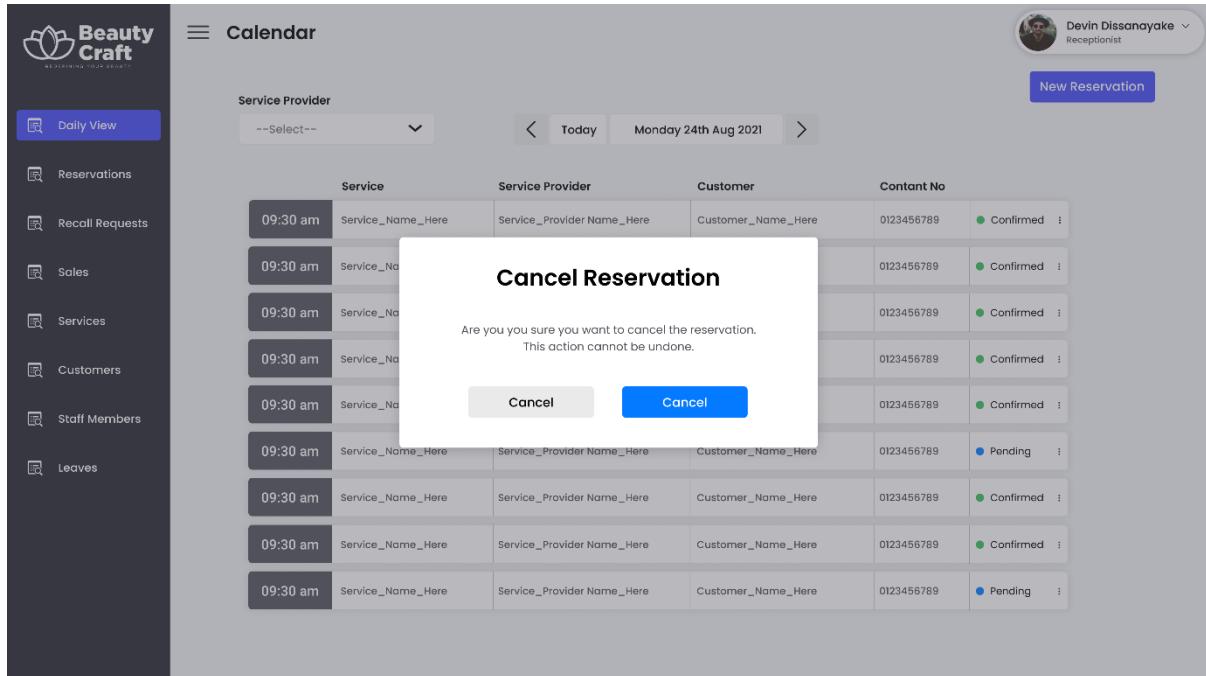


Figure 110: Cancel Reservation (Wireframe)

Reservations Table View

The wireframe shows a dark-themed user interface for a reservations system. On the left is a vertical sidebar with the 'Beauty Craft' logo at the top. Below the logo are several menu items: Overview, Reservations (which is highlighted with a blue background), Staff Members, Customers, Services, Packages, Resources, Leaves, and Analytics. The main content area has a header 'Reservations' with a search bar and a user profile for 'Sanjana Rajapaksha Manager'. Below the header is a table with columns: Reservation ID, Service, Service Provider, Status, Reservation No, Service, Service Provider's name, Customer name, Date, and Status. The table contains seven rows of reservation data. At the bottom right of the table is a pagination control showing '1-8 of 48' and page numbers 1, 2, 3, and 4.

Reservation ID	Service	Service Provider	Status	Reservation No	Service	Service Provider's name	Customer name	Date	Status
--Type in--	--Select--	--Select--	--Select--	Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Not Confirmed
				Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Confirmed
				Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Confirmed
				Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Recalled
				Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Cancelled
				Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Completed
				Res0001	Hair Cut (Ladies)	Ruwanthi Munasinghe	Sanjana Rajapaksha	2019.05.06	Completed

Figure 111: Reservations Table View (Wireframe)

Recall Requests Table View

The wireframe shows a dark-themed user interface for recall requests. On the left is a vertical sidebar with the 'Beauty Craft' logo at the top. Below the logo are several menu items: Daily View, Reservations, Recall Requests (which is highlighted with a blue background), Sales, Services, Customers, Staff Members, and Leaves. The main content area has a header 'Recall Requests' with a user profile for 'Devin Dissanayake Receptionist'. Below the header are three separate recall request cards, each with a date ('Sept 20 2019'), service details, customer information, and edit/cancel buttons. Each card also includes a 'Recall Note' section with placeholder text.

Sept 20 2019

Service Service_Name_Here	Service Provider Service_Provider Name_Here
Customer Customer_Name_Here	Customer Contact No 0123456789

Edit **Cancel**

Sept 20 2019

Service Service_Name_Here	Service Provider Service_Provider Name_Here
Customer Customer_Name_Here	Customer Contact No 0123456789

Edit **Cancel**

Sept 20 2019

Service Service_Name_Here	Service Provider Service_Provider Name_Here
Customer Customer_Name_Here	Customer Contact No 0123456789

Edit **Cancel**

Figure 112: Recall Requests Table View (Wireframe)

130 | Page

Services Table View

The wireframe shows a user interface for managing services. On the left is a sidebar with navigation links: Overview, Reservations, Staff Members, Customers, Services (selected), Packages, Resources, Leaves, and Analytics. The main area has a header 'Services' and a user profile for 'Sanjana Rajapaksha Manager'. Below the header are search filters for Service ID, Service Name, Type, and Status, followed by a 'Search' button and a 'Add New' button. A table lists service details with columns: Service ID, Service Name, Type, Price, Status, and Action. The table contains 8 rows of sample data. At the bottom right are pagination controls showing page 1 of 48.

Service ID	Service Name	Type	Price	Status	Action
S00001	Service 1	Type 1	Rs.100.00	Active	
S00001	Service 1	Type 1	Rs.100.00	Inactive	
S00001	Service 1	Type 1	Rs.100.00	Active	
S00001	Service 1	Type 1	Rs.100.00	Inactive	
S00001	Service 1	Type 1	Rs.100.00	Active	
S00001	Service 1	Type 1	Rs.100.00	Disable	
S00001	Service 1	Type 1	Rs.100.00	Active	

Figure 113: Services Table View (Wireframe)

Add New Service

New Service

Basic Info

Service Name

Service Type

Add Employee
 Emp001, Sanjana
 Emp002, Sanjana
 Emp003, Sanjana
 Emp004, Sanjana
 Emp005, Sanjana

Price

Duration and Resources

Slot 1

Duration

Add Resource
 Resource 1
 Resource 2
 Resource 3
 Resource 4
 Resource 5

Quantity

Resource 2	1 <input type="button" value="▼"/>
Resource 4	1 <input type="button" value="▼"/>

Interval 1

Duration

Slot 2

Duration

Add Resource
 Resource 1
 Resource 2
 Resource 3
 Resource 4
 Resource 5

Quantity

Resource 2	1 <input type="button" value="▼"/>
Resource 4	1 <input type="button" value="▼"/>

+ Another time slot

Figure 114: Add New Service (Wireframe)

Edit Service

Edit Service

Basic Info

Service Name

Service Type

Add Employee
 Emp001, Sanjana
 Emp002, Sanjana
 Emp003, Sanjana
 Emp004, Sanjana
 Emp005, Sanjana

Price

Duration and Resources

Slot 1

Duration

Add Resource
 Resource 1
 Resource 2
 Resource 3
 Resource 4
 Resource 5

Quantity
Resource 2: 1
Resource 4: 1

Interval 1

Duration

Slot 2

Duration

Add Resource
 Resource 1
 Resource 2
 Resource 3
 Resource 4
 Resource 5

Quantity
Resource 2: 1
Resource 4: 1

+ Another time slot

Editing Options

Hold the service

Figure 115: Edit Service (Wireframe)

Customers Table View

The wireframe shows a navigation sidebar on the left with the 'Beauty Craft' logo at the top. Below the logo are several menu items: Overview, Reservations, Staff Members, Customers (which is highlighted in blue), Services, Packages, Resources, Leaves, and Analytics. The main content area is titled 'Customers' and contains two search input fields: 'Customer Name' and 'Customer ID', both with placeholder text '--Type in--'. A 'Search' button is located to the right of these fields. Below the search area is a table with the following columns: Customer Name, Customer ID, Contact No, No of reservations, Last reservations date, and Action. The table contains 8 rows, all of which show the same data: Sanjana Rajapaksha, C00001, 0718547562, 23, 05.02.2021, and a small edit icon. At the bottom of the table is a pagination bar showing '1-8 of 48' and page numbers 1, 2, 3, >.

Figure 116: Customers Table View (Wireframe)

Customers More Details View

The wireframe shows a modal window titled 'Customer Details'. Inside the modal, there is a circular profile picture of a man with a beard and sunglasses. Below the picture, the name 'Devin Dissanayake' is displayed, followed by 'Customer ID : C00001'. There are two buttons at the bottom of this section: 'Customer Details' and 'Appointments'. To the right of this section is a summary table with two rows:

Total Sales	Rs.55600.00
All Appointments	250

Underneath the summary table is another section titled 'Basic Info' containing the following data:

First Name	Devin
Last Name	Dissanayake
Gender	Male
Contact No	0714448856

Figure 117: Customers More Details View (Wireframe)

Staff Members Table View

The wireframe shows a left sidebar with a 'Beauty Craft' logo and a navigation menu including Overview, Analytics, Salaries, Staff Members (selected), Customers, Rates, Resources, Close Salon, Reports, Services, Packages, and Reservations. The main content area is titled 'Staff' and contains a search bar with fields for Employee ID, Name, Type, Contact No, and buttons for Add and Search. Below is a table with columns: Staff Member Name, Staff No, Staff Type, Contact No, Rating, Status, and Action. The table lists 7 rows of data for 'Sanjana Rajapaksha' as Manager. At the bottom is a pagination bar showing 1-8 of 48.

Figure 118: Staff Members Table View (Wireframe)

Staff Members More Details View

The wireframe shows a modal window titled 'Staff Member Details'. It features a circular profile picture of a man, his name 'Ravindu Madhubhashana', and his staff ID 'C00001'. To the right are two tables: 'Total Income' (Rs.55600.00) and 'Basic Info'. The 'Total Income' table includes a summary and counts for completed, recalled, and cancelled appointments. The 'Basic Info' table lists personal details like first name, last name, gender, contact number, NIC, DOB, account number, and employment date.

Total Income	Rs.55600.00
All Appointments	250
Completed	100
Recalled	100
Cancelled	100

Basic Info	
First Name	Ravindu
Last Name	Madhubhashana
Gender	Male
Contact No	0714448856
NIC	94785212563
DOB	1999.12.25
Account No	874561616161
Employement Date	2019.03.05

Figure 119: Staff Members More Details View (Wireframe)

Add New Staff Member

Add New Staff Members

X

Basic Info

 First name
Type
You must type the first name

Last name
Type
You must type the last name

Gender Male Female Date Of Birth
mm/dd/yyyy
You must select a date

NIC
Type
You must type the nic

Staff type
Select staff
You must select a type

Contact Details

Address
Type
You must type the address

Contact Number
Type
You must type a contact number

Email
Type
You must type the email

Bank Account Details

Account number
Type
You must type a account number

Account holder's name
Type
You must type a account

Bank name
Type
You must type the bank

Add Staff Member

Figure 120: Add New Staff Member (Wireframe)

Remove Staff Member

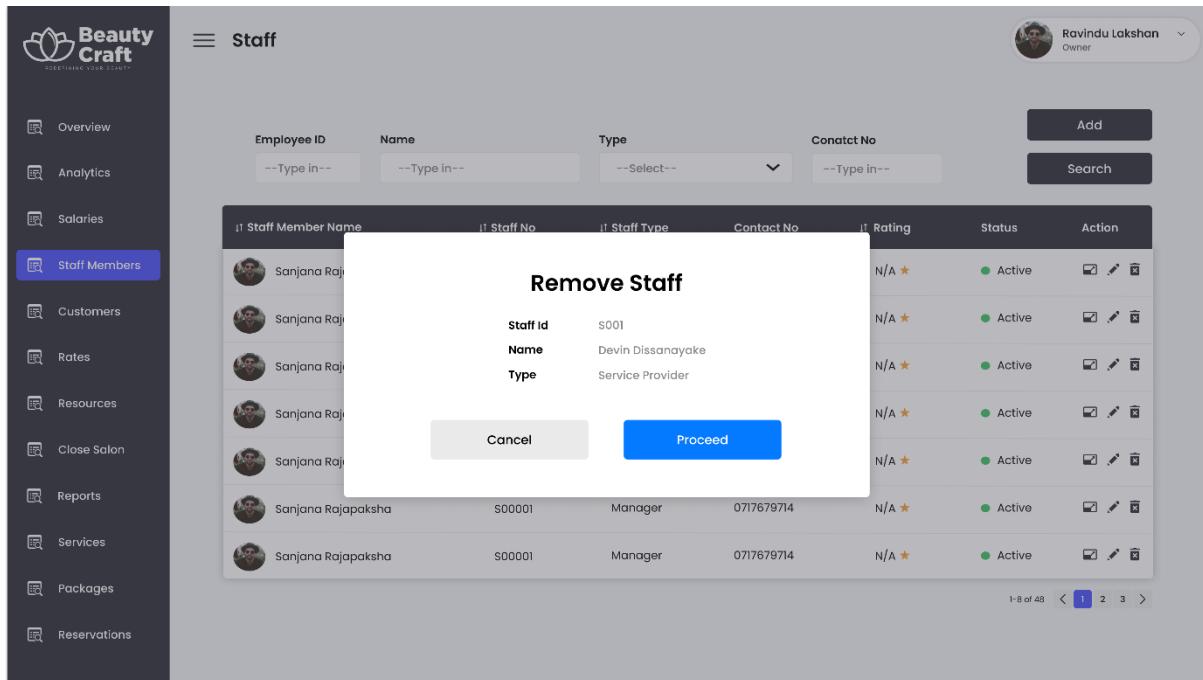


Figure 121: Remove Staff Member (Wireframe)

Leaves View

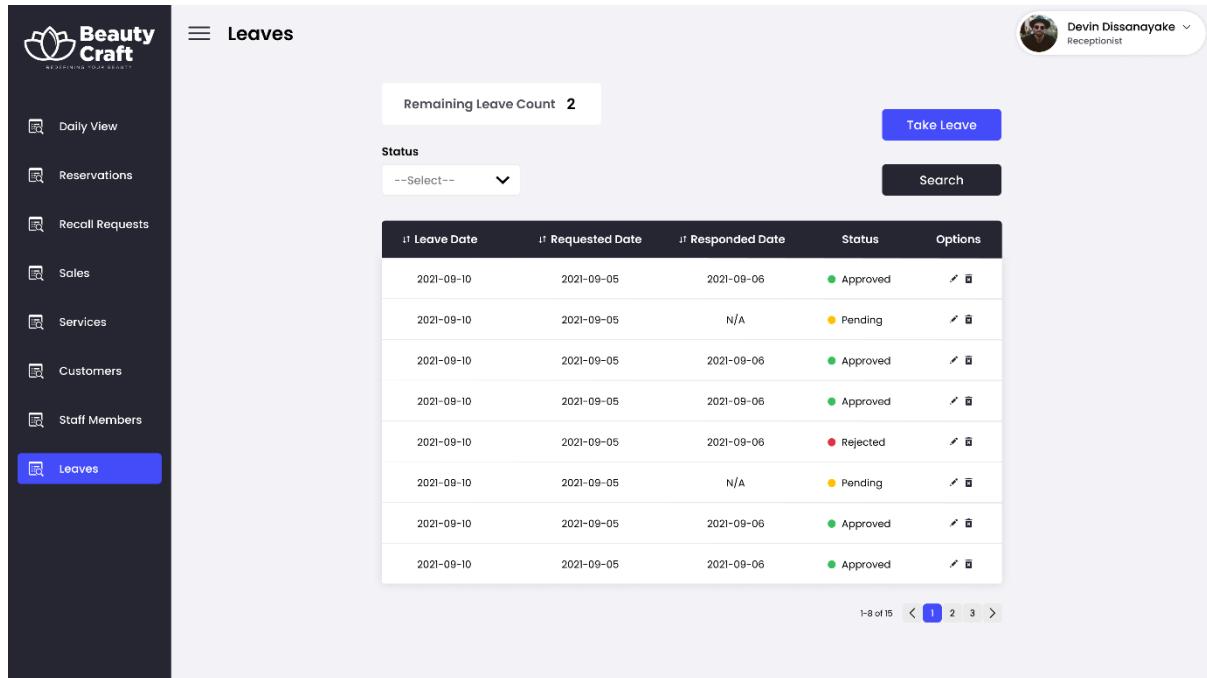


Figure 122: Leaves View (Wireframe)

Request Leave

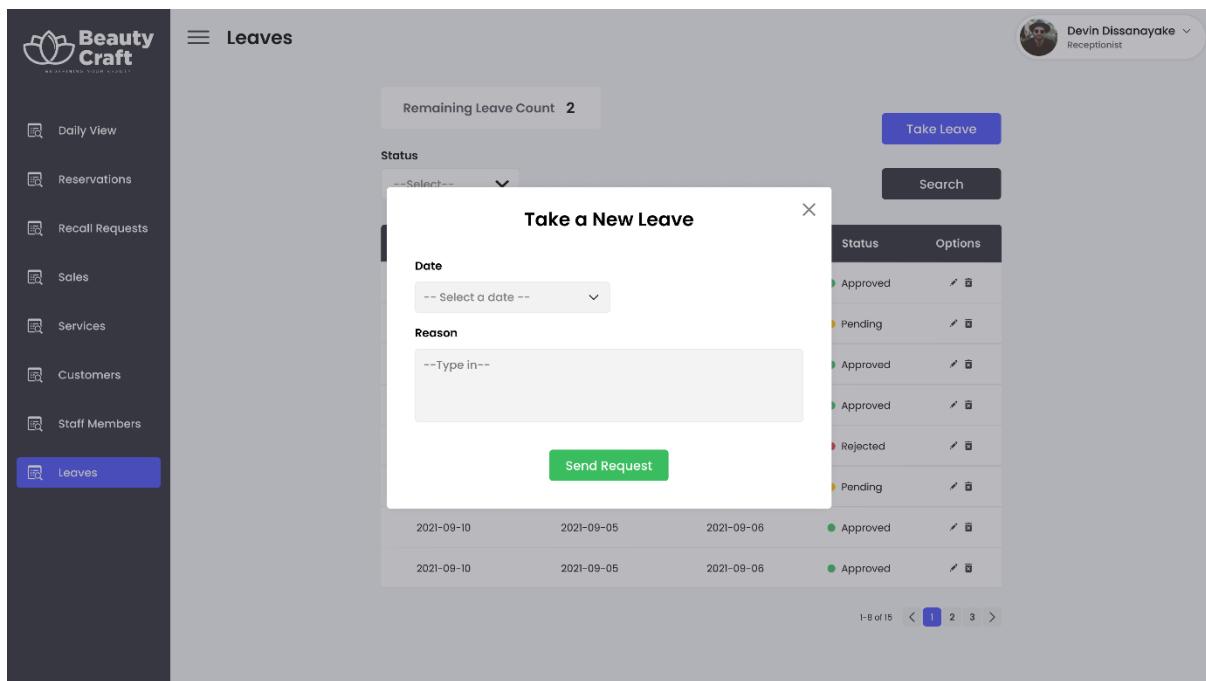


Figure 123: Request Leave (Wireframe)

Accept/ Reject Leave

The wireframe shows a staff member's details for a leave request: 'Staff Member Name' (Ruwanthi Munasignhe), 'Staff Type' (Service Provider), 'Staff ID' (S00001), 'Date' (05.03.2021), and 'Reason' (Go to hospital). Below these fields are two buttons: a green 'Approve' button and a red 'Reject' button.

Figure 124: Accept/ Reject Leave (Wireframe)

Manager Overview

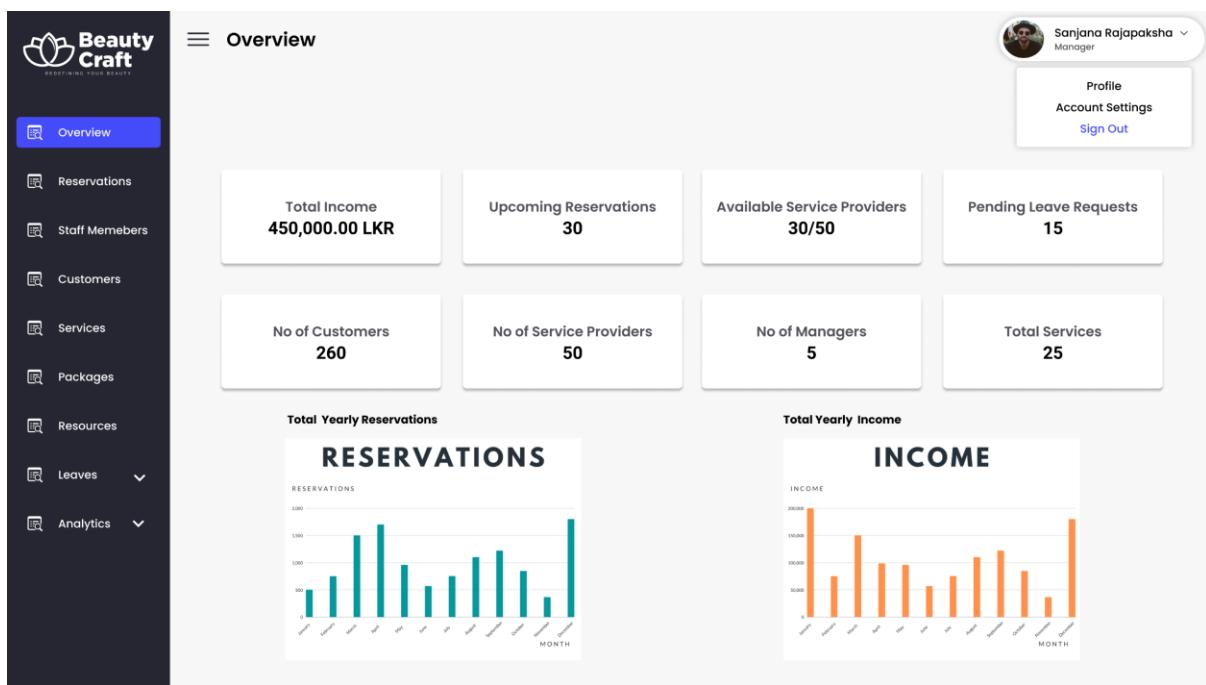


Figure 125: Manager Overview (Wireframe)

Overall Analysis (Manager/ Owner)

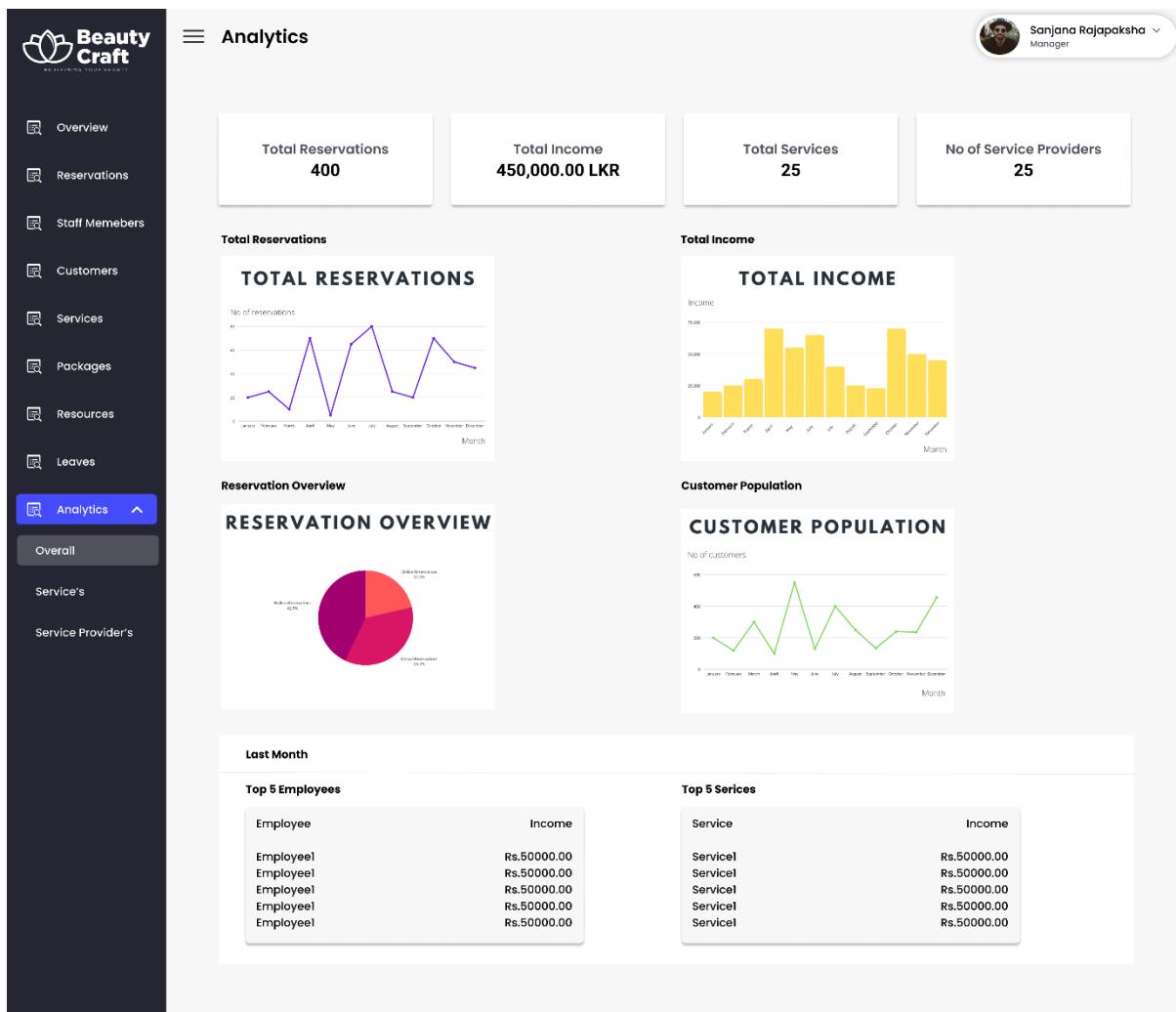


Figure 126: Overall Analysis (Manager/ Owner) (Wireframe)

Services Analysis

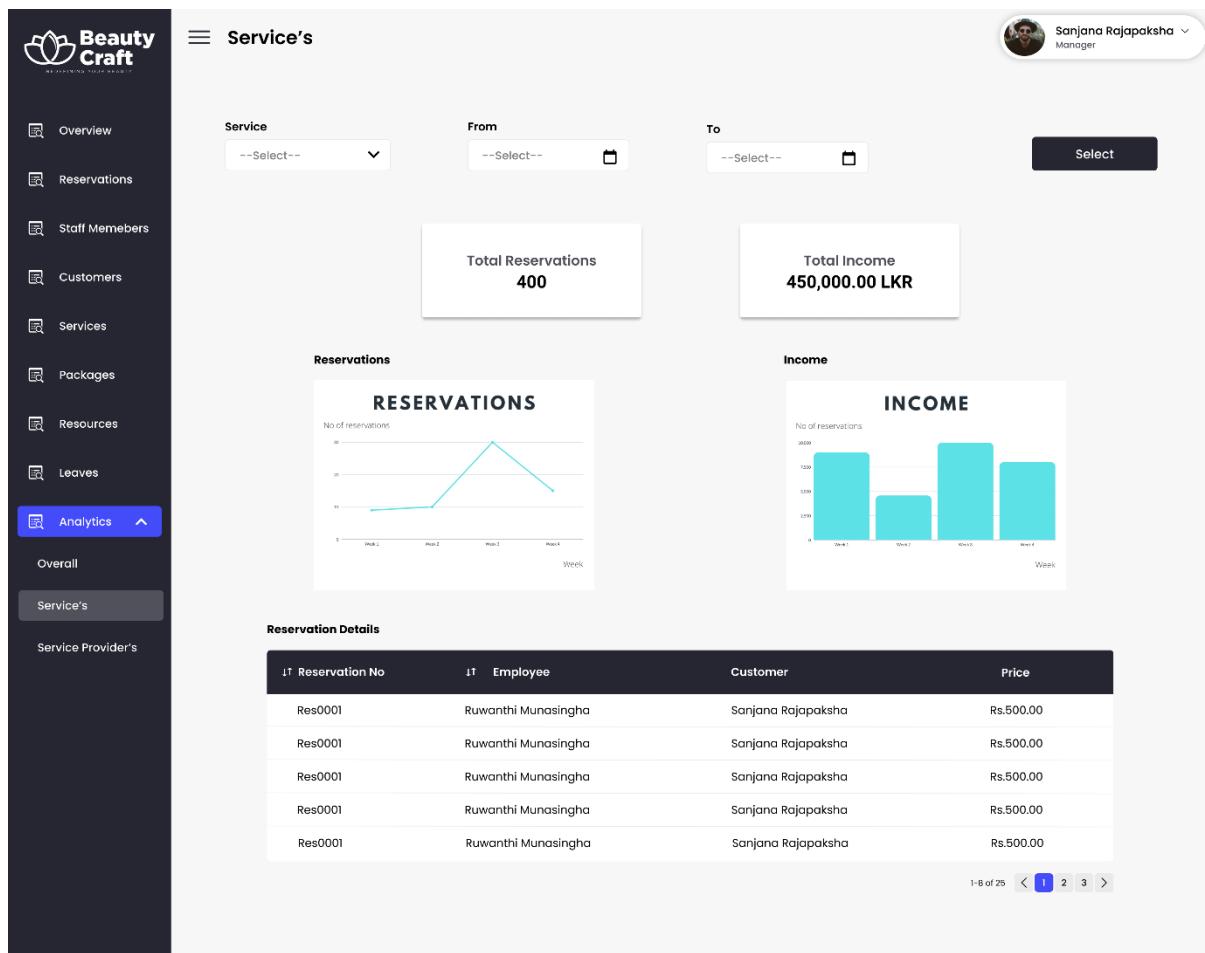


Figure 127: Services Analysis (Wireframe)

Service Providers Analysis

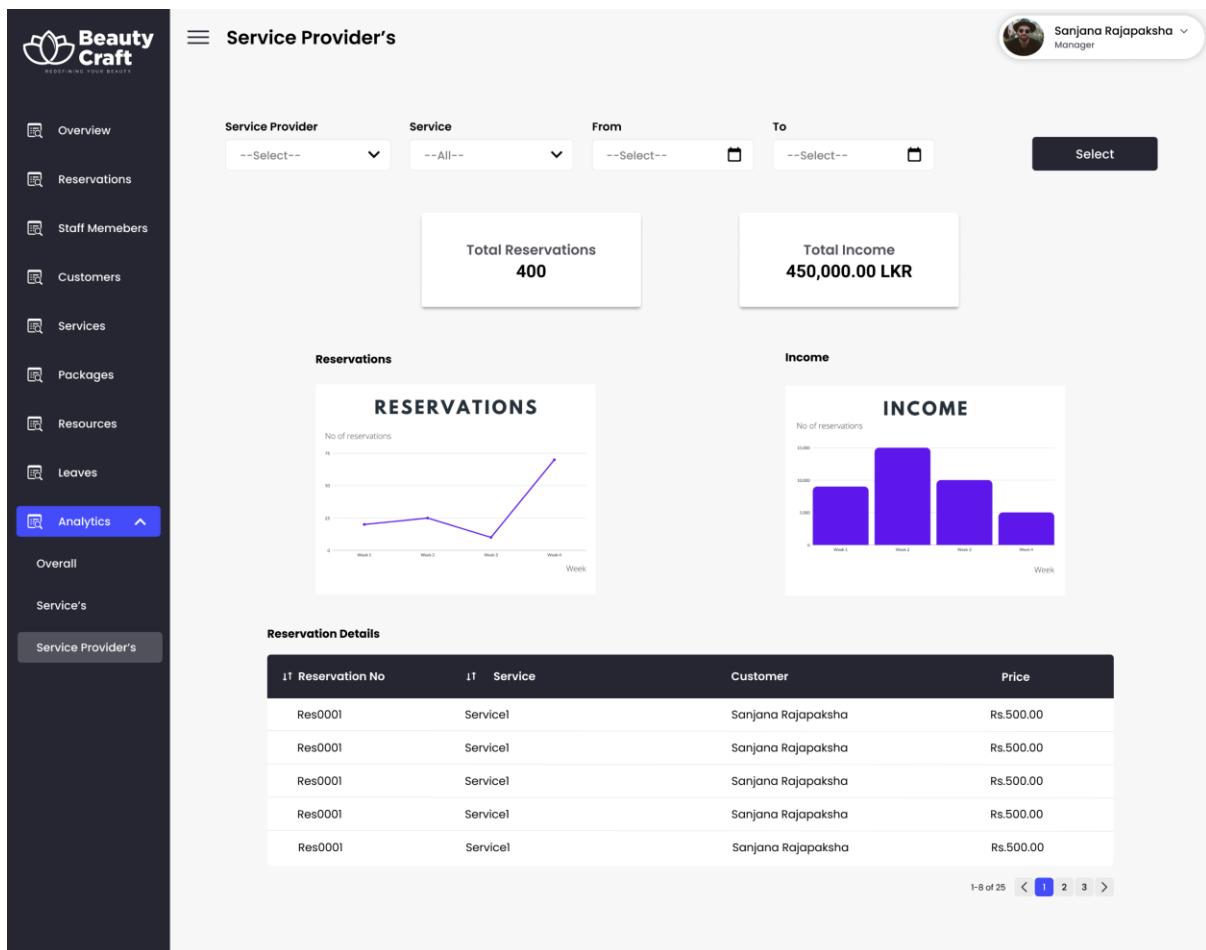


Figure 128: Service Providers Analysis (Wireframe)

Overview (Owner)

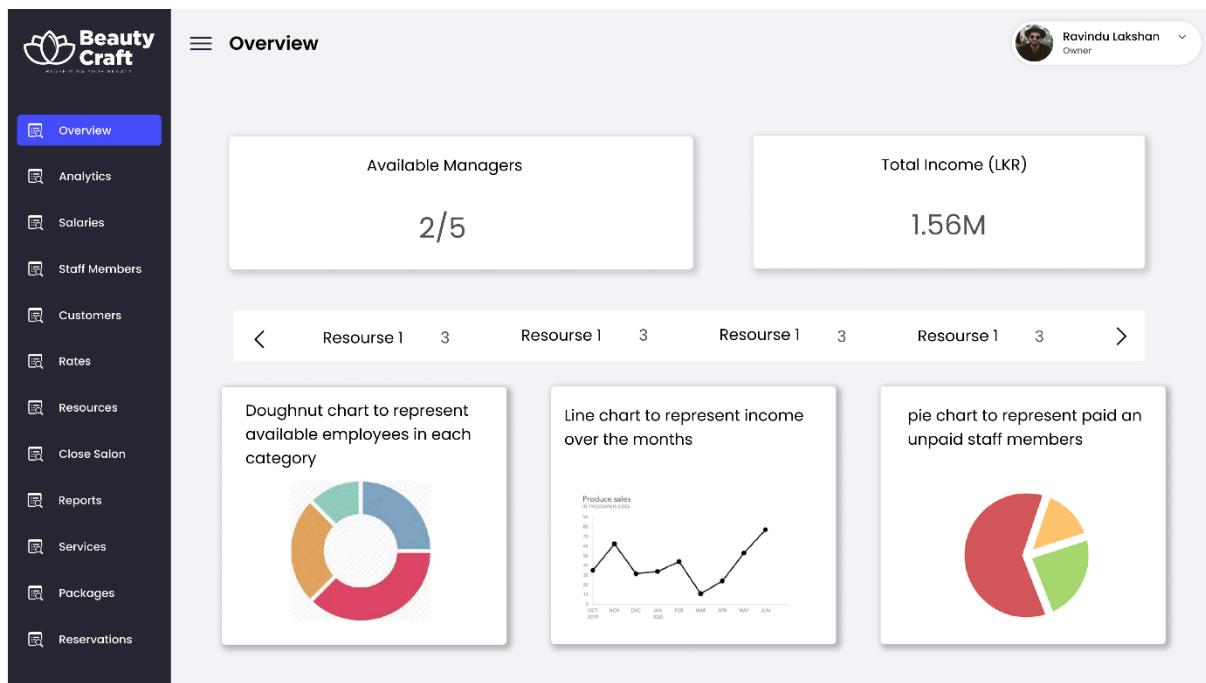


Figure 129: Overview (Owner) (Wireframe)

Salon Closed Dates View

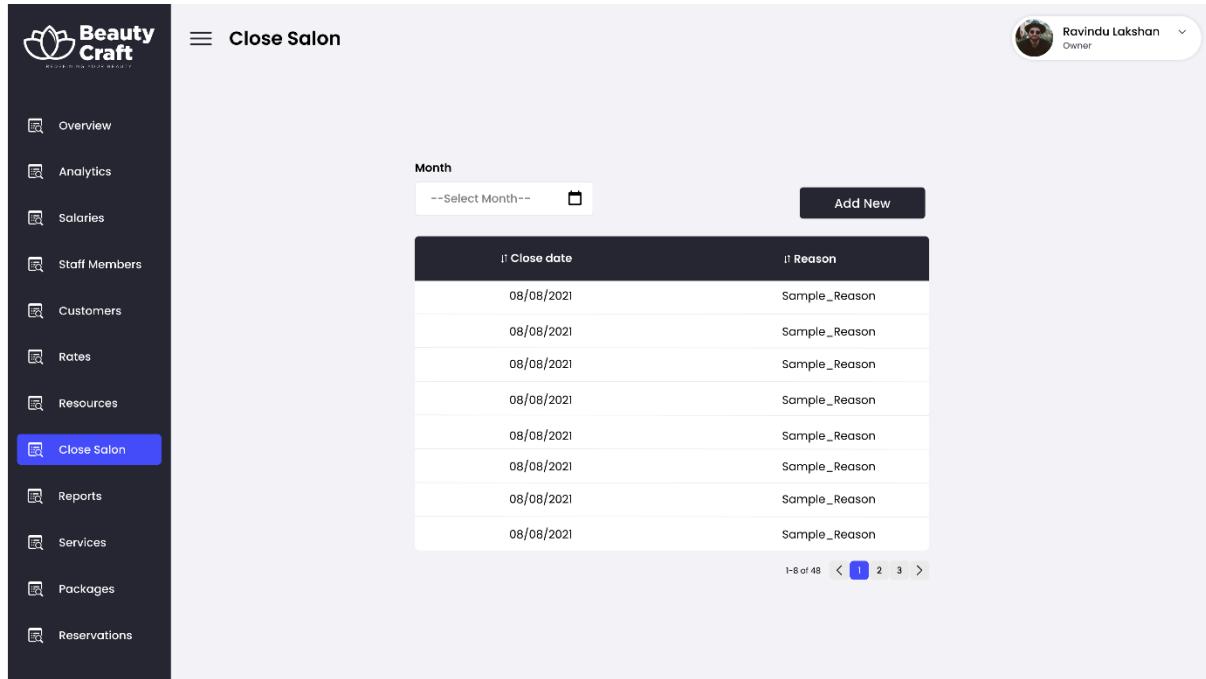


Figure 130: Salon Closed Dates View (Wireframe)

Add New Closed Date

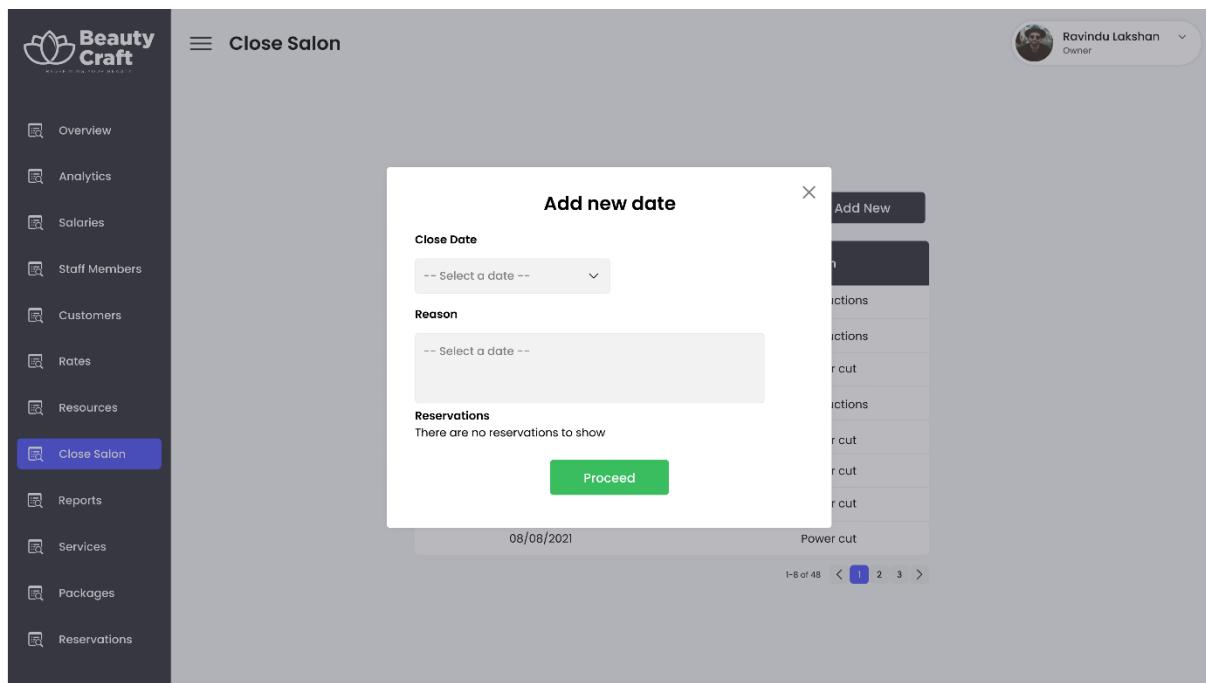


Figure 131: Add New Closed Date (Wireframe)

Resources View

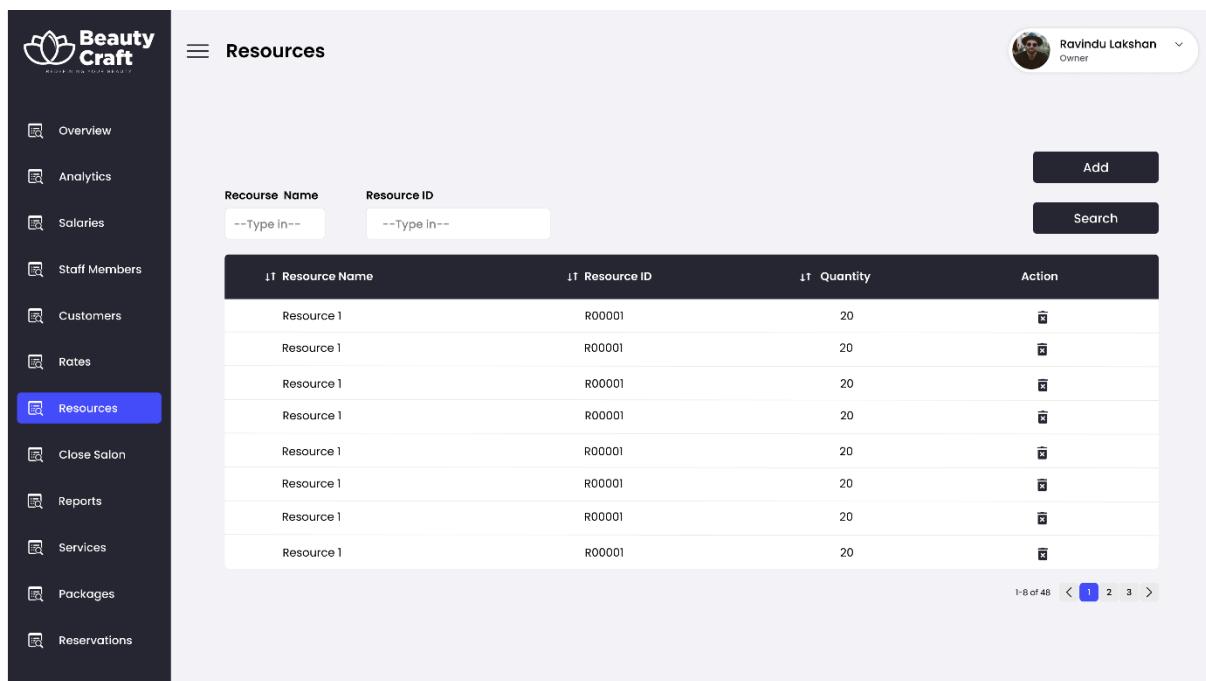


Figure 132: Resources View (Wireframe)

Add New Resource

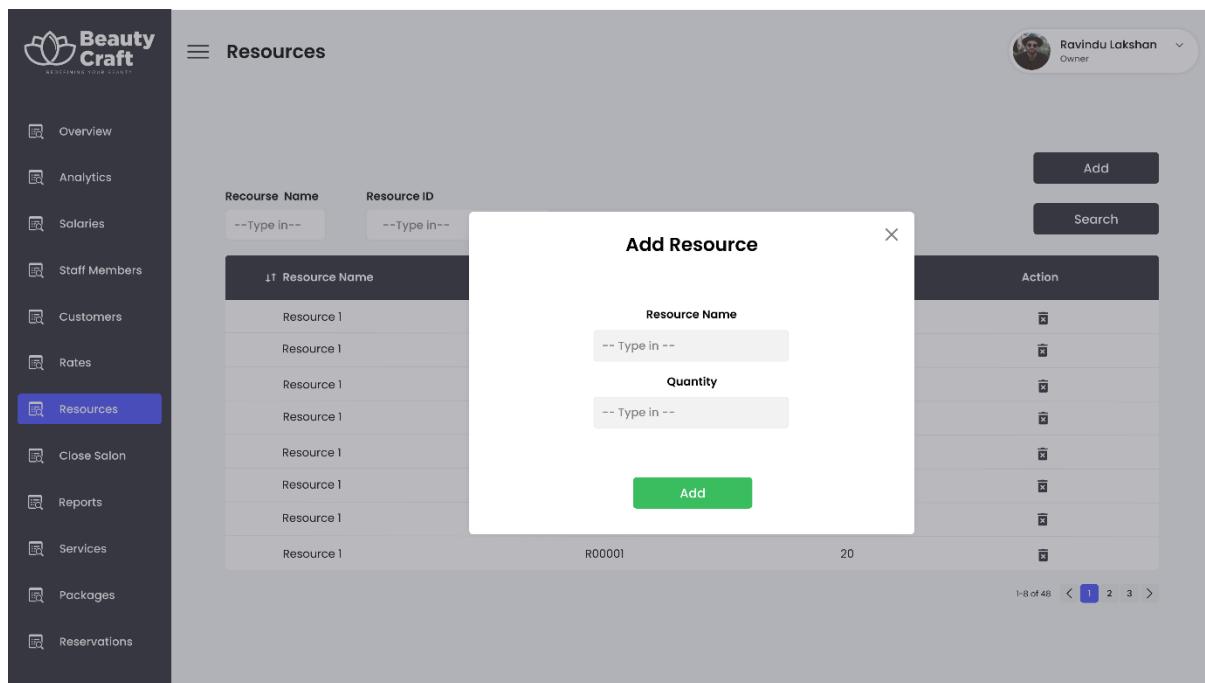


Figure 133: Add New Resource (Wireframe)

Delete Resources

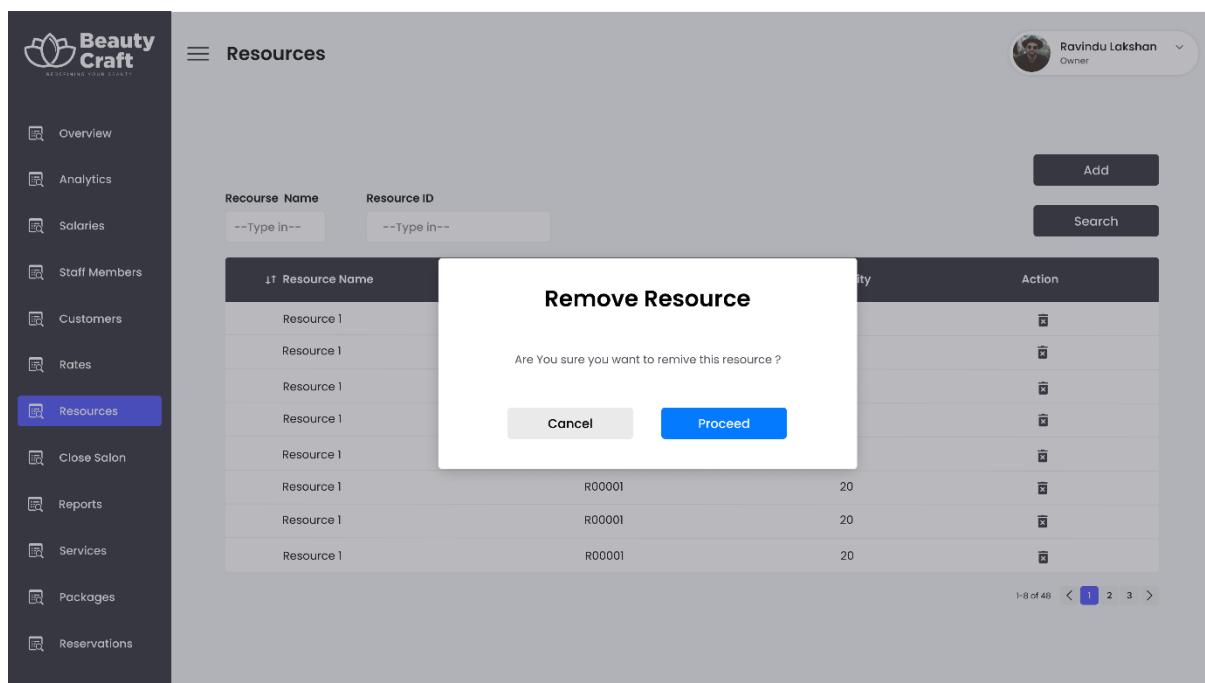


Figure 134: Delete Resources (Wireframe)

Salary Payments View

Staff Member Name	Staff ID	Staff Type	Salary	Month	Paid Status	Action
<input checked="" type="checkbox"/> Devin Dissanayake	S00001	Receptionist	Rs 25000.00	December	NOT PAID	<input type="button" value="Pay now"/>
<input type="checkbox"/> Devin Dissanayake	S00001	Receptionist	Rs 25000.00	December	PAID	<input type="button" value="Pay now"/>
<input type="checkbox"/> Devin Dissanayake	S00001	Receptionist	Rs 25000.00	December	PAID	<input type="button" value="Pay now"/>
<input checked="" type="checkbox"/> Devin Dissanayake	S00001	Receptionist	Rs 25000.00	December	NOT PAID	<input type="button" value="Pay now"/>
<input checked="" type="checkbox"/> Devin Dissanayake	S00001	Receptionist	Rs 25000.00	December	NOT PAID	<input type="button" value="Pay now"/>
<input type="checkbox"/> Devin Dissanayake	S00001	Receptionist	Rs 25000.00	December	PAID	<input type="button" value="Pay now"/>

Mark all selected as Paid

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Figure 135: Salary Payments View (Wireframe)

In-detail Salary Report

Staff member details		Deductions	
Employee Name	: Devin Dissanayake	Additional leave count	: 4
Staff Id	: R1234	Leave Deduction (LKR)	: -2500.00
Type	: Service Provider	Sub total	
Contact Number	: 0712345678	Total Salary (LKR)	: 47500.00

Earnings	
Basic Salary (LKR)	: +30000.00
Service Commission (LKR)	: +20000.00

Paid Details	
Paid Date	: 28/08/2021
Paid Amount (LKR)	: 47500.00

Figure 136: In-detail Salary Report (Wireframe)

Rate Change View

The wireframe shows the 'Rates' section of the Beauty Craft application. On the left is a sidebar with icons for Overview, Analytics, Salaries, Staff Members, Customers, Rates (which is selected and highlighted in blue), Resources, Close Salon, Reports, Services, Packages, and Reservations. The main area has a header 'Rates' with a profile picture for 'Ravindu Lakshan' and the title 'Owner'. Below this is a 'Month' dropdown labeled '--Select Month--'. Three boxes follow: 'Leave Limit' (Receptionist: 2, Manager: 2, Service Provider: 2), 'Commission Rate' (30%), and 'Minimum Number Of Managers' (5). A large box for 'Basic Salary (LKR)' shows values of 45,000.00 for Receptionist, Manager, and Service Provider.

Figure 137: Rate Change View (Wireframe)

Profile View (All Staff Members)

The wireframe shows the 'Profile' section for 'Devin Dissanayake' (Service Provider). The sidebar includes Overview, Reservations, Leaves, and Notification. Devin's profile picture, name, service provider status, and a 4.5-star rating are displayed. His employee ID is Emp00001. The 'Basic Info' section lists: Mobile Number (07123456789), NIC Number (123456789V), E-mail (abc@gmail.com), Date of Birth (2002.01.01), Gender (Male), and Employment Date (2021.05.08). The 'Address' section shows: 255A, Galle Road, Dehiwala. The 'Account number' is 8105678924. The 'Bank account holder's name' is Devin Dissanayake. The 'Assigned Services' section lists: Men's hair cut, Ladies short hair cut, Ladies long hair cut, Childrens hair cut, Men's hair color, and Men's hair conditioning treatment. A 'Change password' button is at the bottom.

Figure 138: Profile View (All Staff Members) (Wireframe)

Overview (Service Provider)

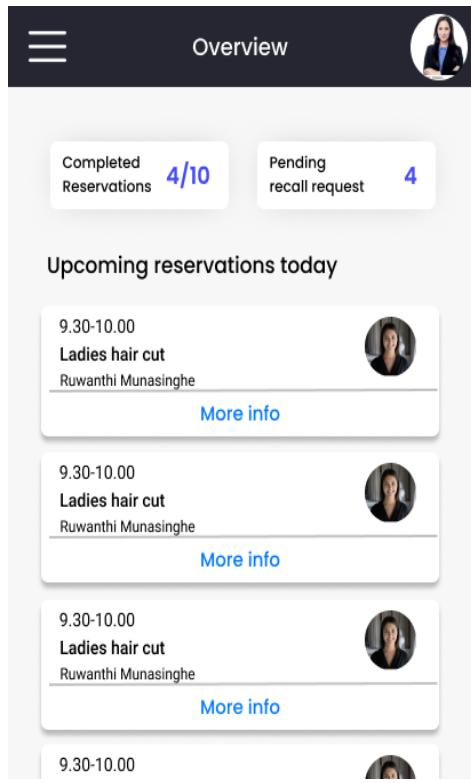


Figure 139: Overview (Service Provider) (Wireframe)

Reservation More Details View

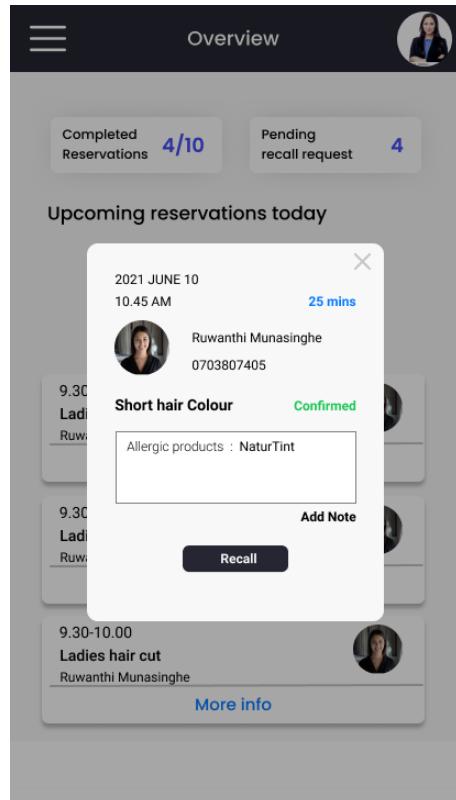


Figure 140: Reservation More Details View (Wireframe)

Assigned Reservations List View

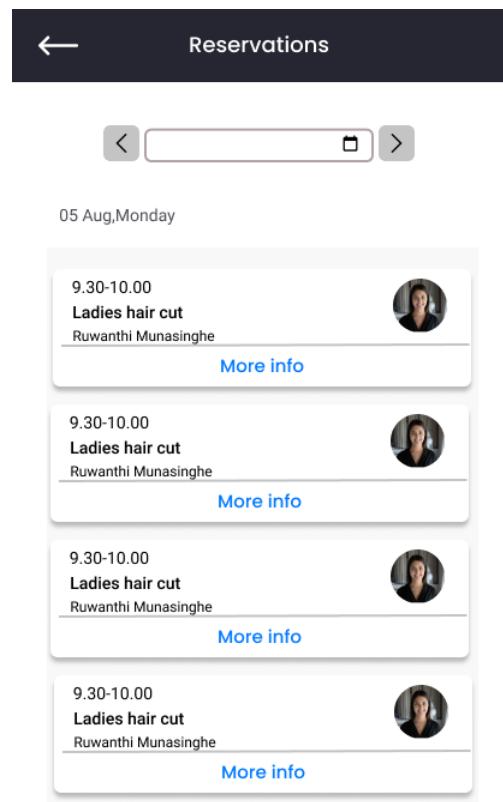


Figure 141: Assigned Reservations List View (Wireframe)
