



**Sri Lanka Institute of Information Technology**

Information Technology Project (IT2080)

**Batch ID - Y2.S2.WD.IT.10.01**

**Group ID - T141**

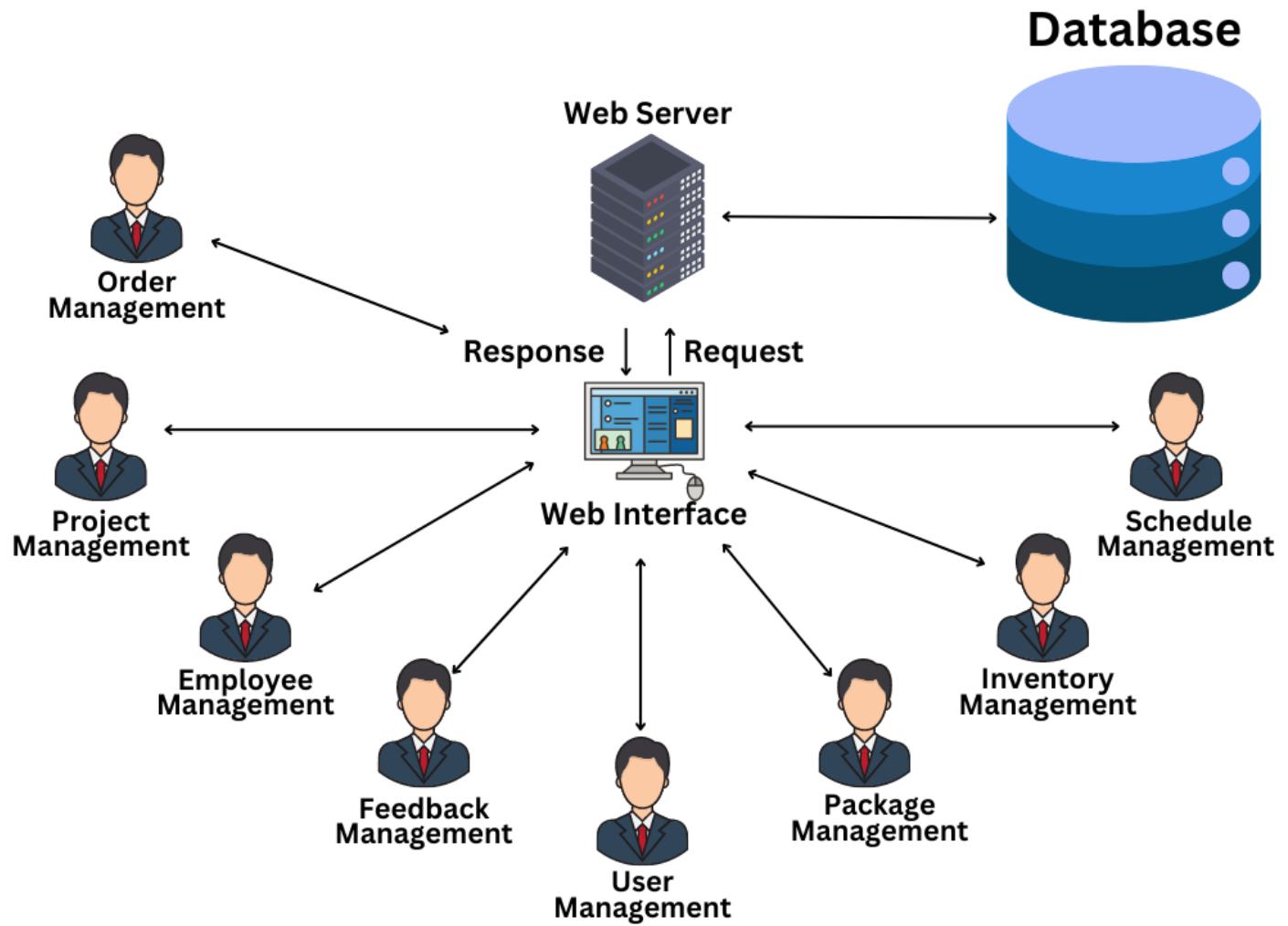
**Newton Electricals – Electrical Service Management System**

**Activity 03**

Submitted by:

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4.	Galappaththi A.G.R.S	IT22345578	0710798661	it22345578@my.sliit.lk
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# System Architecture



# GUI

The screenshot shows the login section of a website for 'NEWTON ELECTRICALS' (AIR CONDITIONING ELECTRIC SECURITY). The top navigation bar includes 'Services' repeated four times and two large colored buttons (orange and blue). The main content area features a 'Login to your account' form with fields for 'Email' and 'Password', and links for 'Forgot your password?' and 'Remember Me'. Below the form is a 'Or login with' section featuring a 'Google' button. A note at the bottom says 'Don't have an account yet? [Signup](#)'. To the right of the form is a large image of a smiling electrician in a red uniform holding a multimeter and some wires.

The screenshot shows the registration section of the same website. The top navigation bar is identical to the login page. The main content area features a 'Register' form with fields for First Name (e.g. John), Last Name (e.g. Smith), Email Address (e.g. john@your-domain.com), Phone Number (+00 0000 000 000), Website (e.g. https://google.com), Password, and Re-type Password. A note at the bottom says 'Creating an account means you're okay with our [Terms and Conditions](#) and our [Privacy Policy](#)'. Below the form are 'Register' and 'Sign in with Google' buttons. A horizontal line with the word 'OR' is positioned between the two buttons.

[Login](#)[Signup](#)

Services

Services

Services

Services

- [My Profile](#)
- [Active Rewards](#)
- [Rewards](#)
- [Contact our team](#)
- [Supports](#)
- [Supports](#)
- [Logout](#)
- [Request Deletion](#)



First Name:

Thomas D.

Last Name:

Hardison

Email:

thomasdhardison@daymep.com

Contact Number:

661-724-7734

Address:

1358 Hayhurst Lane

City:

McAllen

State:

New York

Zip code:

11357

Country:

United States

[Save](#)

#### Change Password

Old Password:

661-724-7734

New Password:

661-724-7734

Confirm Password:

661-724-7734

[Save](#)

[Login](#)[Signup](#)[Services](#)[Services](#)[Services](#)[Services](#)

- [My Profile](#)
- [Active Rewards](#)
- [Rewards](#)
- [Contact our team](#)
- [Supports](#)
- [Supports](#)
- [Logout](#)
- [Request Deletion](#)

Total

**3,567  
points**

CONGRATS !

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consectetuer[GOT IT](#)

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## career landing page

The screenshot shows the homepage of a career website for Newton Electricals. At the top, there's a dark blue header with the company logo, a "sign up" button, and a "Join our talented community" link. Below the header is a navigation bar with three buttons: "Career Center" (blue), "Current Openings" (orange), and "Customer Reactions" (grey). The main content area features a large image of five electrical workers in safety gear standing outdoors. Below the image is a testimonial about Mr. Dias, the founder. A box highlights the company's commitment to innovation and reliability. Another box discusses the team's focus on safety and quality. The "Current Openings" section includes a search bar and a "View all" button. The bottom of the page has a large blue and black footer.

Mr. Dias, the founder of Newton Electricals, embarked on his journey in the electrical industry at the age of 16. With a strong determination and a passion for the craft, he honed his skills through hands-on experience, dedicating himself to delivering top-notch services to his clientele.

Established in 2005, Newton Electricals has been committed to revolutionizing the electrical services landscape. Our company prides itself on being a cornerstone of reliability and innovation in the industry. From residential installations to large-scale commercial projects, we specialize in providing comprehensive electrical solutions that prioritize safety, efficiency, and customer satisfaction.

At Newton Electricals, we understand that every connection matters. That's why we strive to cultivate long-lasting relationships with our clients, built on a foundation of trust and integrity. Our team of skilled professionals is dedicated to exceeding expectations, ensuring that every project is executed with precision and excellence.

Current Openings

Search placeholder

View all

## current openings

The screenshot shows a page titled "current openings" for Newton Electricals. The header includes the company logo, a "Join our talented community" link, and a "Search placeholder". The main content area is titled "Current Openings" and contains four large, empty grey boxes representing job listings. Below this is a large blue and black footer.

Join our talented community

Search placeholder

Current Openings

[Sign Up](#)[Login](#)[Services](#)[Services](#)[Services](#)[Services](#)[Services](#)

# Electrical Services

If you need expert electrical services, contact NEWTON Electric, Security, Air Conditioning & Heating! Our highly trained and professional technicians have the expertise, knowledge and experience to diagnose and repair electrical issues.

[Schedule Service](#)

# Cooling Services

Our team at Newton Electrical understands the importance of a well-maintained cooling system, especially in hot climates like Sri Lanka. We can cater to all your air conditioning needs, from annual inspections to ensure your equipment's health to complete system replacements. We specialize in servicing central air conditioning units and ductless systems for homeowners and small businesses across the country.

[Schedule Service](#)



Services

Services

Services

Services

SERVICE SCHEDULE

## WHAT CAN WE DO FOR YOU

*Electrical*



*Cooling*



*Tell us more about your request.*

**Next**

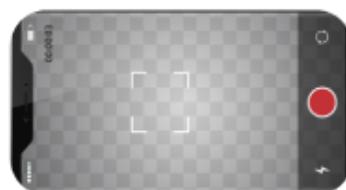


Services Services Services Services

SERVICE SCHEDULE

## DESCRIBE YOUR ISSUE

*upload a video or a picture to identify the problem*



+

+

+

+

Next



Services

Services

Services

Services

## SERVICE SCHEDULE

# WHERE IS YOUR LOCATION

First name

Last name

Address

City

Province

Zip code

I own this residential property

Next



Services Services Services Services

## SERVICE SCHEDULE

# SELECT YOUR TIME SLOT

March 2024						
S	M	T	W	T	F	S
		25	26	27	28	29
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Available time slots
8.30 - 10.30 am
10.30 - 12.30 am
12.30 - 2.30 pm
2.30 - 4.30 pm

## FINALIZE YOUR BOOKING



### SWITCH/OUTLET

*Schedule Service/ Electrical*

📅 Monday, February 26

⌚ 10:00am-12:00pm

📍 122/6, Ahanthota road Malabe

📞 071 1111111

⌚ LKR 15 000.00

**Confirm Appointment**

[Sign up](#)[Login](#)

Services

Services

Services

Services

My booking

## Ongoing Appointment

Service	Date	Time	Address	Price(LRS)
Outlet repair	2024/05/02	8.30-10.30	122/3,jayasiri road ,colombo 07	15 000.00
A/C repair	2024/04/20	10.30-12.30	122/3,jayasiri road ,colombo 07	16 000.00

[Reschedule](#)[Cancel](#)[Reschedule](#)[Cancel](#)

## Complete Appointment

Service	Date	Time	Address	Price(LRS)
Outlet repair	2023/05/26	2.30-4.30	205/4,surupura, mathale	26 000.00
Outlet repair	2024/02/14	12.30-2.30	205/4,surupura, mathale	13 000.00

 Services Services Services Services

 Services Services Services Services

### Create New Feedback

First Name\*

Last Name\*

Email\*

Contact Number\*

Feedback\*

Ratings\*

★ ★ ★ ★ ★

[Cancel](#)

[Submit](#)

### Update Feedback

First Name\*

Last Name\*

Email\*

Contact Number\*

Feedback\*

I'm writing to provide feedback .....

Ratings\*

★ ★ ★ ★ ☆

[Cancel](#)

[Submit](#)

**Newton Electricals** AIR CONDITIONING ELECTRIC SECURITY

Services Services Services Services

Home / Products **SORT**

Filter CLEAR ALL

PRICE RANGE(LKR)

20,000.00 to 500,000.00

categories

- Lighting
- Backup power solutions
- Security systems
- Solar panel
- Wiring

SHOW MORE

**Newton Electricals** AIR CONDITIONING ELECTRIC SECURITY

Services Services Services Services

**Singer Instant Shower Heater**

**PRODUCT CODE-A0002**

**Available**

**RS.45,000**

**BUY NOW** **ADD TO CART**

The screenshot shows a mobile application interface for a company named "Newton Electricals". The top navigation bar has four tabs labeled "Services" in white text on a dark background. Below the navigation is a large, bold title "Offer Packages". Underneath this, a section titled "Preventive Maintenance" is displayed. A descriptive paragraph explains the benefits of the package, mentioning proactive maintenance like cleaning, lubricating, and tightening electrical connections, which prevent breakdowns, extend equipment life, reduce downtime, save time and money, and boost safety and reliability. Below the description is a list of services with icons: a lightbulb for "Equipment cleaning", a gear for "Equipment lubricating", and a wrench for "Tightening electrical connections". Under each service, there are two payment options: "Monthly RS.8000" with a radio button and "Annual RS.24000" with a checkbox. At the bottom of the card are two orange buttons: "Pay Now" and "Add to cart".

Newton Electricals  
AIR CONDITIONING  
ELECTRIC SECURITY

Services Services Services Services

## Offer Packages

### Preventive Maintenance

In this package, you can enjoy proactive maintenance like cleaning, lubricating, and tightening electrical connections. These steps prevent breakdowns, extend equipment life, reduce downtime, save time and money, and boost safety and reliability.

- 💡 Equipment cleaning
- 💡 Equipment lubricating
- 💡 Tightening electrical connections

Monthly RS.8000

Annual RS.24000

**Pay Now** **Add to cart**



Services

Services

Services

Services

## Offer Packages

Welcome to Newton Electricals! Choose from our range of electrical service packages tailored to meet your needs.

### Preventive Maintenance

**Rs.8000** - Monthly  
**Rs.24000** - Annual

- ⌚ Equipment cleaning
- ⌚ Equipment lubricating
- ⌚ Tightening electrical connections

[View](#)

### Preventive Maintenance

**Rs.8000** - Monthly  
**Rs.24000** - Annual

- ⌚ Equipment cleaning
- ⌚ Equipment lubricating
- ⌚ Tightening electrical connections

[View](#)

### Preventive Maintenance

**Rs.8000** - Monthly  
**Rs.24000** - Annual

- ⌚ Equipment cleaning
- ⌚ Equipment lubricating
- ⌚ Tightening electrical connections

[View](#)



[ADD](#)

**Offer Packages**

ID: P001

### Preventive Maintenance

In this package, you can enjoy proactive maintenance like cleaning, lubricating, and tightening electrical connections. These steps prevent breakdowns, extend equipment life, reduce downtime, save time and money, and boost safety and reliability.

⌚ Equipment cleaning	RS.500
⌚ Equipment lubricating	RS.700
⌚ Tightening electrical connections	RS.800
Total	RS.2000

Monthly [RS.8000](#)  
 Annual [RS.24000](#)  
 Discounted Monthly [RS.8000](#)  
 Discounted Annual [RS.24000](#)

[EDIT](#) [DELETE](#)

Newton Electricals

Services Services Services Services

**Package Name\***  
Package one

**Package ID\***  
P001

**Description\***  
Description

**Services\***

- First Service
- Second Service
- Third Service
- Fourth Service

**Prices (RS)\***

- Price of First Service
- Price of Second Service
- Price of Third Service
- Price of Fourth Service

**Calculate Total prices**

Total price  
Monthly price  
Annual price

**Discount Percentage**  
Monthly % Annual

**Calculate Discounted prices**

Discounted Monthly price  
Discounted Annual price

**SUBMIT**

**Project Management - User Interface**

**Newton Electricals**

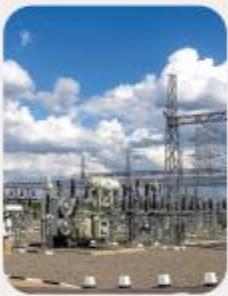
Services Services Services Services

## Project Management

Newton Electricals leads the industry in Electrical Projects, offering professional installation services compliant with IEC, BS & SLS standards. We specialize in all types of electrical installation for various buildings, providing comprehensive solutions including point wiring, panel boards, light installation, cabling, ELV solutions, and cable management systems. Trust us for your electrical needs.



### Ongoing Projects



CEB Sub Station  
Kalavana



MR Apartments  
Kaluthara



Luxury House Wiring  
All Island

### Previous Projects



Heritance Hotel  
Ahungalla



ST Claret College  
Ragama



ESOFT Metro Campus  
Kurunegala

## Ongoing Projects



Services

Services

Services

Services

## Ongoing Projects



### CEB Sub Station - Kalavana

New Kalavana Sub Station LV wiring at Kukule.  
MR Construction (PVT) LTD is the main contractor.

### MR Apartments - Kaluthara

80+ Million electrical project conducted by our company.  
Electrical Wiring, Panel Boards & Lightning protection done by Newton Electricals.

### Luxury House Wiring - All Island

Luxury House wiring of apartments and Condominium Buildings including light firings and panel boards.

## Previous Projects



Services

Services

Services

Services

## Previous Projects



### Heritance Hotel - Ahungalla

Electrical Wiring Sub Contract under Wikramage Engineering (PVT) LTD.  
Light Point and Socket Outlet Wiring.

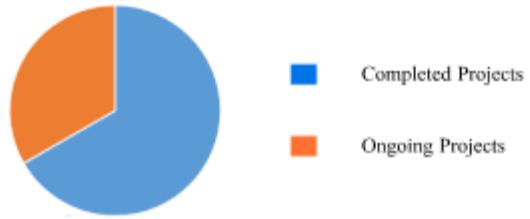
### ST Claret College - Ragama

20+ Million electrical project done for ST Claret College.  
Total LV & ELV system conducted by Newton Electricals.

### ESOFT Metro Campus - Kurunegala

10+ Million worth rewiring of the Main Building of ESOFT Metro Campus.  
Panel boards newly installed.

## Project Management - Project Manager Interface



### Add Projects

**Title \***

**Status \***

**Description \***

**Duration \***

**Cost \***

**Save**

### Projects Details

Search

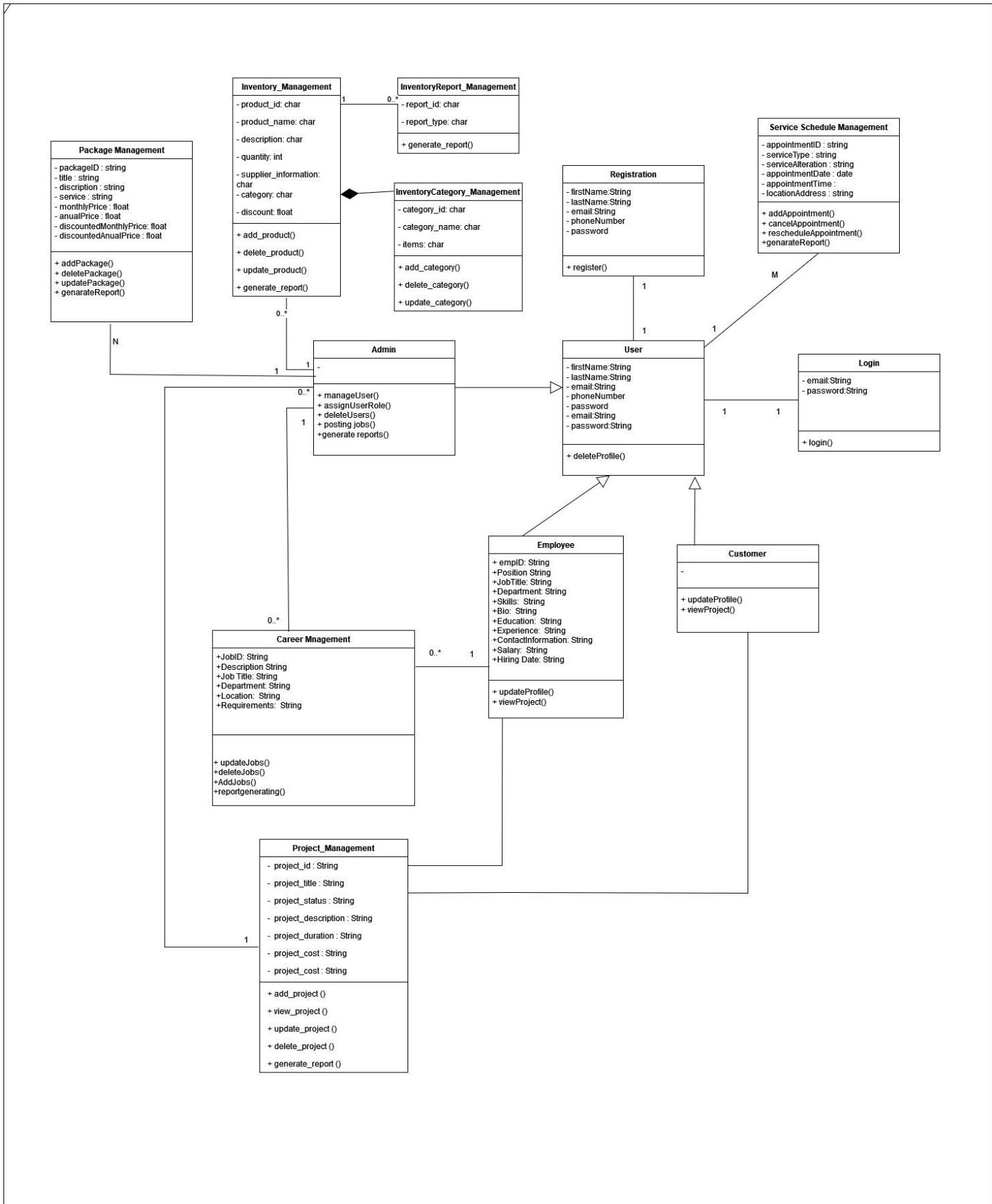
Title	Status	Description	Duration	Cost
Heritage Hotel - Alangalla	Pending	Electrical Wiring Sub-Contract under Wilkinson Engineering (PVT) LTD. Light Point and Socket Outlet Wiring.	18 months	60+ Million
MR Apartments - Kalathur	Ongoing	Electrical Wiring, Panel Boards & Lighting fixtures done by Newton Electricals.	28 months	80+ Million

Update

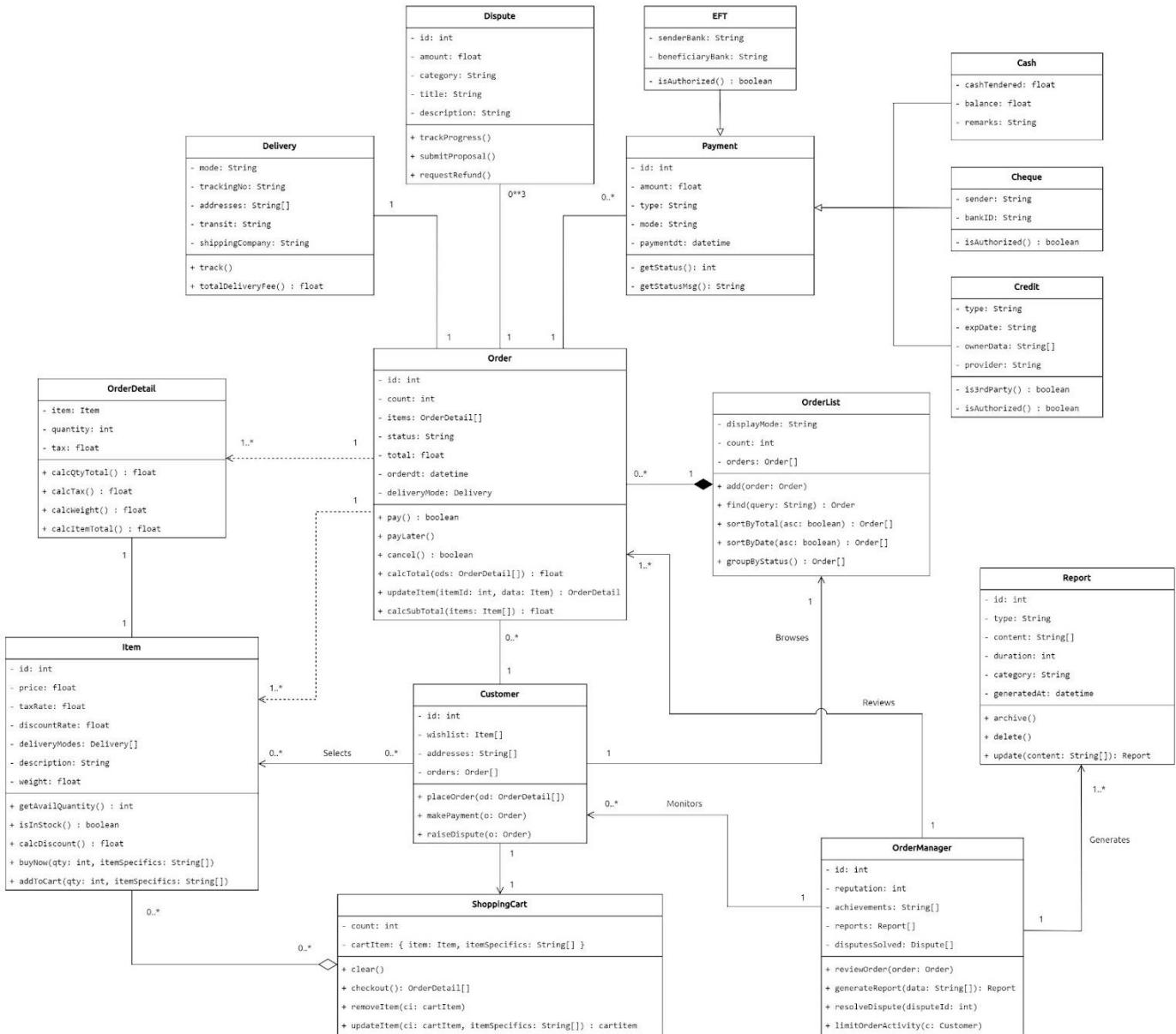
Delete

Generate Reports

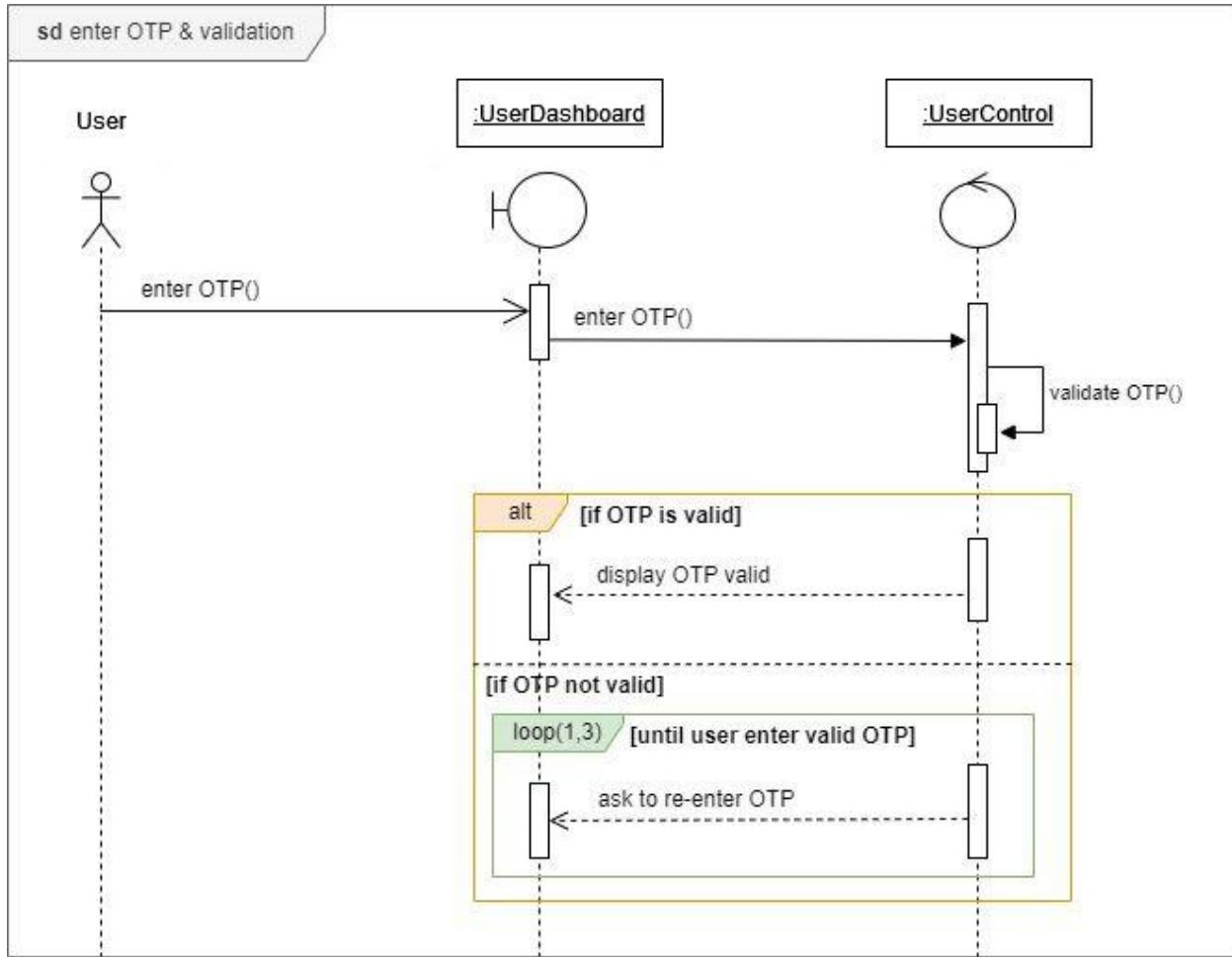
# Class Diagram

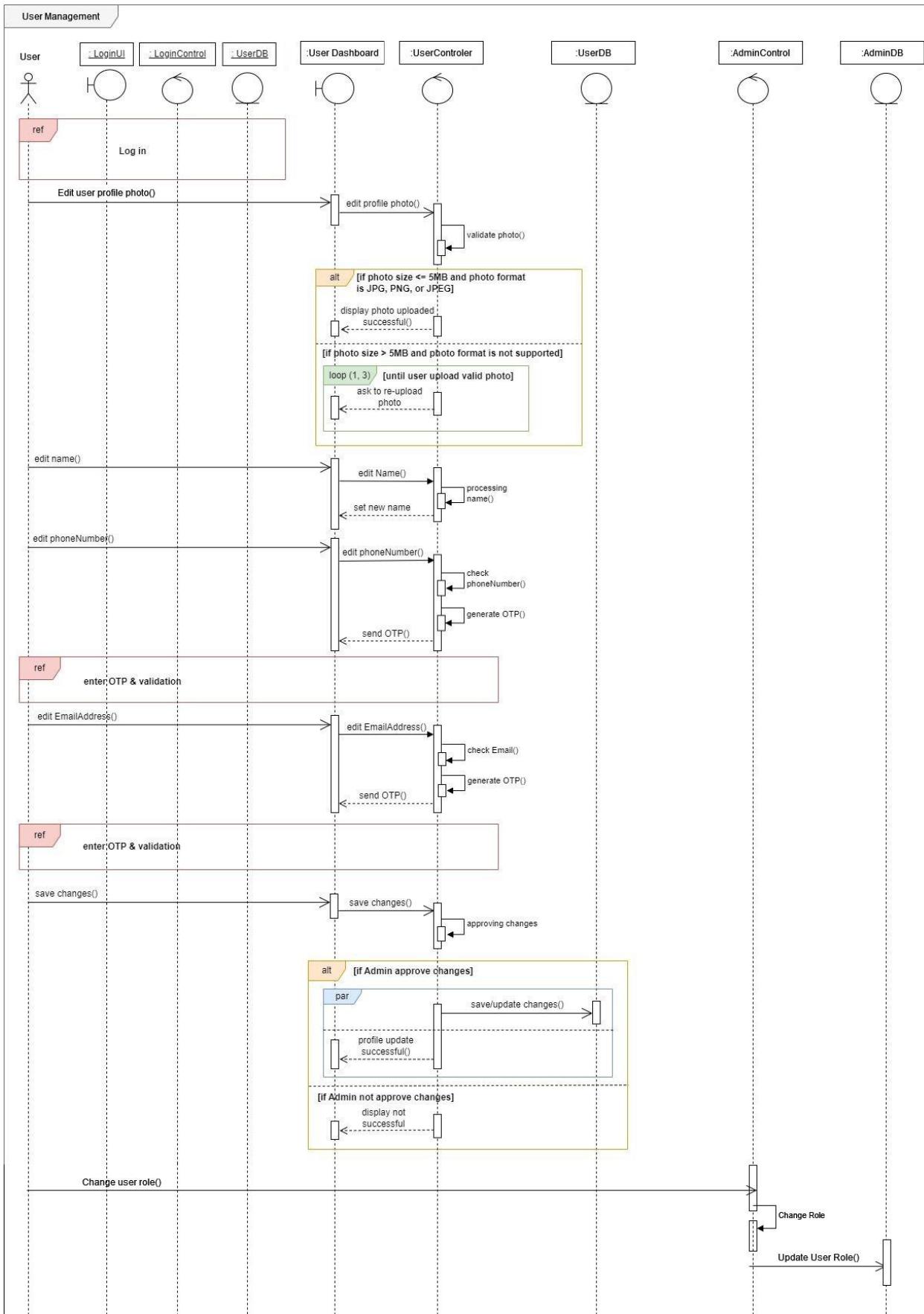


# Order Management

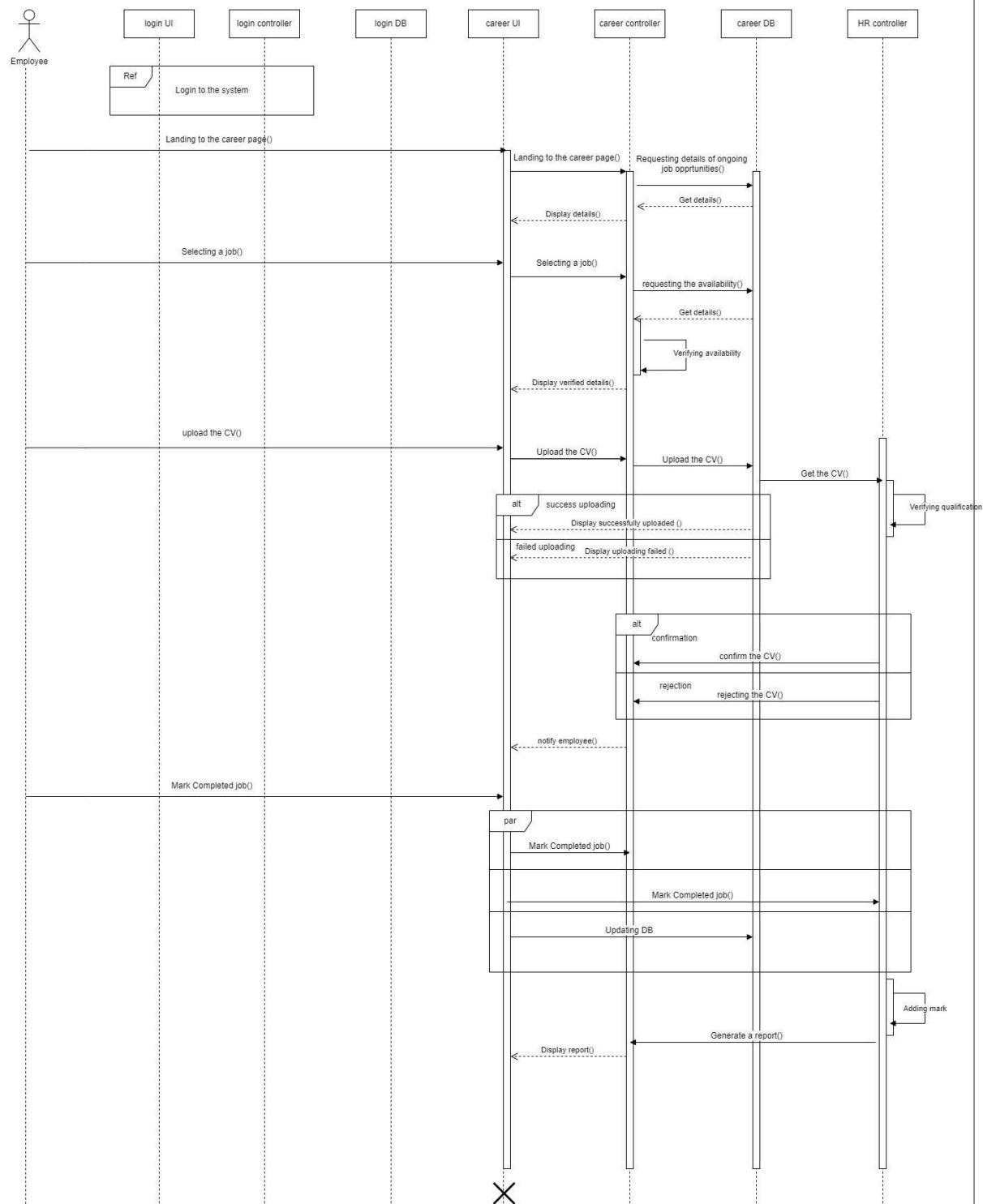


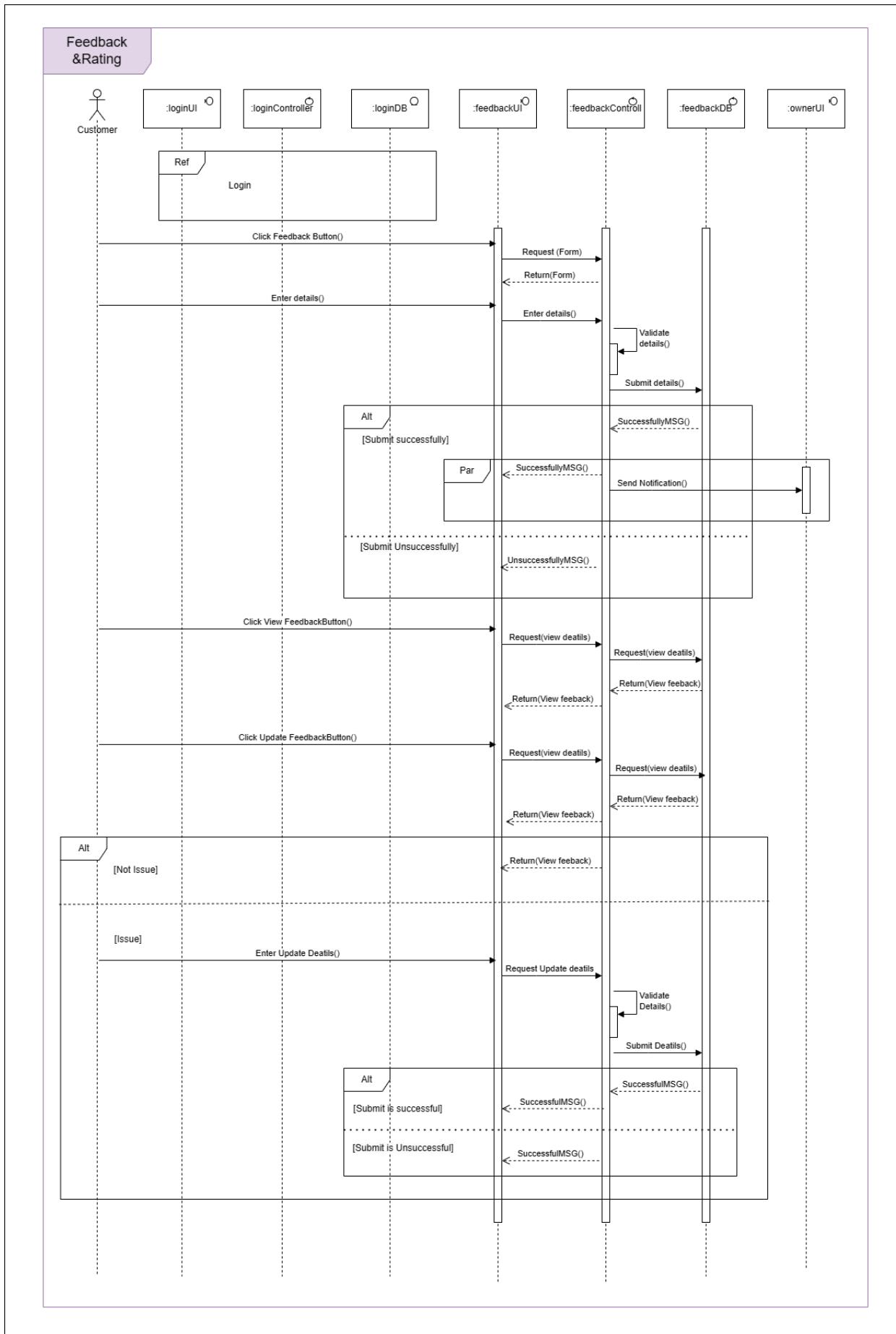
# Sequence Diagram

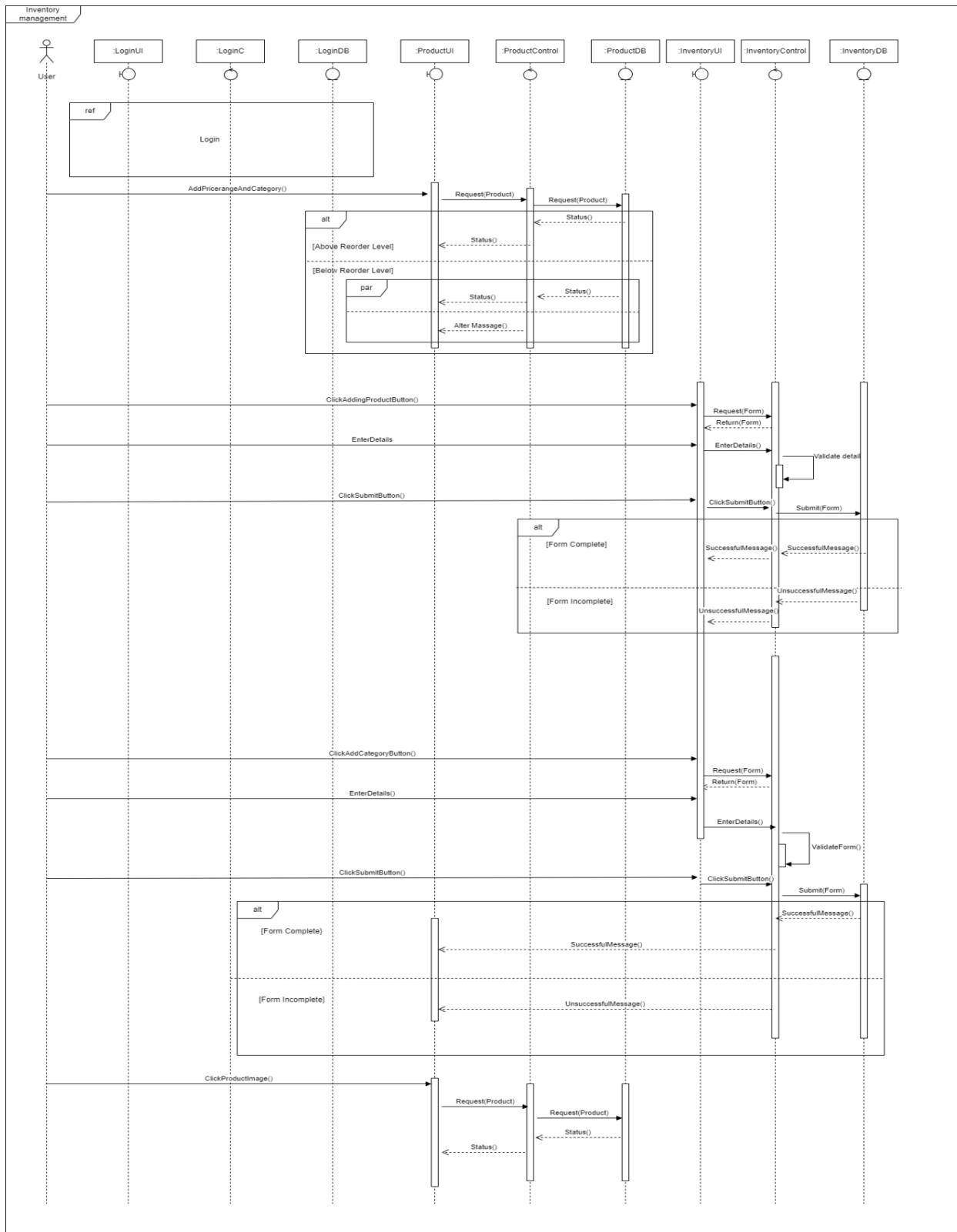


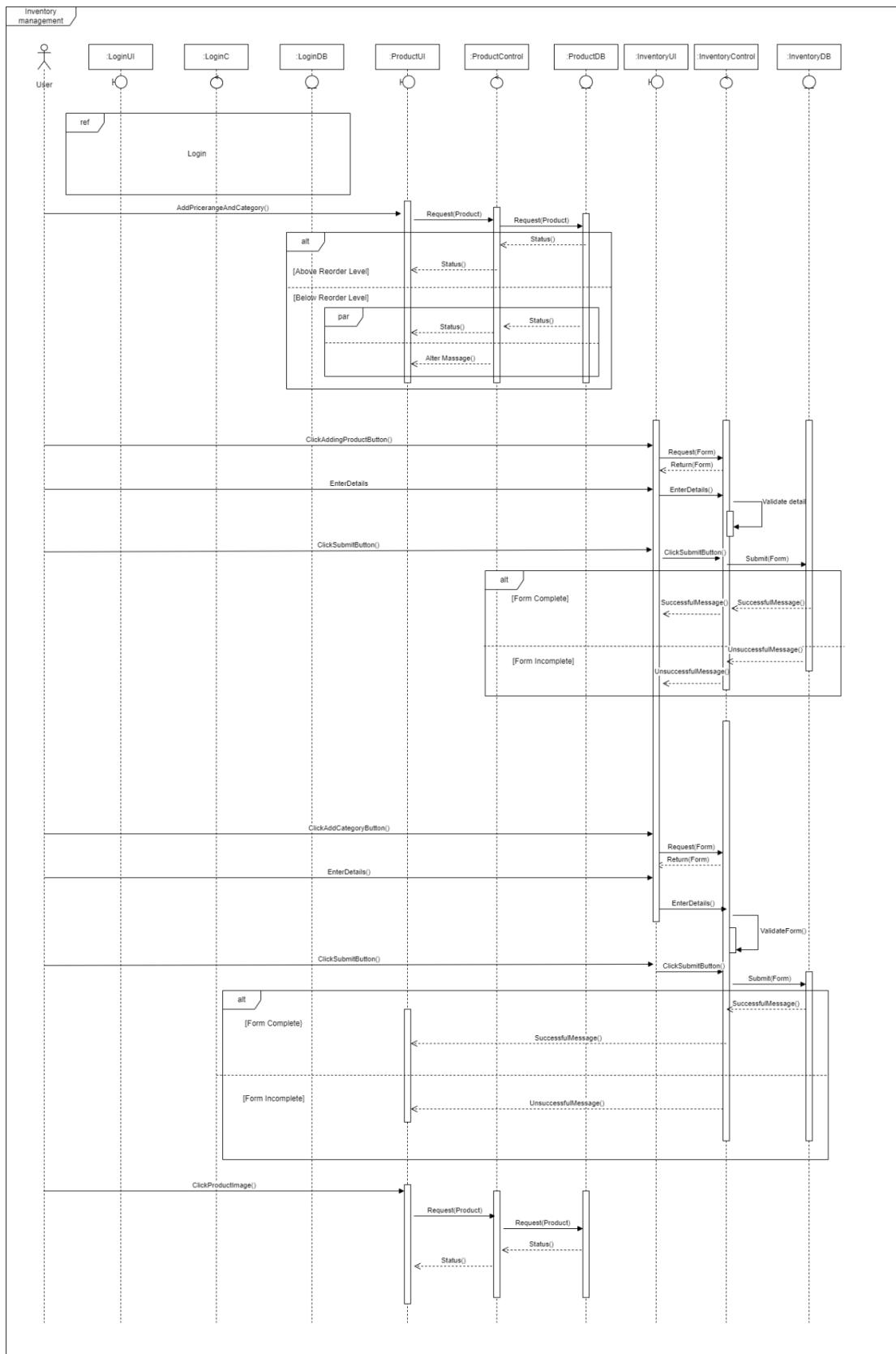


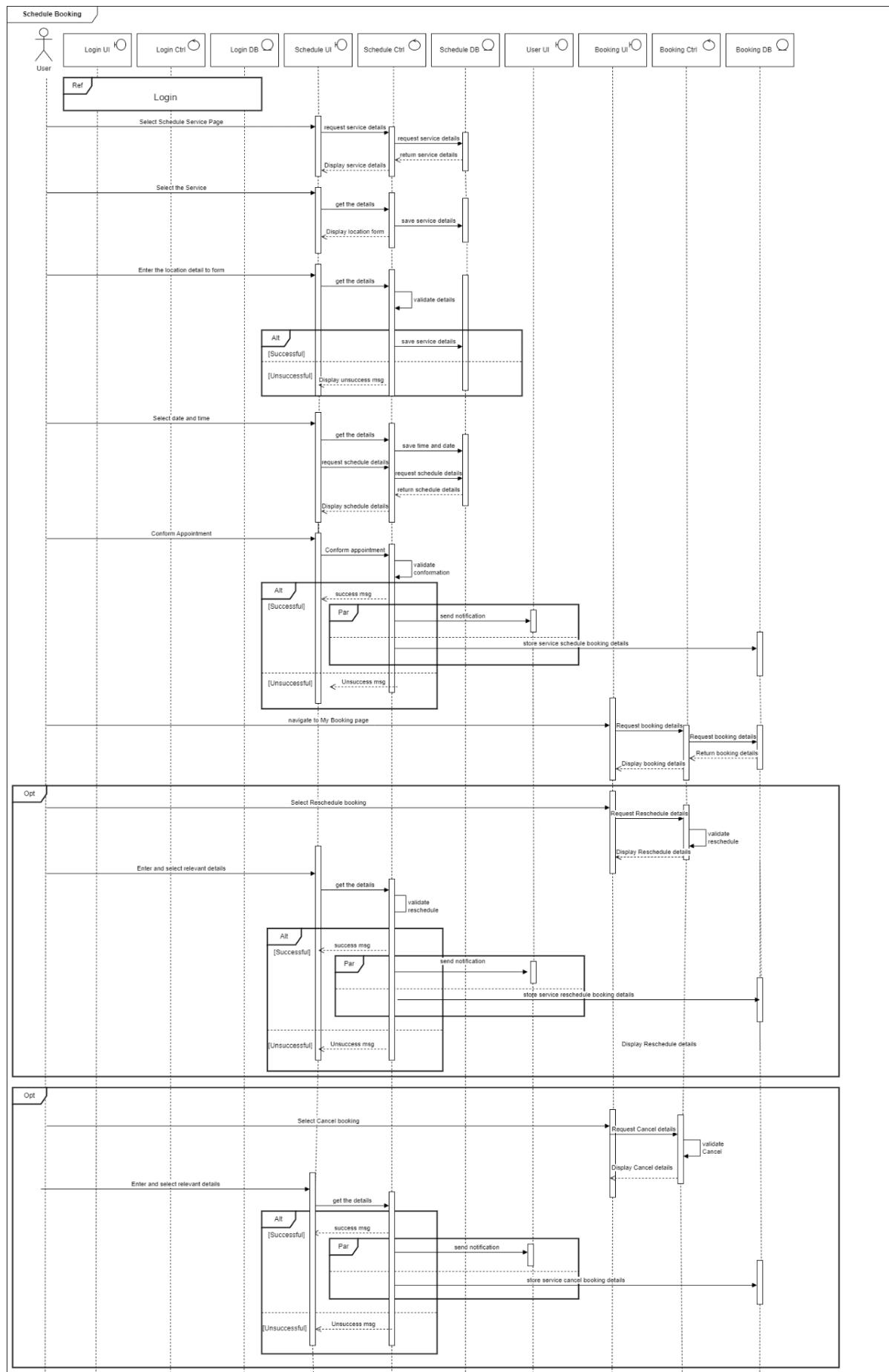
## Career management

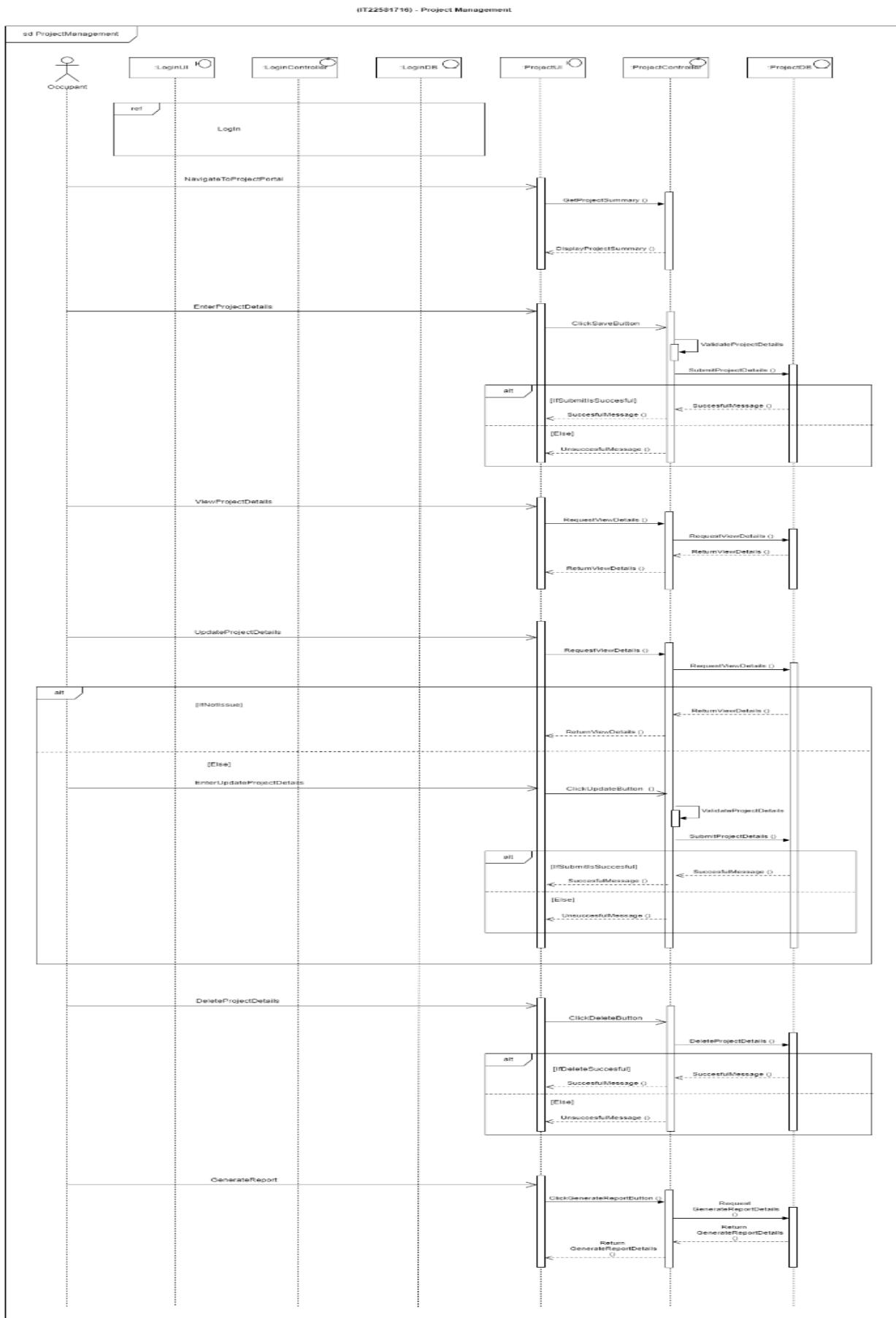


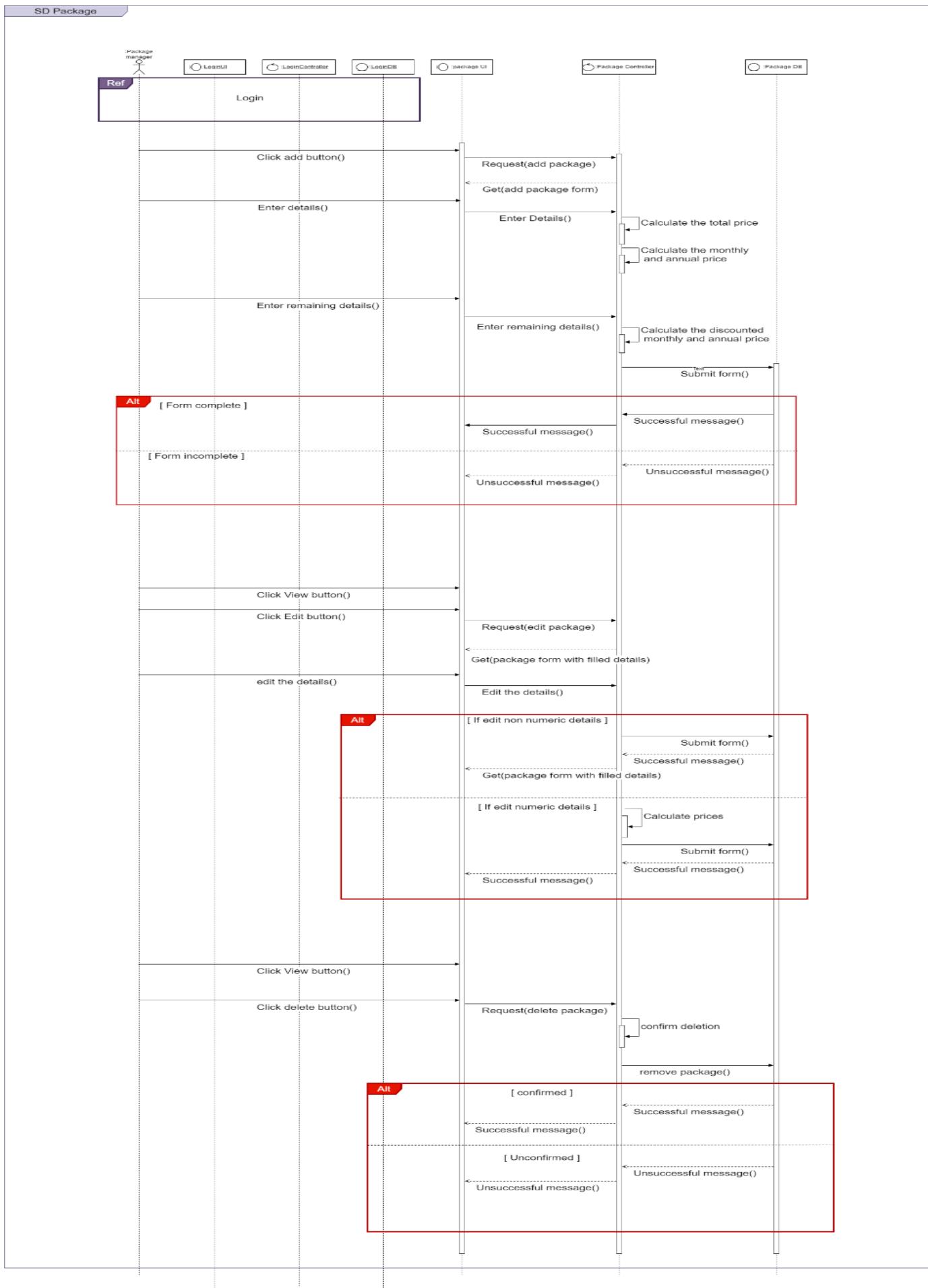




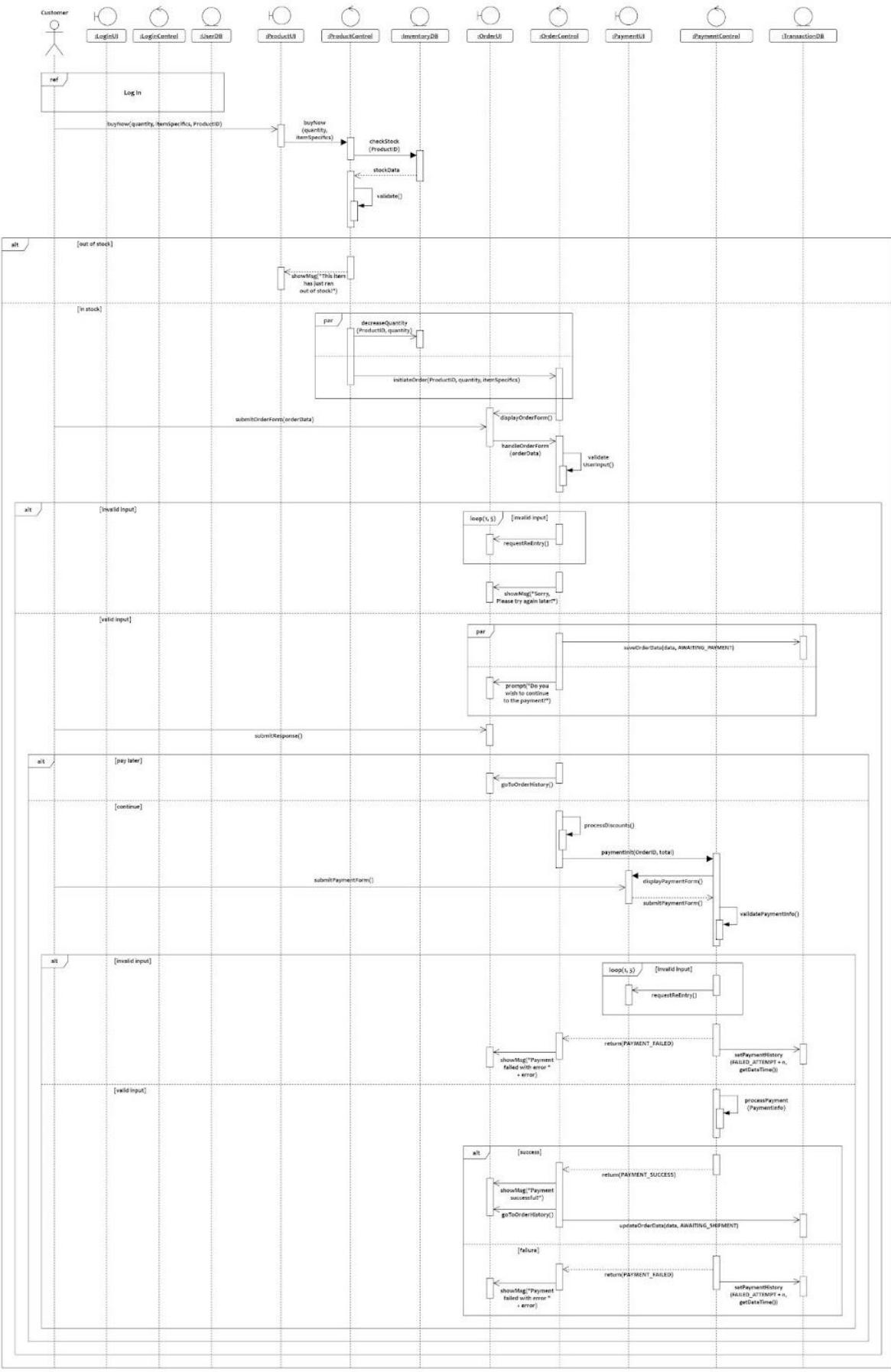






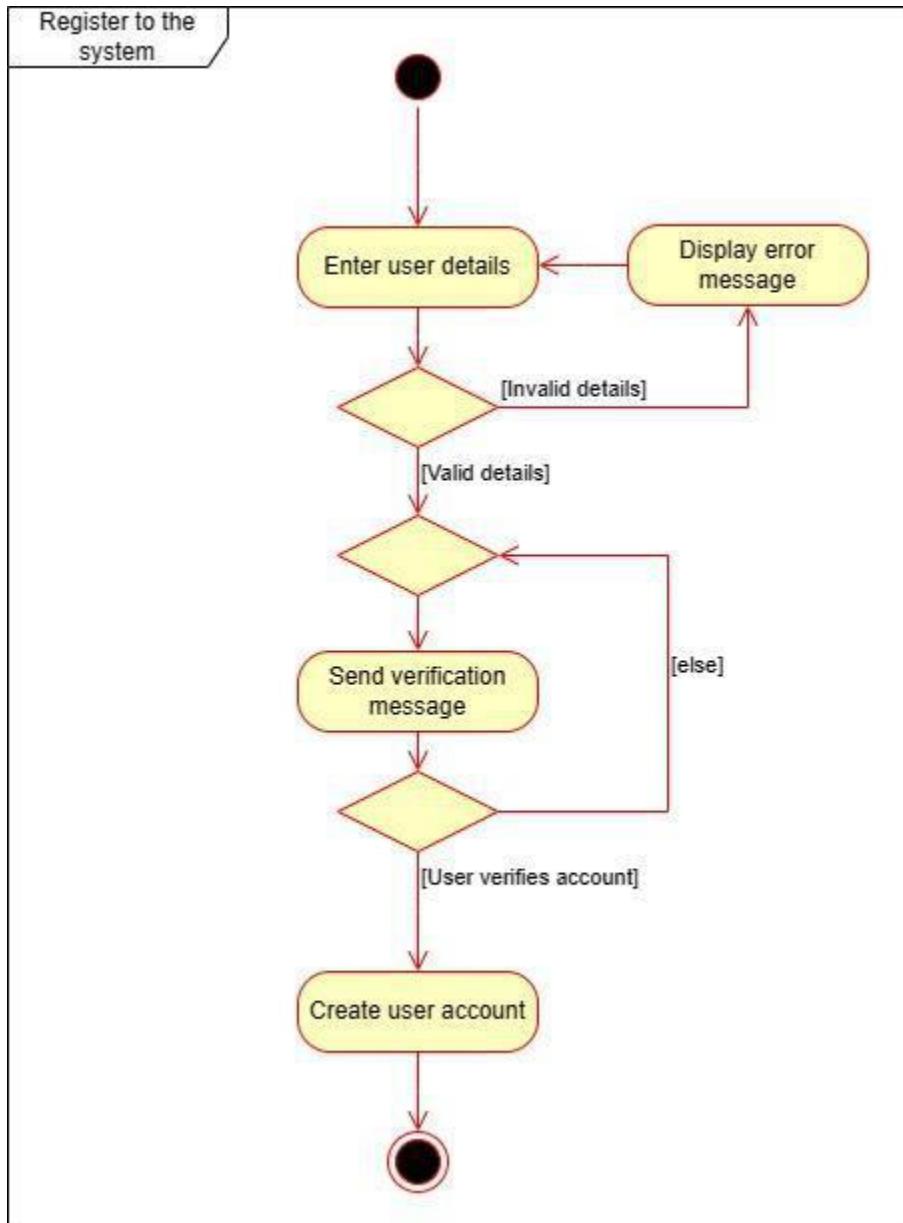


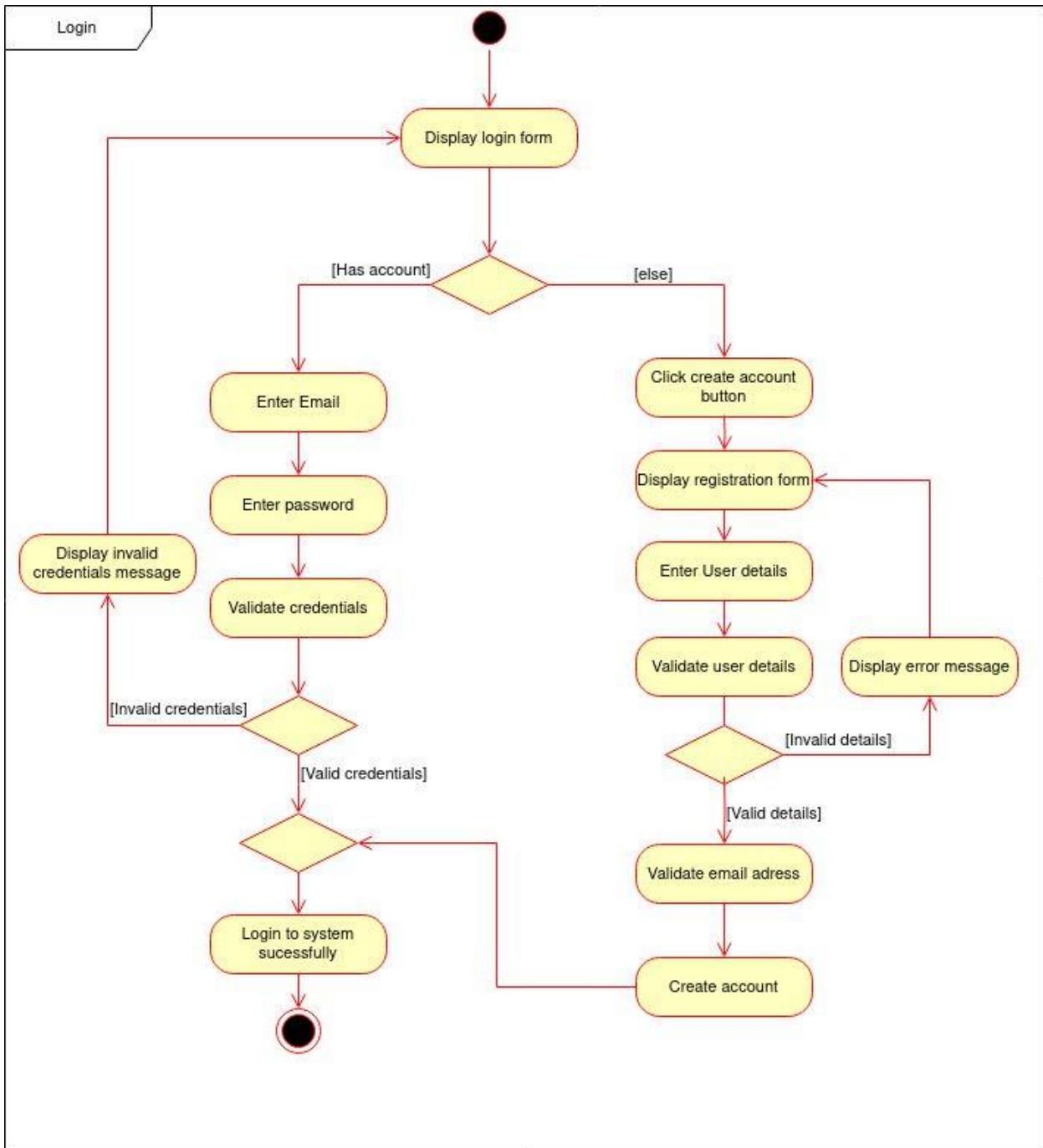
## sd Customer Place Order



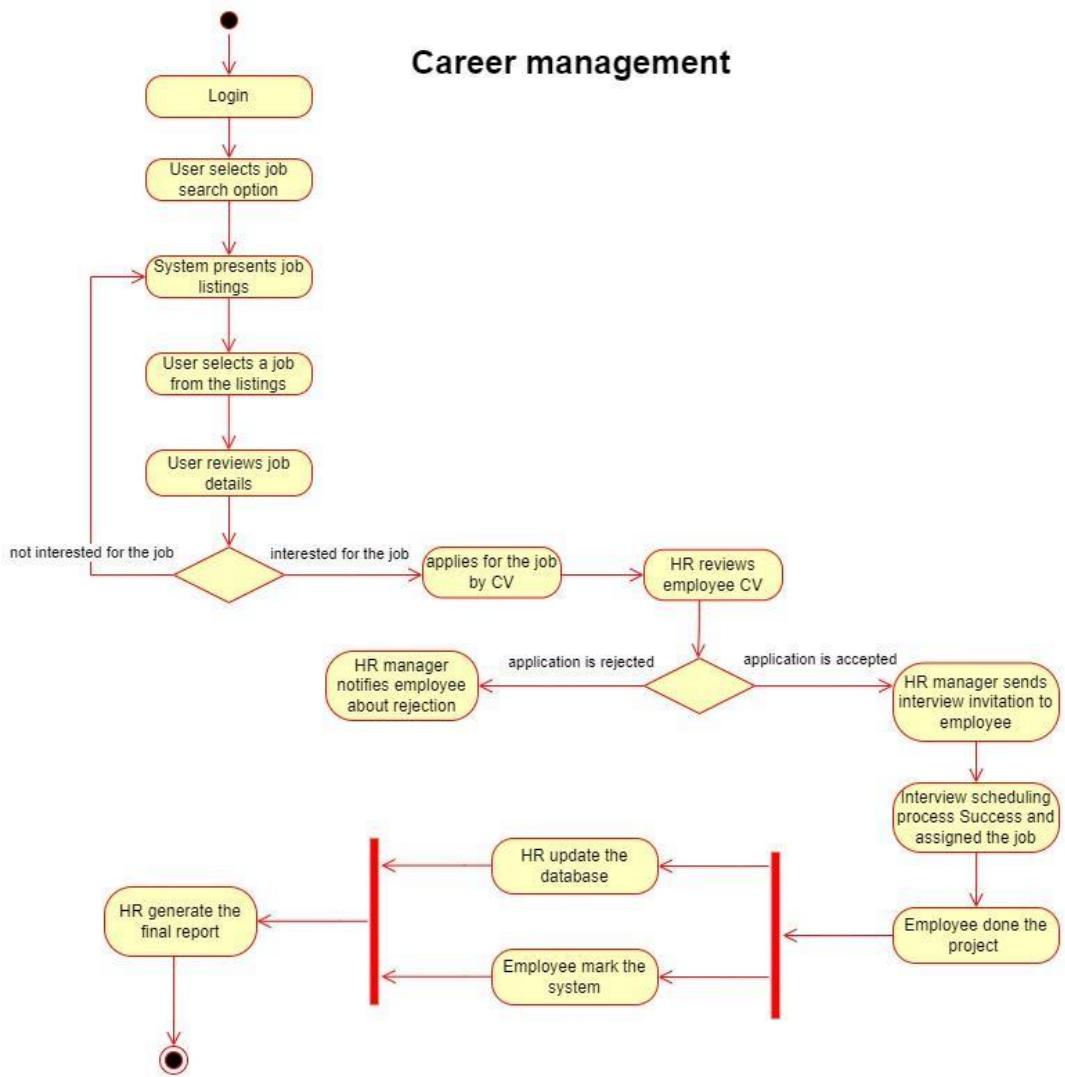
# Activity Diagram

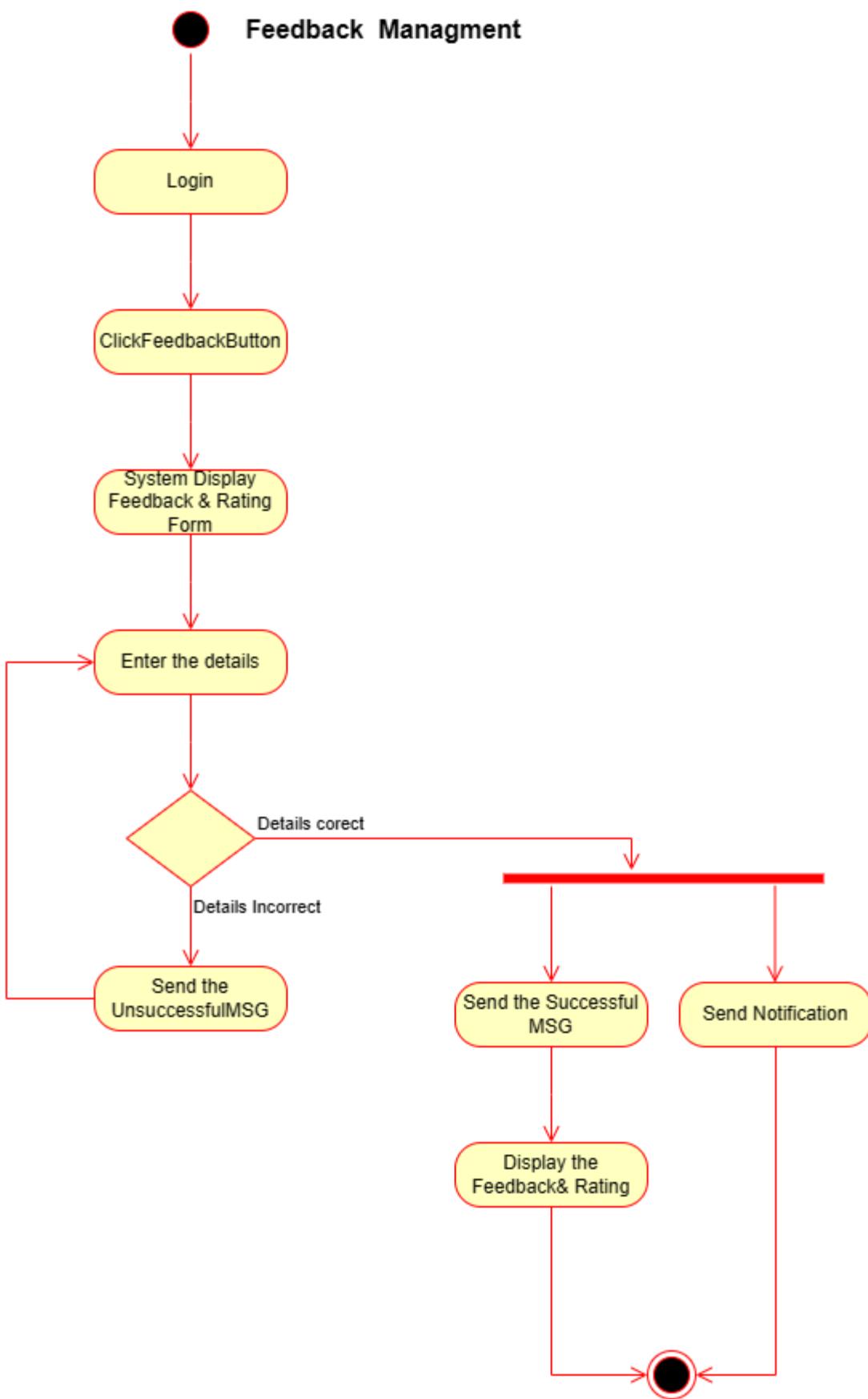
User Management



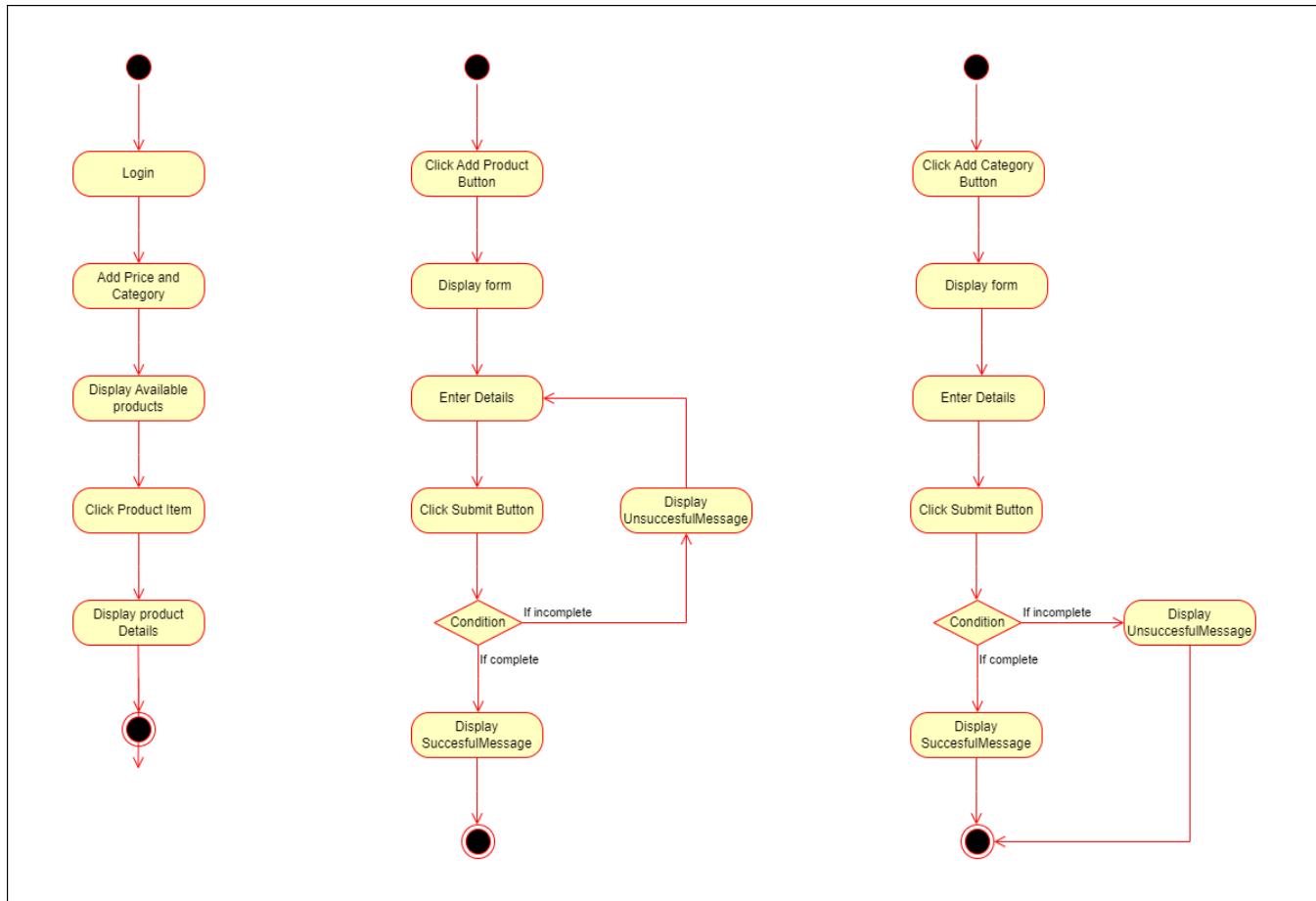


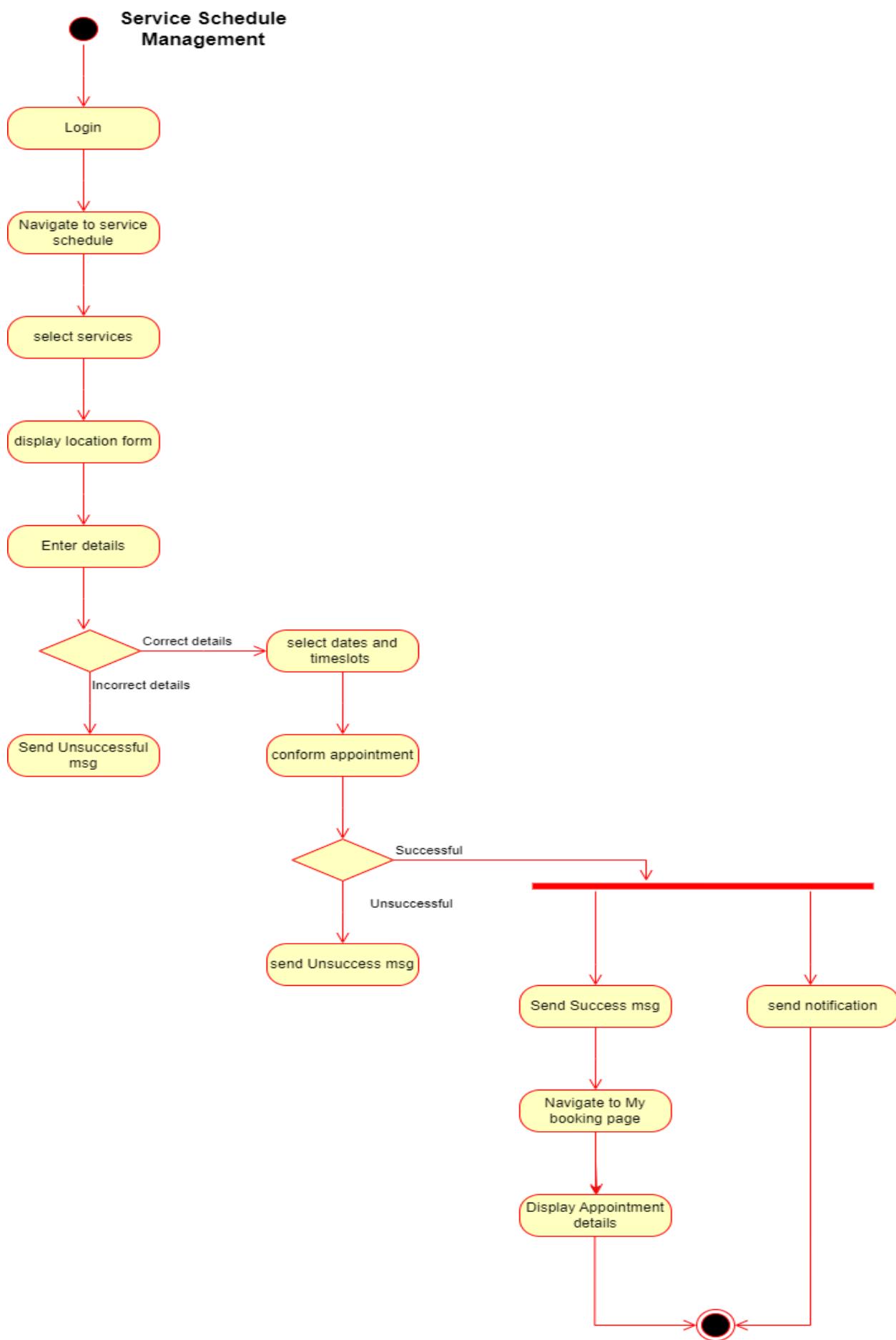
## Career management



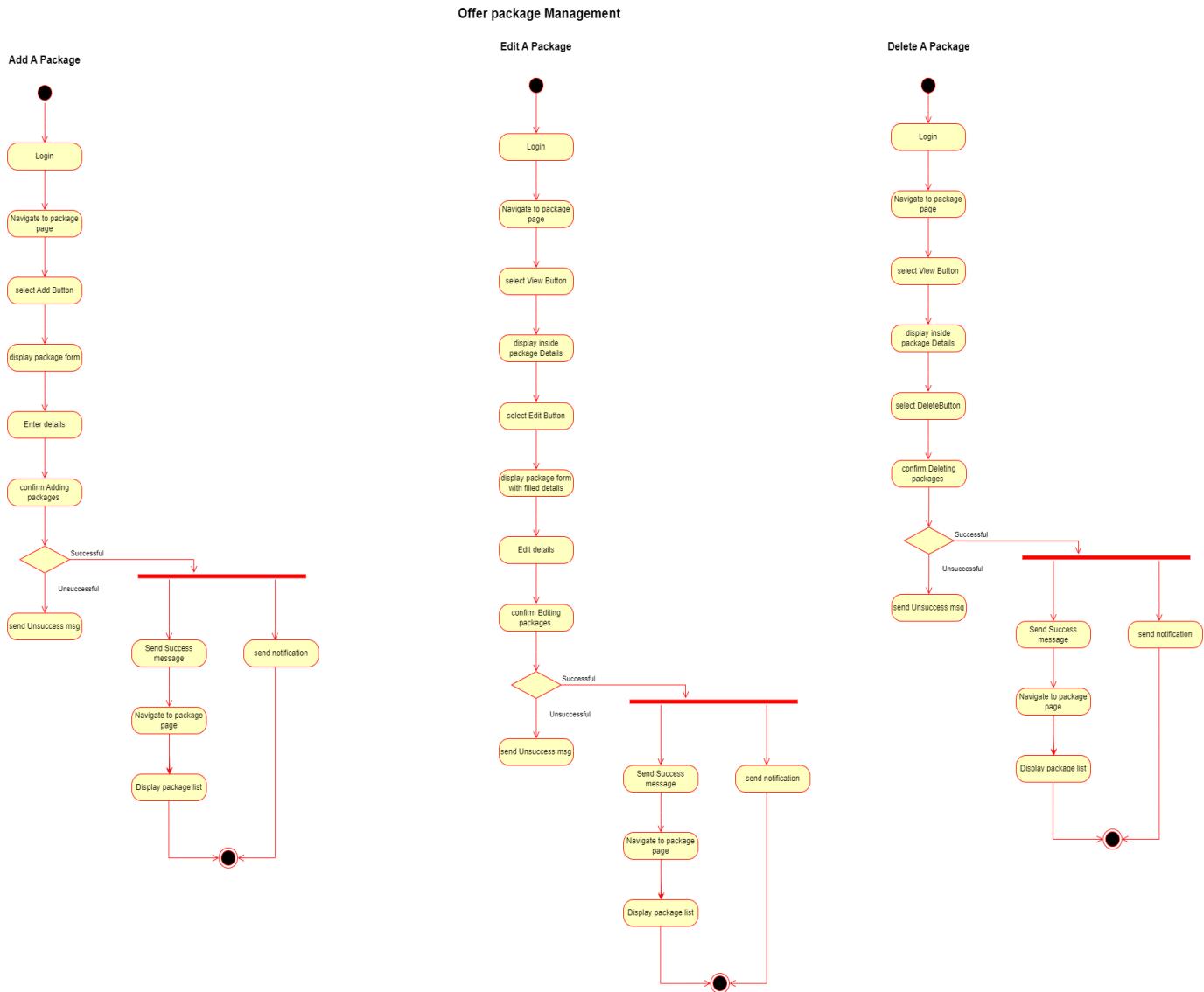


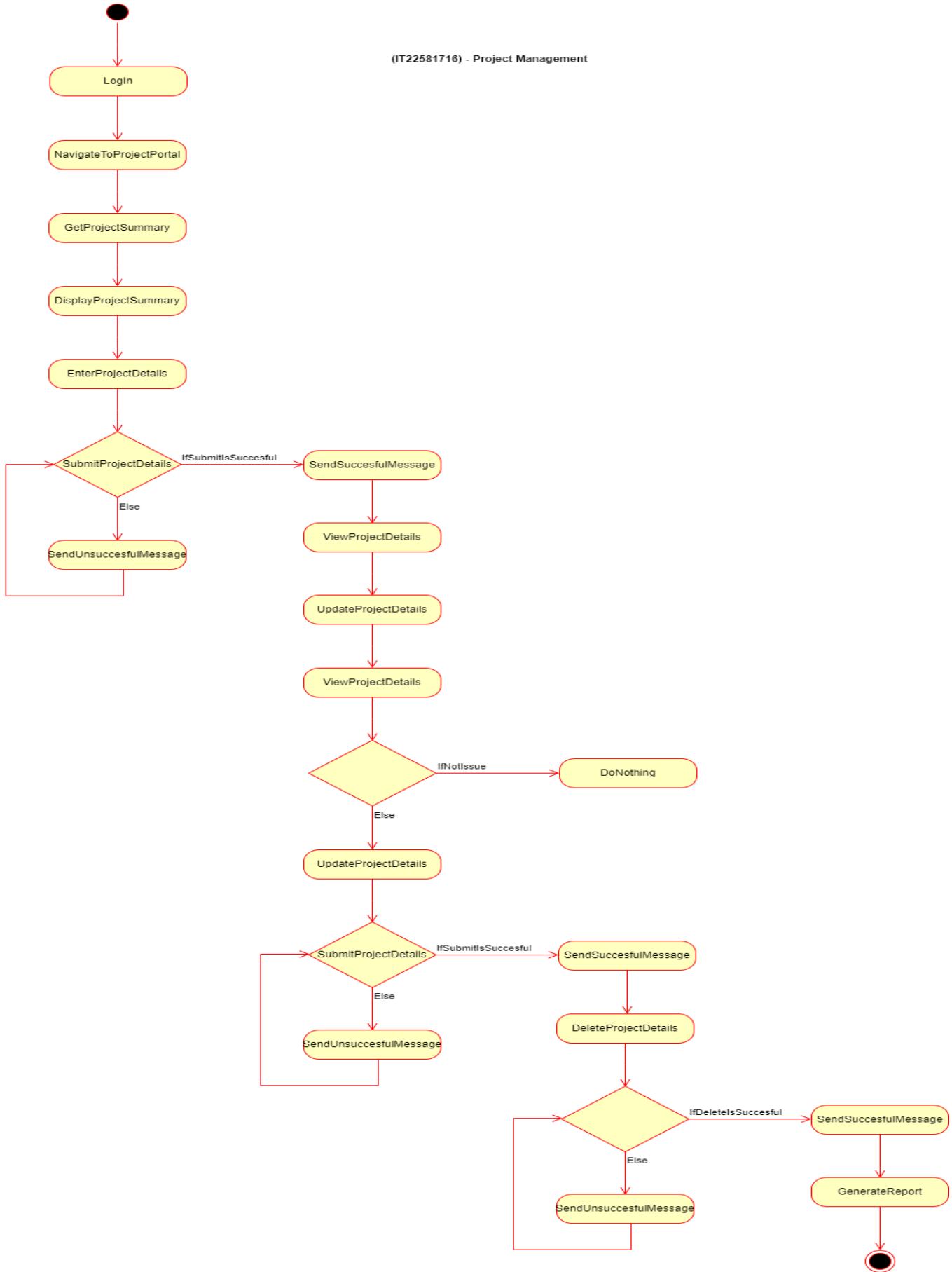
## Inventory management



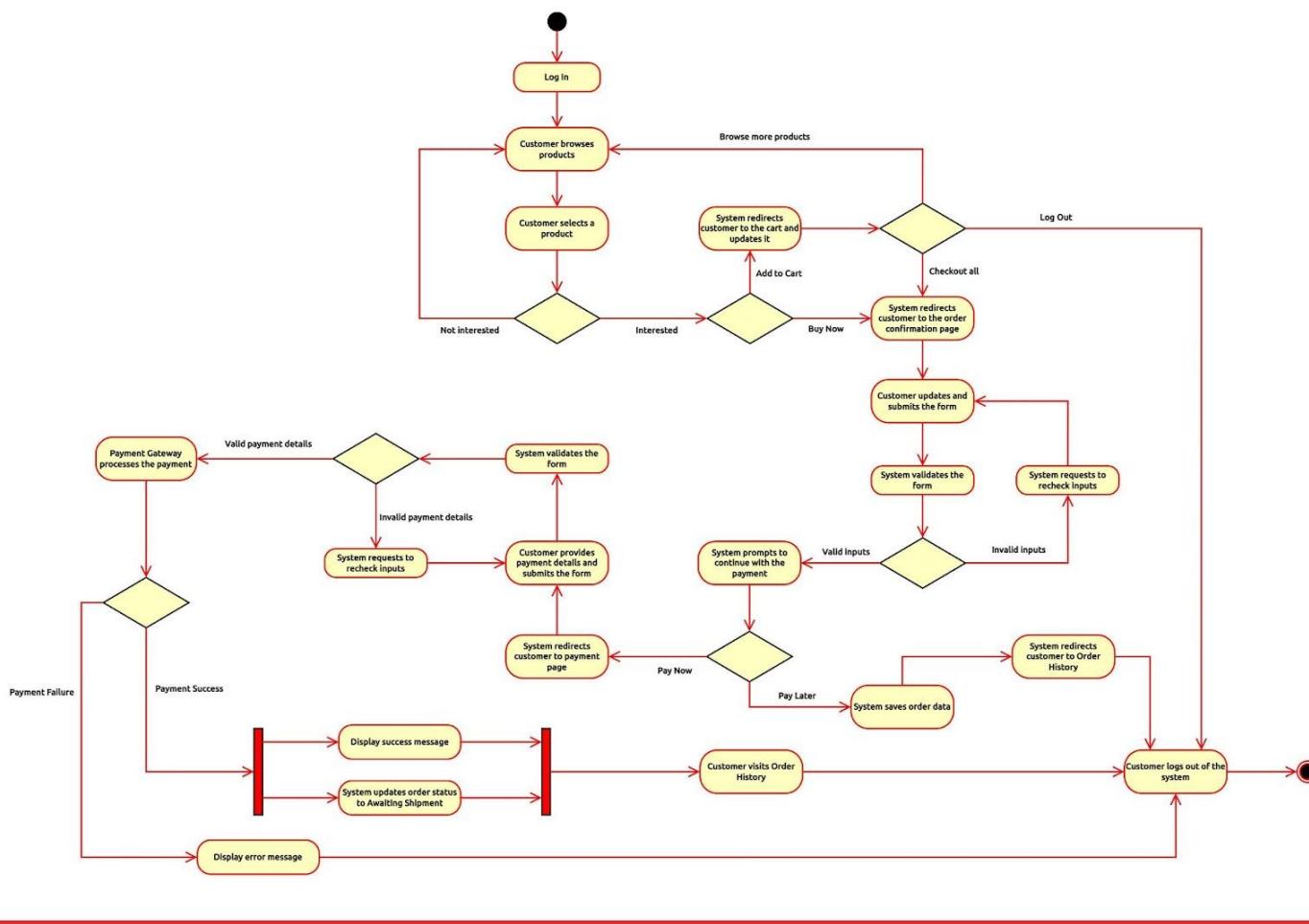


## Offer Package Management



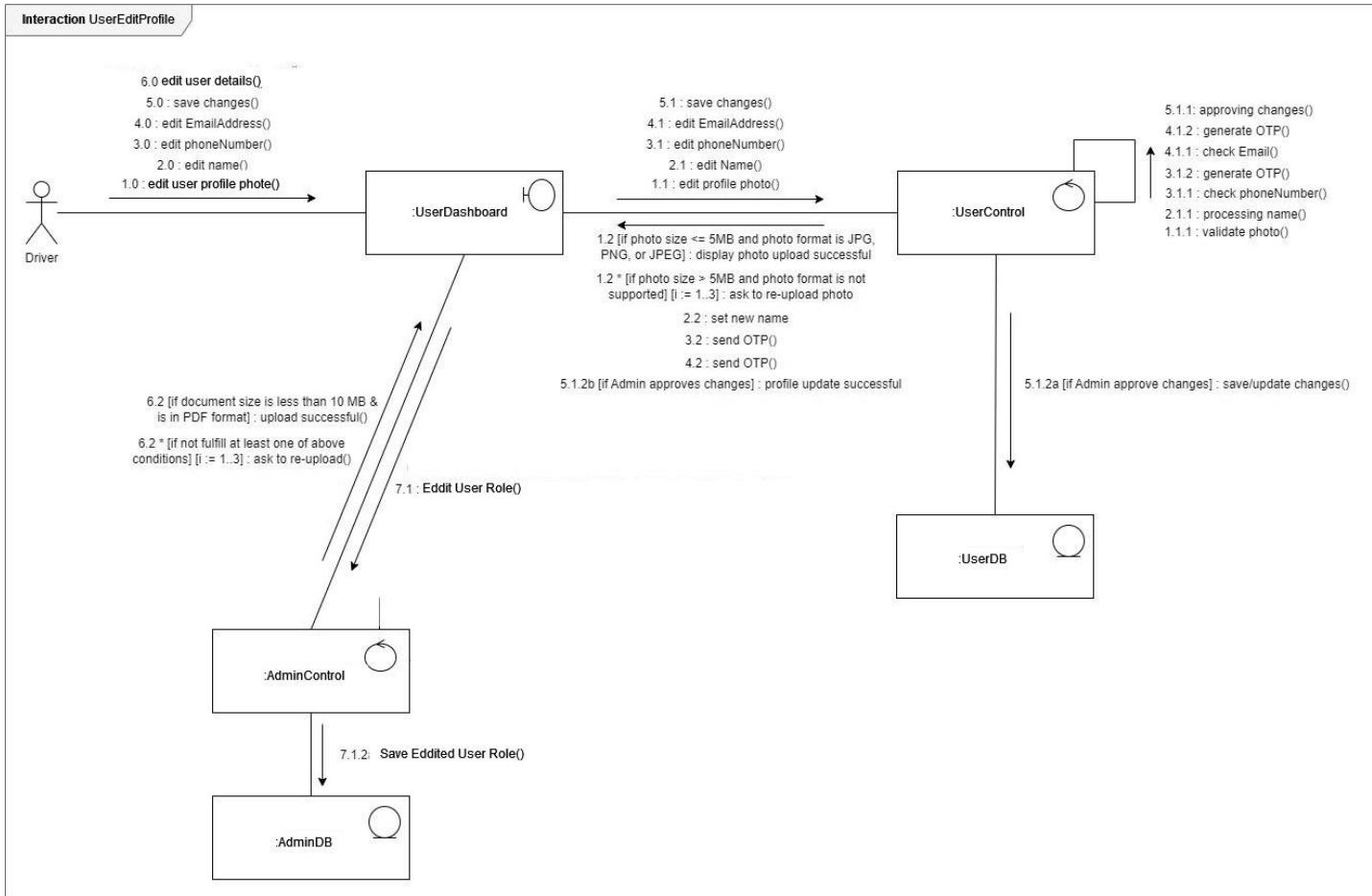


## Order Management

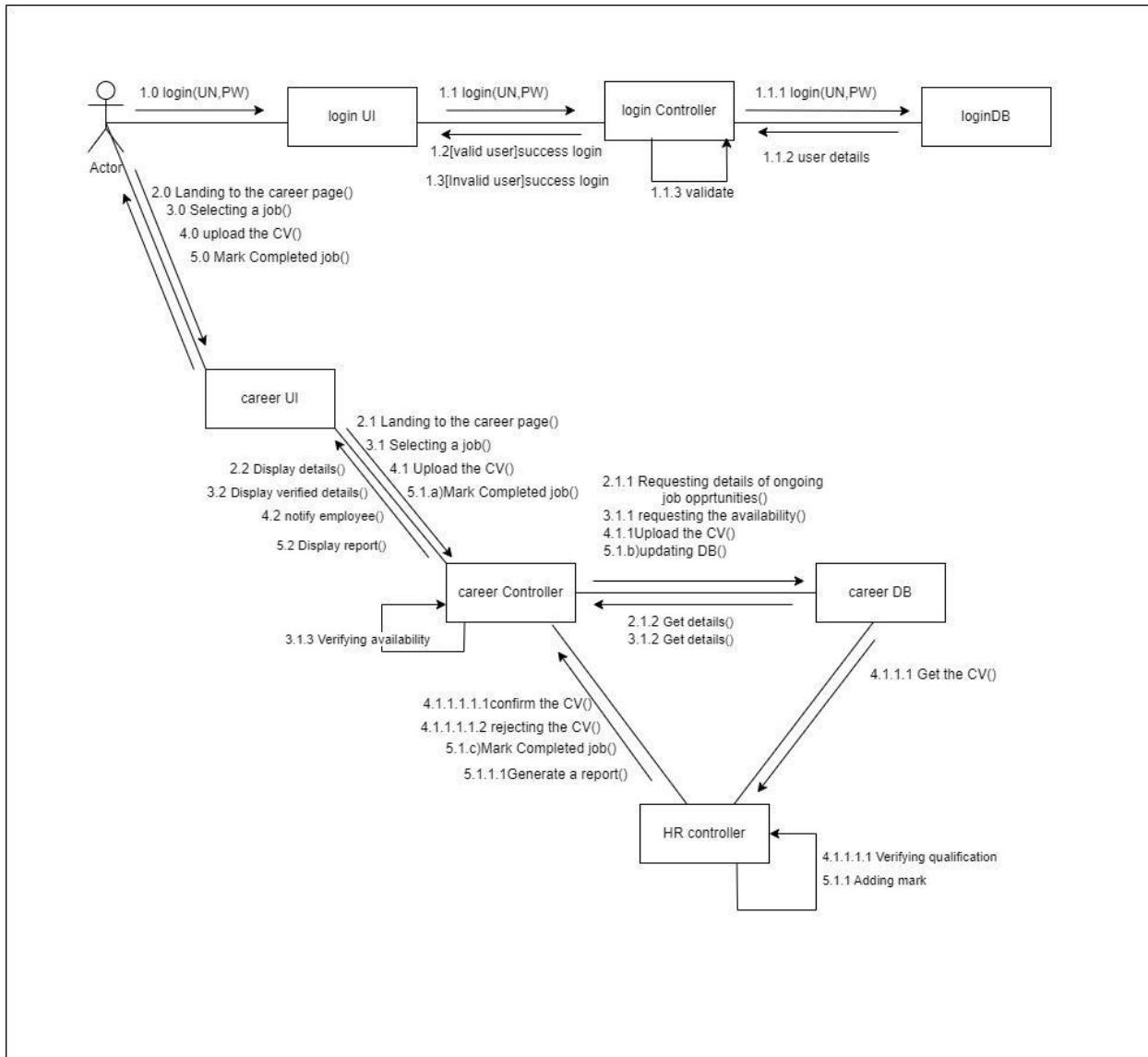


# Communication Diagram

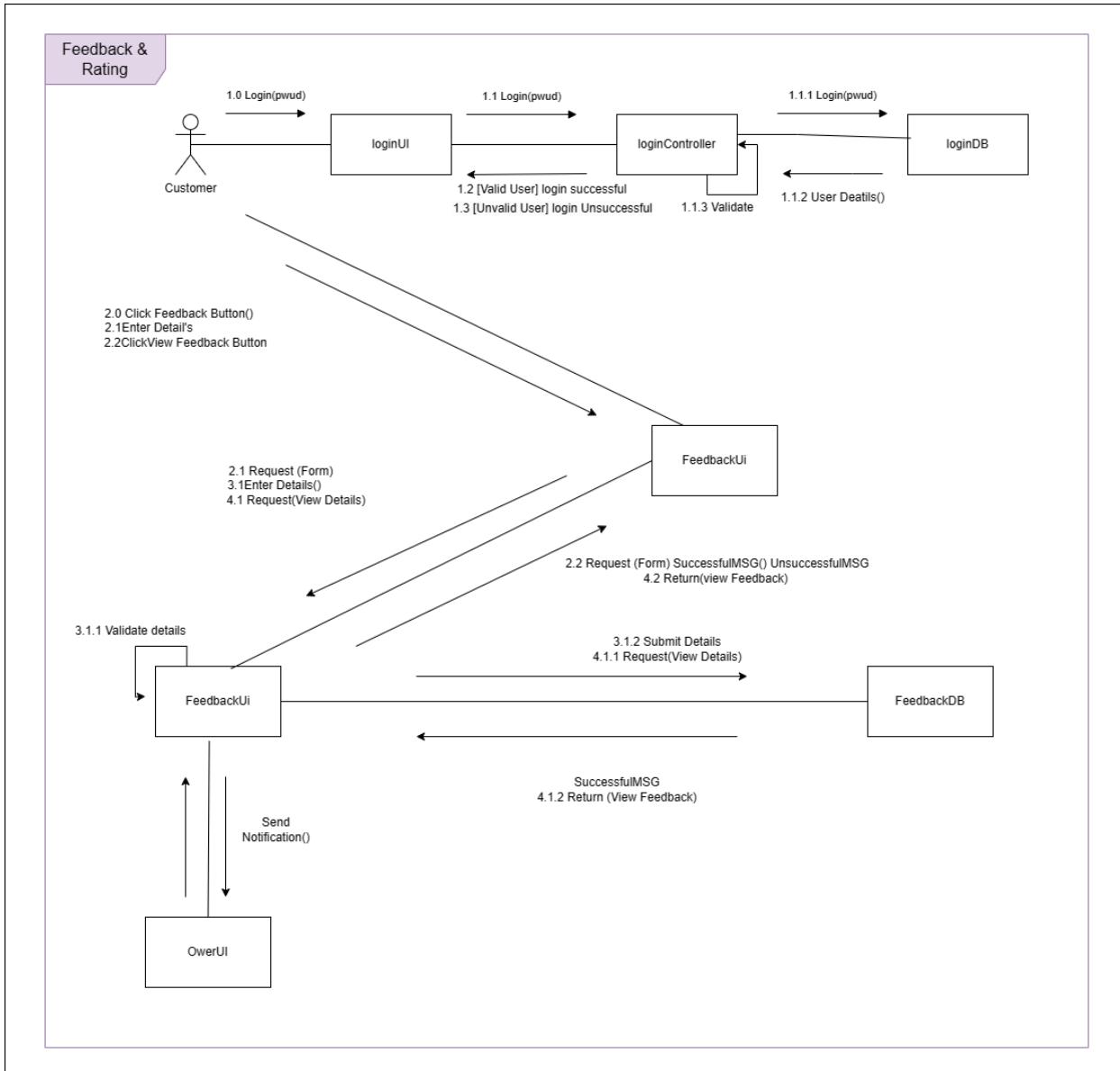
## User Management



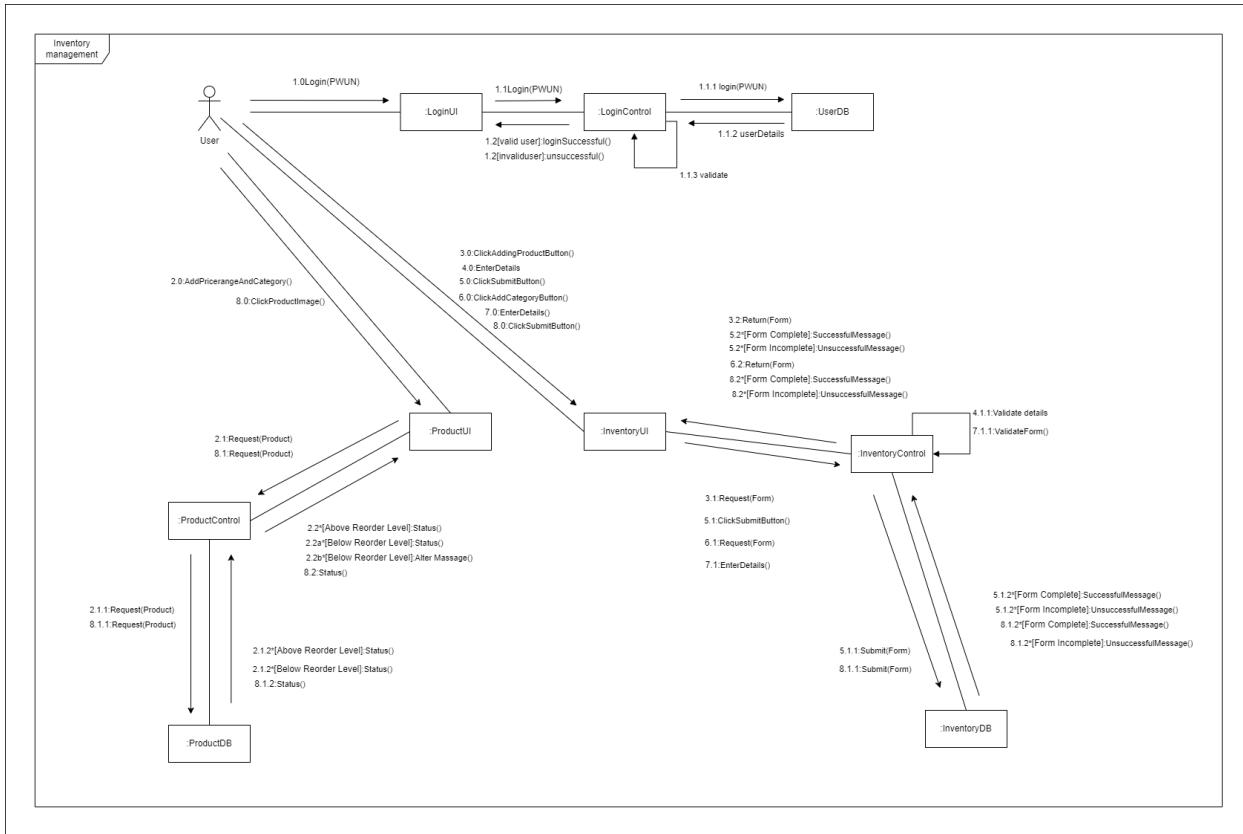
## Career Management



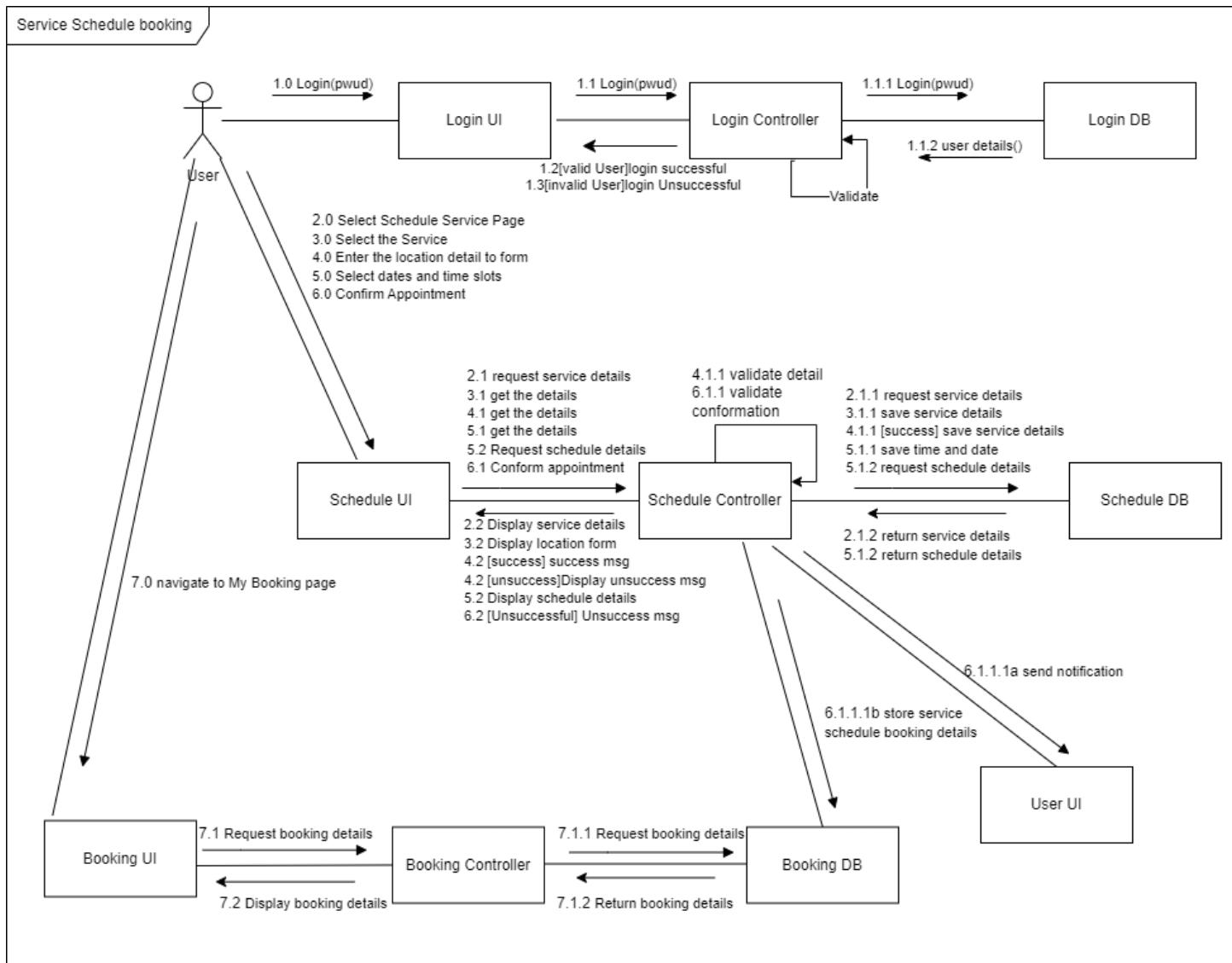
## Feedback Management



## Inventory management

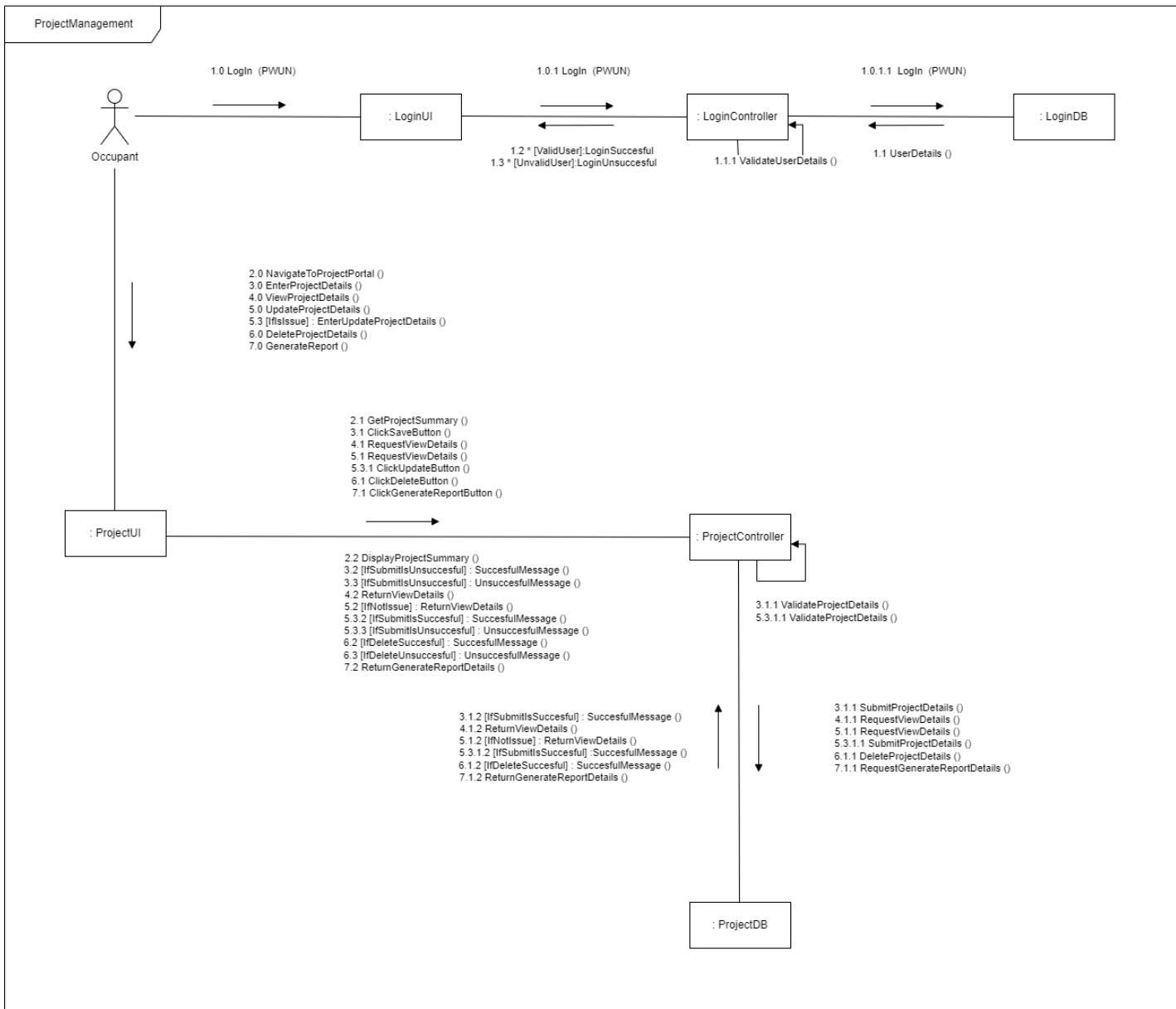


## Schedule Management

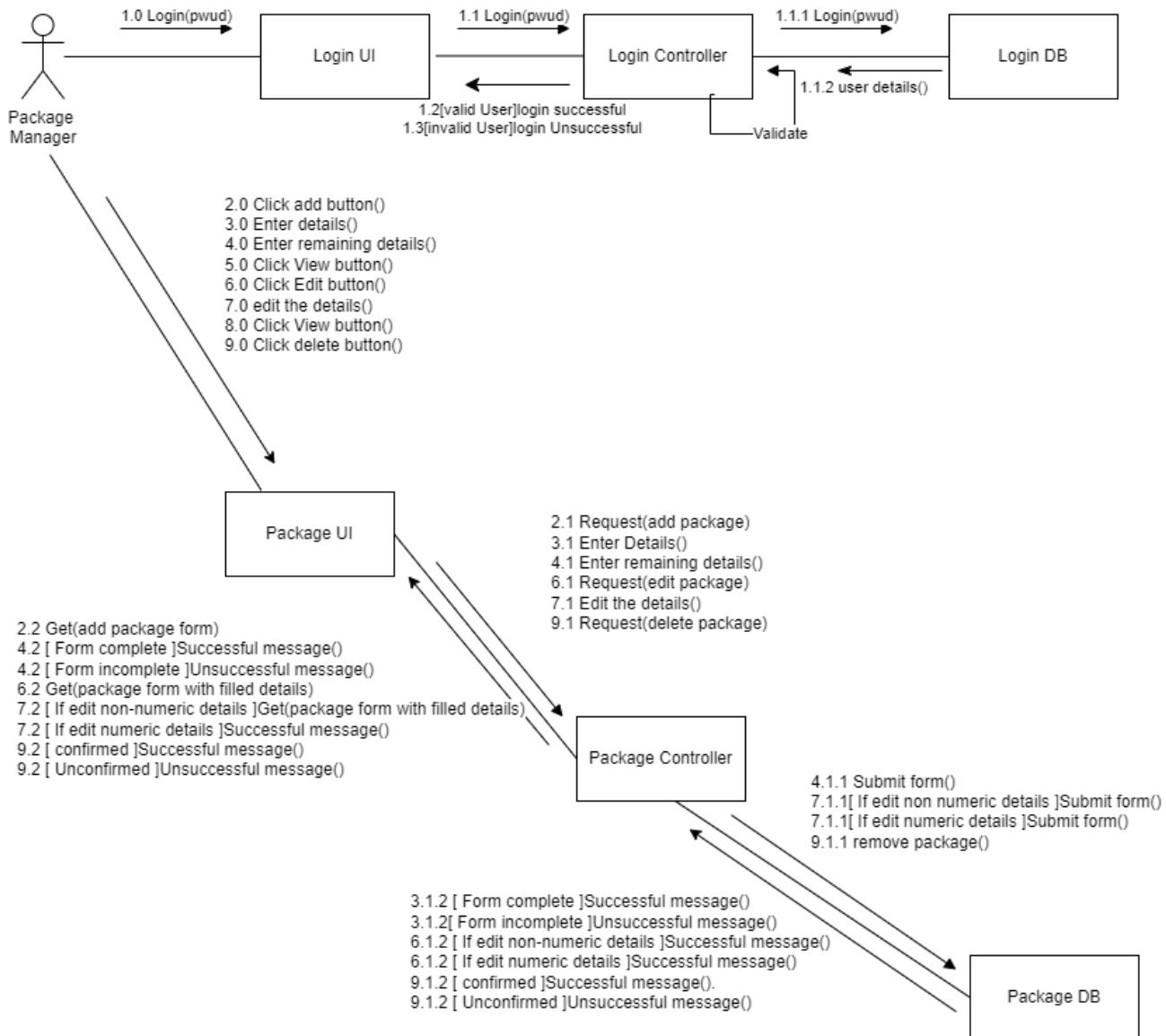


# Project Management

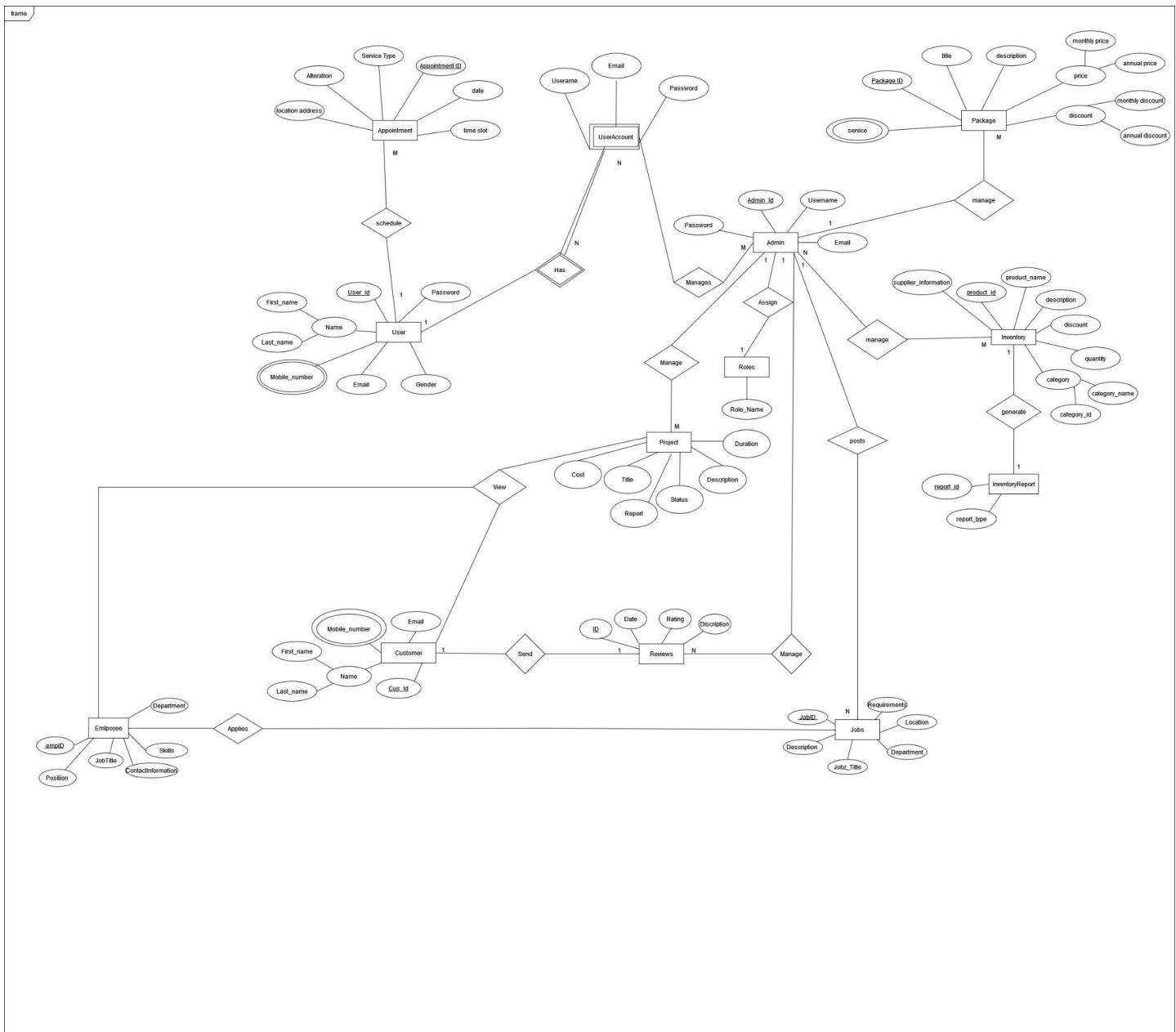
(IT22581716) - Project Management



## Package Management



# ER Diagram



## Contribution

Student ID	Name	Function	Remarks
Jayasinghe J.A.D.T.S	IT22028464	User Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
Wimalarathna B.P.K	IT22059604	Career Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
Gimsara W.T.G	IT22898098	Feedback Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
Galappaththi A.G.R.S	IT22345578	Inventory Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
P.R.Reid	IT22575944	Service Schedule Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
Dayarathne R.D.T.N	IT22578396	Package Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
Perera M.M.D.	IT22581716	Project Management	GUI Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design
Madhubhashana M D H P	IT22322876	Order Management	Class Diagram Sequence Diagram Activity Diagram Communication Diagram Database Design