

Sri Lanka Institute of Information Technology
Information Technology Project (IT2080)

Malabe Group 4.1

Group No: ITP24J_B04_07



Surfing School Management System

Submitted by:

Question 1

- **Lesson management**

In the context of the concept of the online surfing school management system lesson management function is responsible for the organization of the surf lessons' delivery by having major modules including: lesson schedule, instructor, enrollment, curriculum, and progress tracking modules. It guarantees that instructors are well-associated with lessons and students are enrolled and informed accordingly while conducting lessons with the right material is employed. It also manages student progress, record changes, report production, and student instructor and staff communications all in a seamless educational process.

- **Equipment maintenance**

In the equipment maintenance function of the surfing school management system, the major components include the Equipment Inventory, Maintenance Scheduler, Instructor Interface, Maintenance Team Interface, and Notification System. The Equipment Inventory manages all the details about the surfboards and other gear, including their condition, usage history, and current status. The Maintenance Scheduler is responsible for tracking maintenance intervals, scheduling regular checkups, and flagging equipment that requires immediate attention.

Instructors interact with the system through the Instructor Interface, where they can report equipment issues after lessons or request specific gear maintenance. The Maintenance Team Interface allows the maintenance staff to access the list of equipment needing repair, update the maintenance status, and log details of the work performed. Finally, the Notification System keeps everyone informed, sending alerts to the maintenance team when an issue is reported or when scheduled maintenance is due and notifying instructors when equipment is ready for use again. These components work together to ensure the equipment is always in optimal condition, enhancing the safety and satisfaction of the surfing school's students.

- **Supplier management**

In the supplier management function of the surfing school management system, the major components include the **Supplier Database**, **Supplier Evaluation Module**, **Order Management System**, **Inventory Management System**, and **Communication Interface**. The **Supplier Database** stores essential information about all suppliers, such as contact details, product offerings, and transaction history. The **Supplier Evaluation Module** tracks the performance of suppliers by analyzing metrics like delivery times, product quality, and pricing, helping the school make informed decisions about ongoing relationships.

The **Order Management System** handles the placement and tracking of orders for surfboards, wetsuits, and other equipment, ensuring that the best-rated suppliers are prioritized. This system works closely with the **Inventory Management System**, which monitors stock levels and prompts reorders when supplies are low. The **Communication Interface** facilitates smooth interaction between the school and suppliers, enabling negotiation, order confirmations, and resolution of any issues.

These components work together to maintain strong, efficient supplier relationships, ensuring the school is consistently supplied with high-quality equipment, which is critical for delivering a great experience to students.

- **Staff Handling**

In the staff handling function of the surfing school management system, the major components include the Staff Database, Scheduling System, Attendance Tracker, Instructor Interface, Admin Interface, and Notification System. The Staff Database stores comprehensive information about all staff members, including their roles, qualifications, availability, and contact details. The Scheduling System manages the assignment of instructors to lessons, ensuring that classes are adequately staffed based on the instructors' availability and expertise.

The Attendance Tracker monitors staff attendance, logging their presence during scheduled lessons and other work activities. Instructors interact with the system through the Instructor Interface, where they can view their schedules, update

availability, and request time off. The Admin Interface is used by the administrative staff to manage overall staffing needs, approve time-off requests, and adjust schedules as necessary.

The Notification System plays a crucial role in keeping everyone informed, sending reminders to instructors about their upcoming classes, alerting administrators when staff availability changes, and notifying relevant parties when schedules are updated. These components work together to ensure that the school is adequately staffed at all times, supporting smooth operation and optimal lesson delivery.

- **Registration**

In the registration function of the surfing school management system, the major components include the **User Interface**, **Registration Form**, **Database Management System**, **Email Verification System**, **Payment Gateway**, and **Notification System**. The **User Interface** provides prospective students with a user-friendly platform where they can access the registration process.

The **Registration Form** collects essential information from the users, such as personal details, contact information, and preferred lesson packages. Once the form is submitted, the data is securely stored in the **Database Management System**, which organizes and manages student information for future reference and administrative purposes.

The **Email Verification System** is triggered after the registration form is submitted, sending a verification link to the user's email address to confirm their identity and validate the registration. If the registration requires payment, the **Payment Gateway** is integrated into the process, allowing users to securely pay for their selected lesson packages using various payment methods.

Finally, the **Notification System** sends confirmation emails or messages to users after successful registration and payment, including details about their registration, payment receipt, and any further steps they need to take before starting their lessons. These components work together to ensure a smooth and secure registration process, making it easy for students to join the surfing school.

- **Sales & Rental**

In the sales and rental function of the surfing school management system, the major components include the **Product Catalog, Sales & Rental Management System, Inventory Management, Customer Interface, Payment Gateway, and Notification System**. The **Product Catalog** showcases the available surfboards, wetsuits, and other equipment for sale or rent, including details like pricing, availability, and product specifications.

The **Sales & Rental Management System** handles the processing of transactions, whether a customer is purchasing or renting equipment. This system interacts with **Inventory Management**, which keeps track of stock levels, ensuring that available items are accurately reflected in the product catalog and automatically updating stock levels after each transaction.

The **Customer Interface** is where users browse the product catalog, select items for purchase or rental, and complete their transactions. Integrated with this is the **Payment Gateway**, which securely processes payments and manages financial transactions.

Lastly, the **Notification System** ensures that customers receive updates on their orders or rentals, such as confirmation emails, payment receipts, and reminders for rental returns. These components work together to provide a seamless experience for customers looking to buy or rent equipment, ensuring smooth operations and customer satisfaction.

- **Payment**

In the payment function of the surfing school management system, the major components include the Payment Gateway, Order Management System, Customer Interface, Transaction Database, Billing System, and Notification System.

The Payment Gateway is responsible for securely processing payments, including credit card, debit card, and other electronic transactions. It interacts with the Order Management System, which tracks the details of purchases, rentals, or bookings made by customers. The Customer Interface allows users to initiate payments by selecting their preferred payment method during checkout.

Once a payment is processed, the Transaction Database records all transaction details, including payment confirmation, amounts, and customer information, ensuring accurate record-keeping for future reference. The Billing System generates invoices or receipts based on completed transactions and sends them to the customer.

The Notification System plays a crucial role in keeping customers informed by sending them payment confirmations, invoices, and alerts for any payment-related issues. These components work together to ensure a seamless and secure payment process, enhancing the overall user experience and maintaining financial accuracy within the surfing school management system.

- **Event planning**

In the event planning function of the surfing school management system, the major components include the **Event Management System, Instructor Interface, Student Interface, Calendar and Scheduling System, Registration and Booking System, and Notification System**. The **Event Management System** is responsible for organizing and

managing various surfing events, such as competitions, workshops, and social gatherings. This component allows administrators to create events, set dates, and define participation criteria.

The **Instructor Interface** enables instructors to view upcoming events, register as participants or coaches, and provide input on event planning. Instructors can also collaborate with the event management system to plan lessons or activities that align with the event's goals.

The **Student Interface** allows students to browse upcoming events, view event details, and register for participation. The **Calendar and Scheduling System** integrates with both instructor and student interfaces, ensuring that all events are scheduled effectively without conflicts, and it helps in organizing the timeline of activities.

The **Registration and Booking System** manages the sign-up process for events, handling tasks such as collecting participant information, processing payments if required, and confirming registrations. Finally, the **Notification System** keeps all participants informed by sending reminders, updates, and important information about the events, ensuring everyone is well-prepared.

These components work together to facilitate smooth event planning and execution, ensuring that both instructors and students are engaged and informed, leading to successful and enjoyable surfing events.

Question 02

- **Documents:** In the context of each collection, every entity will be represented as a document.

Key-value pairs, in which the keys stand for attributes and the values for data, will be found in documents.

References and embedding can be used to depict relationships between entities.

- **Data Organization:** Within a MongoDB database, data is arranged into collections.
To facilitate effective searching and retrieval, documents in collections are indexed.

Data is either denormalized or normalized in accordance with the application's particular requirements.

- **Data retrieve and Manipulation:** MongoDB queries and operation are used to query and manipulate information.
It is important to note that documents within collections go through CRUD activities which are, creation, reading, updating, and deletion.

MongoDB is schema-free and hence changing and adapting the data is quite easy.

Table name :"Lessonpackages"

Fields:[{PackageID:stirng},{PackageName:Varchar},{Descriptio:Text},{Price:Float},{Duration:Varchar},{SkillLevel:Varchar},{MaxStudents:int}]

Table name :"Package&lessonBooking"

Fields:[{BookingID:stirng},{StudentID:string},{PackageID:string},{AvailableDays:char},{MobileNo:char},{Email address:Varchar},{Name:string}]

Question03

- **Scalability** : Scalability means the capacity of the system, of the work input and or the potential for the system to grow bigger to incorporate the growing demand.
- **Performance:** Performance requirements ensure that the system operates efficiently, providing a smooth and responsive user experience.
- **Reliability:** Reliability ensures that the system is consistently available and performs as expected without unexpected downtimes.
- **Usability:** Usability ensures that the system is easy to use and meets the needs of its users.
- **Interoperability:** Interoperability ensures that the system can integrate with other systems and platforms.
- **Portability** : Portability refers to the system's ability to run on various platforms and environments.

Question 04

Express.js (Node.js)

The backend framework used for creating and executing applications, controlling server-side logic, and responding to API requests is called Express.js (Node.js).

Requirements: Must provide a scalable environment with capabilities such as RESTful API development, middleware assistance, routing, error correction,

and smooth MongoDB database integration activities. To secure API endpoints, it should also allow JWT authentication.

React.js

The React.js Integration Point creates the application's front end and offers users interactive user interfaces to interact with and view data, including calendar events that are retrieved from the Google Calendar API.

A component-based architecture, state management (maybe with Redux or Context API), routing (with React Router), and responsive design for a range of devices are required. Asynchronous data fetching from the backend APIs and smooth integration with Tailwind CSS for style should also be supported.

Tailwind CSS

Integration Point: Front-end user interface stylesheeting classes are utility first based in the CSS tier.

Requirements: Has to be an extendable, functional CSS toolkit for designing modern, progressive, and responsive interfaces. It should enable customisation and theming and offer a vast number of utility classes for all elements and layout.

Question 05 IT22127778-Chavindee M.A.P

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Come and join with us to learn surfing





**Freedom is a flexible surf camp
Book surf lessons**

Welcome to Arugambay Surf-Deck Surfing School!

Since our establishment in 2015, we have been dedicated to nurturing the passion for surfing in the beautiful waters of Arugambay. Whether you're a beginner catching your first wave or an experienced surfer honing your skills, our school offers personalized lessons to suit every level. Explore our vibrant surfing community, book lessons with top instructors, and stay updated with the latest events and courses. We are committed to providing a safe, fun, and enriching environment for all our students.

Join us and ride the waves with confidence!

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The Best Surfing School In Sri Lanka

Our Surf Packages

Your surf lesson will be 1 hour and taught in your booking group only, with 5 students to 1 instructor. Our instructors are ISA qualified.

Surf Lesson packages

For Beginner and Intermediate Surfers

- 1 Lesson 15\$
- 3 Surf Lesson 43\$(USD)
- 5 Surf Lessons 70\$(USD)
- 7 Surf Lessons 100\$(USD)
- 10 Surf Lessons 140\$(USD)

Choose to take one or two surf lessons a day

Prices starting 15\$ lesson

[Book Now](#)

Surf Course

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- 2 Surf Lessons a day
- Flexible lesson time
- One to one teaching
- Unlimited Surfboard hire
- Access to our experienced Surf Coaches

Prices starting from 45USD a day

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Surf Guiding

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Transport and surf board included

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Beginners

Learn to surf in Arugambay

we offer surf lessons or surf courses

- Book a package of Surf Lessons or a Surf Course.
- Surf Lessons are 1 hour long.
- Surf Lessons taught in your booking group, with 2 students to 1 instructor.
- Choose to take 1 or 2 lessons a day.
- Surf Lesson timings are flexible and changeable each day to suit your holiday needs.

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- Transport.
- Surfboard hire.
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Join with us &
Book your lesson now

Email:

Package

First Name

Last Name

Phone

Available days

[Submit Details](#)

[Submit & Do payment](#)



New Package Creation

Package Name:

Package Details:

Package Price:

Create

Cancel

Surf Lesson packages

- 1 Lesson 15\$
- 3 Surf Lesson 43\$(USD)
- 5 Surf Lessons 70\$(USD)
- 7 Surf Lessons 100\$(USD)
- 10 Surf Lessons 140\$(USD)

Delete

Surf Course

- 2 Surf Lessons a day
- Flexible lesson time
- One to one teaching
- Unlimited Surfboard hire
- Access to our experienced Surf Coaches

Delete

Surf Guiding

Surf different spots around Arugambay with guidance from our trained instructors

- Half day Guiding
- Full day Guiding

Delete

Add new packages

IT22243980 - Wickramarachchi T T

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Event Dashboard



Wind surfing Events

Windsurfing is a water sport that combines surfing and sailing. It involves standing on a board with an attached sail, using wind power to glide across the water. The sport requires balance, agility, and control of both the board and sail.



Boat Surfing Events

Boat surfing, also known as wakesurfing, is a water sport where a rider surfs the wake created by a moving boat. The rider stands on a board and generally starts by holding onto a rope to get into the waves, then lets go to ride the wave generated by the boat. Boat surfing combines elements of surfing and wakesurfing, offering a thrilling experience on calm waters.



Board Surfing Events

Board surfing is a water sport where a rider stands on a board and rides waves on a surfboard and rides waves towards the shore. Using balance and strength, the rider catches the wave, performing turns and maneuvers. It's a popular and iconic activity in surfing culture, celebrated for its connection to nature and the thrill of riding waves.



Special Events

There are award ceremonies, level up ceremonies, Beach parties, beach parties in the surfing school. They are organized to build the partnerships, leadership, Unity among the students.



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Wind Surfing

Windsurfing is an exciting water sport that blends surfing and sailing. It involves standing on a board with an attached sail, using the wind to move across the water. The sport requires balance, agility, and skill to control both the board and sail, making it popular in windy coastal areas and lakes.

For Beginners Rs5000

For Intermediates Rs 3500

Let's Go

For Experts Rs 2000



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Boat Surfing

Boat surfing, or wakesurfing, is a water sport where a rider surfs the wake of a moving boat, starting with a rope and then riding the wave without it. It blends surfing and wakeboarding for a fun experience on calm waters.

Event Prices

For Beginners Rs5000

[Let's Go](#)

For Intermediates Rs 3500

For Experts Rs 2000

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Board Surfing

Board surfing is a sport where a surfer rides ocean waves on a surfboard, using balance to navigate and perform maneuvers. It's a popular coastal activity known for its thrill and connection to nature.

Event Prices

For Beginners Rs5000

For Intermediates Rs 3500

For Experts Rs 2000

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Special Events

Award Ceremonies
Level up Ceremonies
Beach Parties
Annual Get togethers

Event Prices

Child	Rs 2500
Adults	Rs 4500

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Create & Manage events



Form

Event Name : [Edit](#)

Name : [Edit](#)

Age : [Edit](#)

Gender : [Edit](#)

Create **Delete**

Continue



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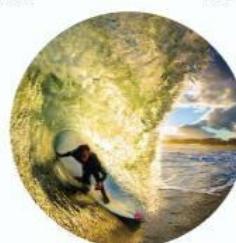
Payment Dashboard



Equipment Payment



Event Payment



Other Payment

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Payment

Payment Details

Card Type *

Card Number *

Expiration Month * Expiration Year *

Month Year

CVN *

This code is a three or four digit number printed on the back or front of credit cards.

Cancel

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Special Offers



10% OFF Surfing Packages **Continue**

GET 1 GET FREE Equipment

5% OFF Surfing Lessons **10% OFF** Intermediate

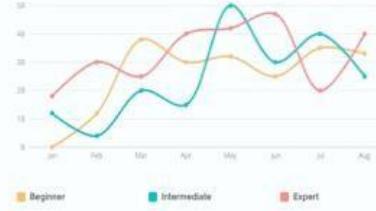
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Payment Reports




PAYMENT METHODS

Transaction Details

Date	Student Name	Package Name	Amount Paid	Payment Status	Transaction ID
19/03/24	K.T Samanweera	3 SurfLesson	438(USD)	Completed	#0150
28/03/24	T.S Abewickrama	1 SurfLesson	150(USD)	Completed	#0580
08/05/24	S.K Perera	7 SurfLesson	1000(USD)	Completed	#0090
17/06/24	L.H. Samanayaka	5 SurfLesson	700(USD)	Processing	#0520



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Payment Invoice

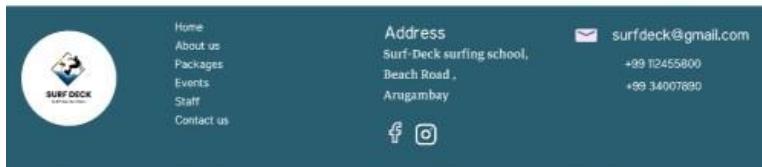
INVOICE #4890

08/05/2024



Invoice Details		
Services	Qty.	Payment
7 Surf lesson	1	100\$(USD)
<hr/>		
Total : 100\$		
<hr/>		
CGST (5%) : 5\$		
<hr/>		
SGST (5%) : 5\$		
<hr/>		
Grand Total : 105\$		

Back



Manage Invoices

Invoice number	Student name	Package / Equipment	Amount	Status	Action
#2450	K.T Samaraweera	3 surf Lesson	45\$	Paid	
#4890	S.K. Perera	7 surf Lesson	100\$	Paid	
#5230	I.H. Senanayaka	5 surf Lesson	70\$	Pending	

ADD

IT22083814-Chandrasena H P

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Manager Login

Email

Password

Login

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Request Form

Equipment Name: surfing board

Required Date: 11/01/2024

Maintenance Task:

Check for any dings, cracks, or damage

Item Quantity: 20

Available Fund: 20000

UPDATE

Address: Surf-Deck surfing school, Beach Road, Aragamerry

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Request Form

Equipment Name
Required Date
Maintenance Task

from quantity Available Fund

SUBMIT

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surf deck

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Facebook Instagram

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Equipment Management

New Request Report

Name	Required Date	Items	Available Fund	Edit	Delete
surfing board	11/01/2024	Check for any dings, cracks, or damage. Reapply surf wax as needed for better grip. Ensure fins are secure and free of damage.	20	Rs.00000	Edit Delete
Surf-Deck surfing school					

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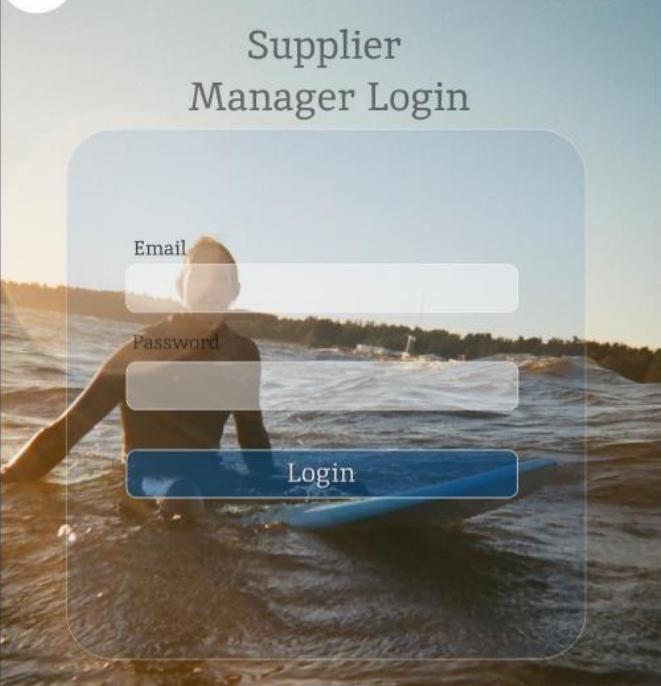
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Supplier Manager Login

Login



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[!\[\]\(e2a00442663c68300ad4cde5ff938f8b_img.jpg\)](#) [!\[\]\(9efce3cc77fdc41c25fd4ca82d4c451d_img.jpg\)](#)

[!\[\]\(c452cb8e93a50aedf2f1b137ca89b2c3_img.jpg\)](#)

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New Supplier



Address



Supply Items


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[!\[\]\(ef7cb4fc673524513191ab97e6ee6e88_img.jpg\)](#) [!\[\]\(94c5524d9f0c788fad6ba1782a66e824_img.jpg\)](#)

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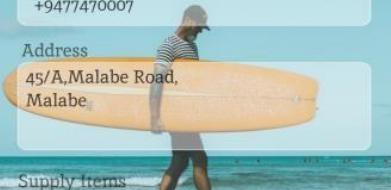
New Supplier

Supplier Name
L.S.L.Herath

Contact Number
+9477470007

Address
45/A,Malabe Road,
Malabe

Supply Items
surfing board
Wetsuit
Surf Wax



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Order Request

Item Name

Quantity

Description



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Surf -Deck Surfing School

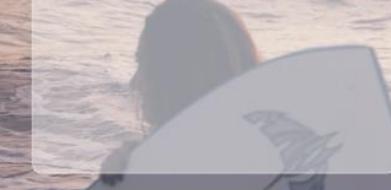
[Home](#) [About us](#) [Packages](#) [Events](#) [Staff](#) [Equipments](#) [Suppliers](#) [Payment](#)

Order Request

Item Name

Quantity

Description



SUBMIT

[Home](#) [About us](#) [Packages](#) [Events](#) [Staff](#) [Contact us](#)



Address
Surf-Deck surfing school,
Beach Road ,
Arugambay

 surfdeck@gmail.com
+99 112455800
+99 34007890

Ashan P G S - IT22256300

Surf-Deck Surfing School

The screenshot shows a grid of four surfboards. Top-left: A teal longboard with a price of Rs.500/Day and buttons for Rent (blue) and Buy (red). Top-right: A white longboard with a price of Rs.10000 and buttons for Rent (blue) and Buy (red). Bottom-left: A blue longboard with a price of Rs.700/Day and buttons for Rent (blue) and Buy (red). Bottom-right: A blue longboard with a price of Rs.15000 and buttons for Rent (blue) and Buy (red).

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Email: surfdeck@gmail.com

Contact: +99 12455800
+99 34007890

Social Media: Facebook, Instagram

Surf-Deck Surfing School

Rent Payment

Credit Card Details

Input fields for Card Number, MM/YY, and CVC.

Personal Details

Input fields for Full Name, Address, Email, and Phone Number.

Submit

Address: Surf-Deck surfing school, Beach Road, Arugambay

Email: surfdeck@gmail.com

Contact: +99 12455800
+99 34007890

Social Media: Facebook, Instagram

Surf-Deck Surfing School

The screenshot shows a grid of four surfboards. Top-left: A teal longboard with a price of Rs.500/Day and buttons for Update (blue) and Delete (red). Top-right: A white longboard with a price of Rs.10000 and buttons for Update (blue) and Delete (red). Bottom-left: A blue longboard with a price of Rs.700/Day and buttons for Update (blue) and Delete (red). Bottom-right: A blue longboard with a price of Rs.15000 and buttons for Update (blue) and Delete (red).

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Social Media: Facebook, Instagram

Surf-Deck Surfing School

Rent Payment

Credit Card Details

ID	Card Number	MM/YY	CVC	Edit	Delete
1	2000454	45/56	123		
2	7520067	26/57	123		

Personal Details

ID	Full Name	Address	Email	Phone Number	Edit	Delete
1	Ranil	Colombo	ranil@gmail.com	07756310		
2	Sajith	Colombo	sajith@gmail.com	01154893		

Address: Surf-Deck surfing school, Beach Road, Arugambay

Email: surfdeck@gmail.com

Contact: +99 12455800
+99 34007890

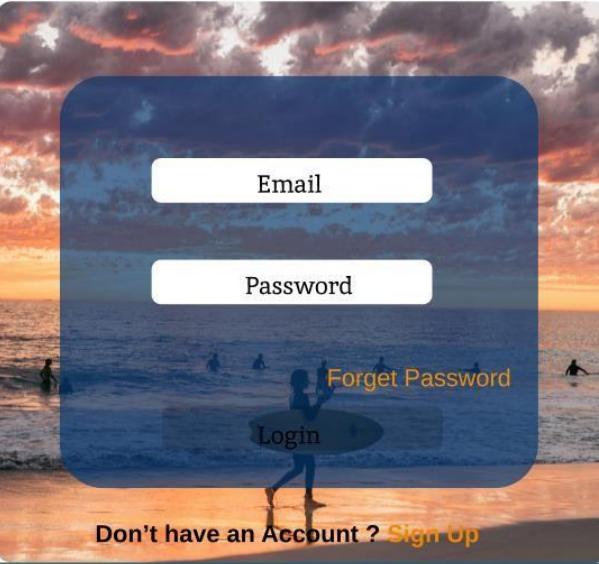
Social Media: Facebook, Instagram

Perera K.T.K - IT22235688

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Staff member Login



Email

Password

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[Don't have an Account ? **Sign Up**](#)

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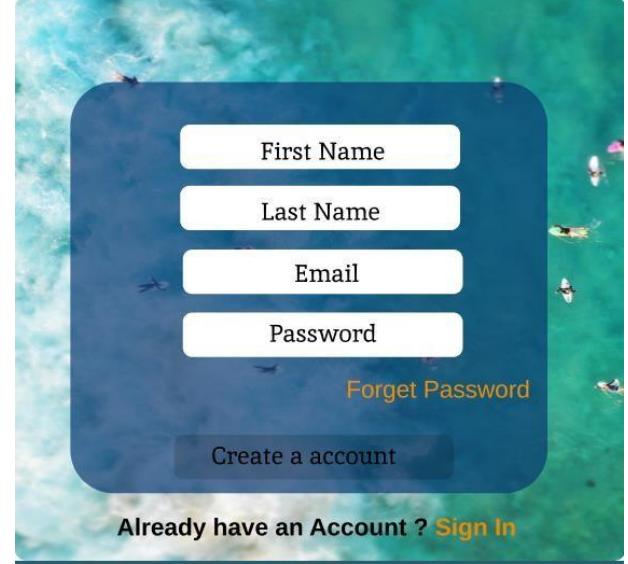
surfdeck@gmail.com
+99 112455800
+99 34007990

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Staff member Create account



First Name

Last Name

Email

Password

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[Create a account](#)

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Forget password



Password

Confirm Password

[Update Password](#)

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Personal details

[Update details](#)

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Staff table

SID	First Name	Last Name	Email	Password	
1	Pasindu	Dilshan	P123@gmail.com	123	
2	Rishitha	Dilmith	R12@gmail.com	123	

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B M V Sandareka- IT22281500

The screenshots illustrate the user flow for account creation and management on the Surf-Deck Surfing School website.

Registration Page: A "Welcome Back!" message encourages users to "Please Enter your details". It features fields for E-mail, Name, Address, Phone Number, and Password, along with "Sign in" and "Register" buttons. The background shows surfers in the ocean.

Sign-in Page: A "Hello!" message greets returning users. It includes fields for "Email" and "password", and links for "Remember me", "forgot password?", "Not Registered?", and "Create an account". The background shows surfers in the ocean.

Student Profile Page: This page displays the user's profile information: Full Name (vishmi Sandareka), Email (vishmi65@gmail.com), Address (Colombo), and Phone Number (0724043311). An "Update profile details" button is at the bottom. The background shows surfers in the ocean.

Footer Information: The footer for all pages includes the Surf-Deck logo, navigation links (Home, About us, Packages, Events, Staff, Equipments, Suppliers, Payment, Contact us), contact information (Address: Surf-Deck surfing school, Beach Road, Arugambay; Email: surfdeck@gmail.com; Phone: +99 12455800, +99 34007890), and social media links (Facebook, Instagram).

Surf-Deck Surfing School



Home About us Packages Events Staff Equipments Suppliers Payment Contact us



Student details list

ID	Full Name	Address	Email	Phone Number		
1	vishmi	Colombo	vishmi81@gmail.com	07234566		
2	Sachin	Kandy	Sachin67@gmail.com	01154893		
3	Nimana	Colombo	Nim123@gmail.com	01154893		
4	Sumudu	Mathara	sumudu27@gmail.com	01154893		

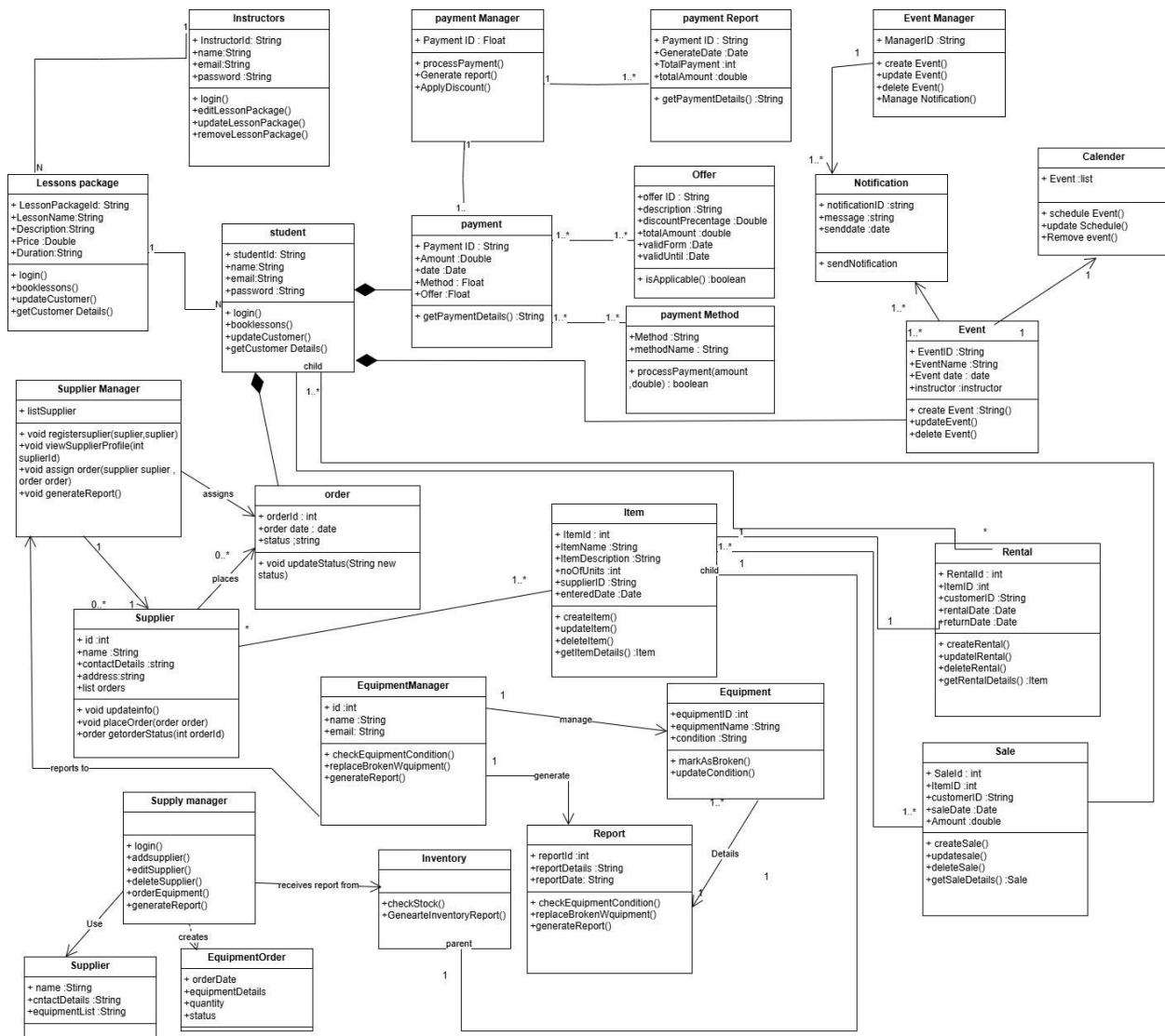
Home
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Arugam Bay

 surfdeck@gmail.com
+94 70265800
+94 34007690

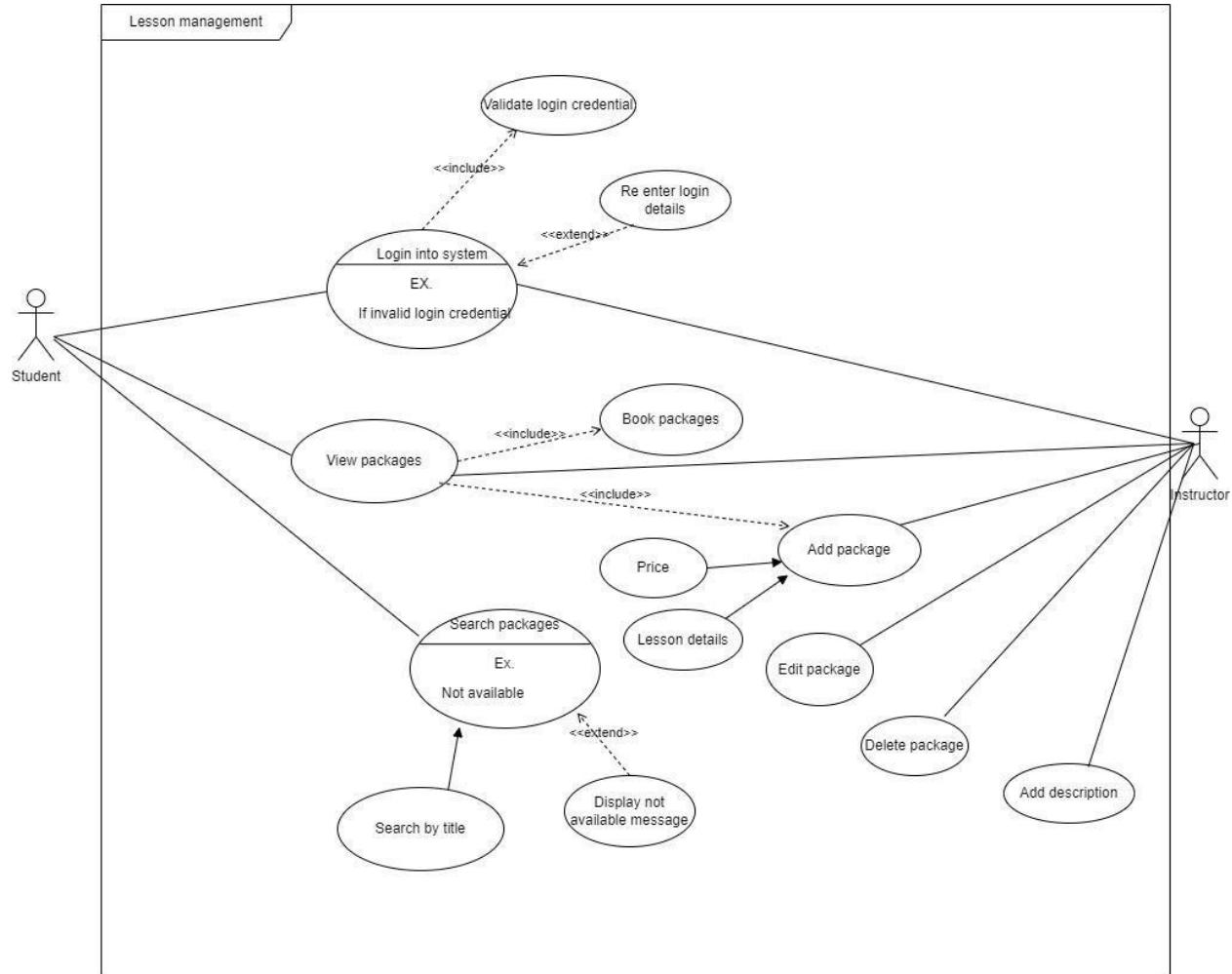
Question 06 (Class Diagram)

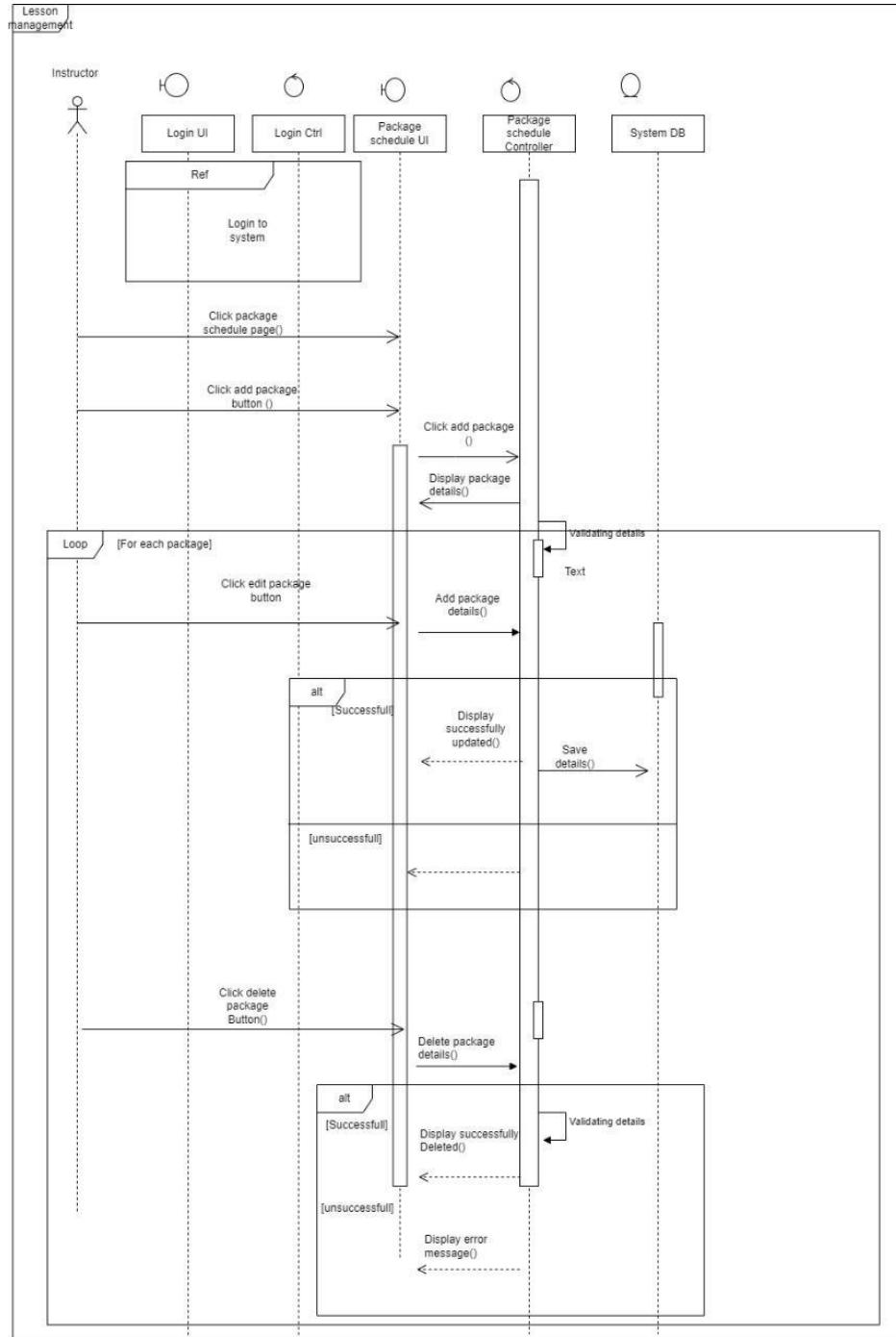


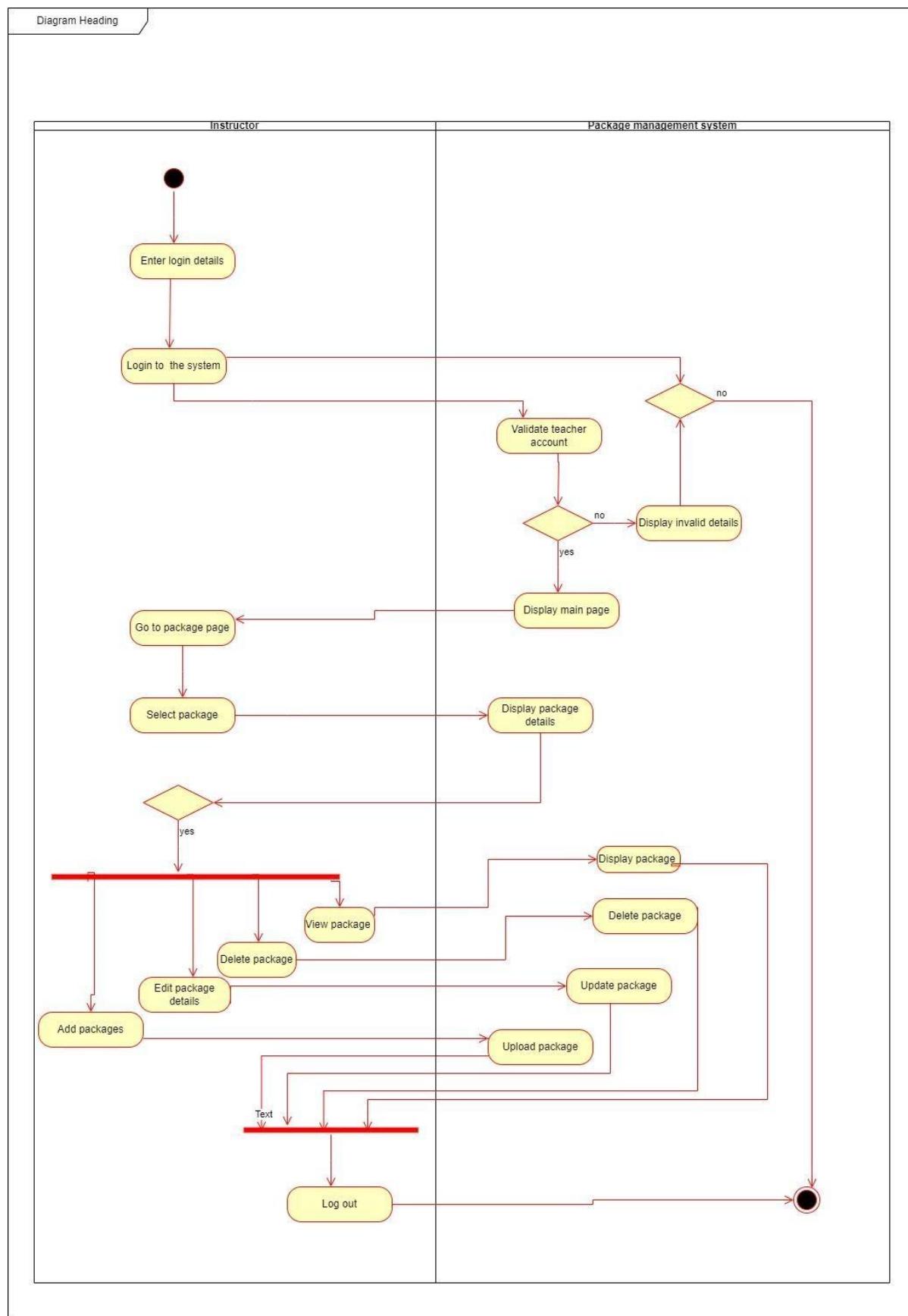
Question 7 & 8

IT22127778 – Chavindee M A P

Lesson management

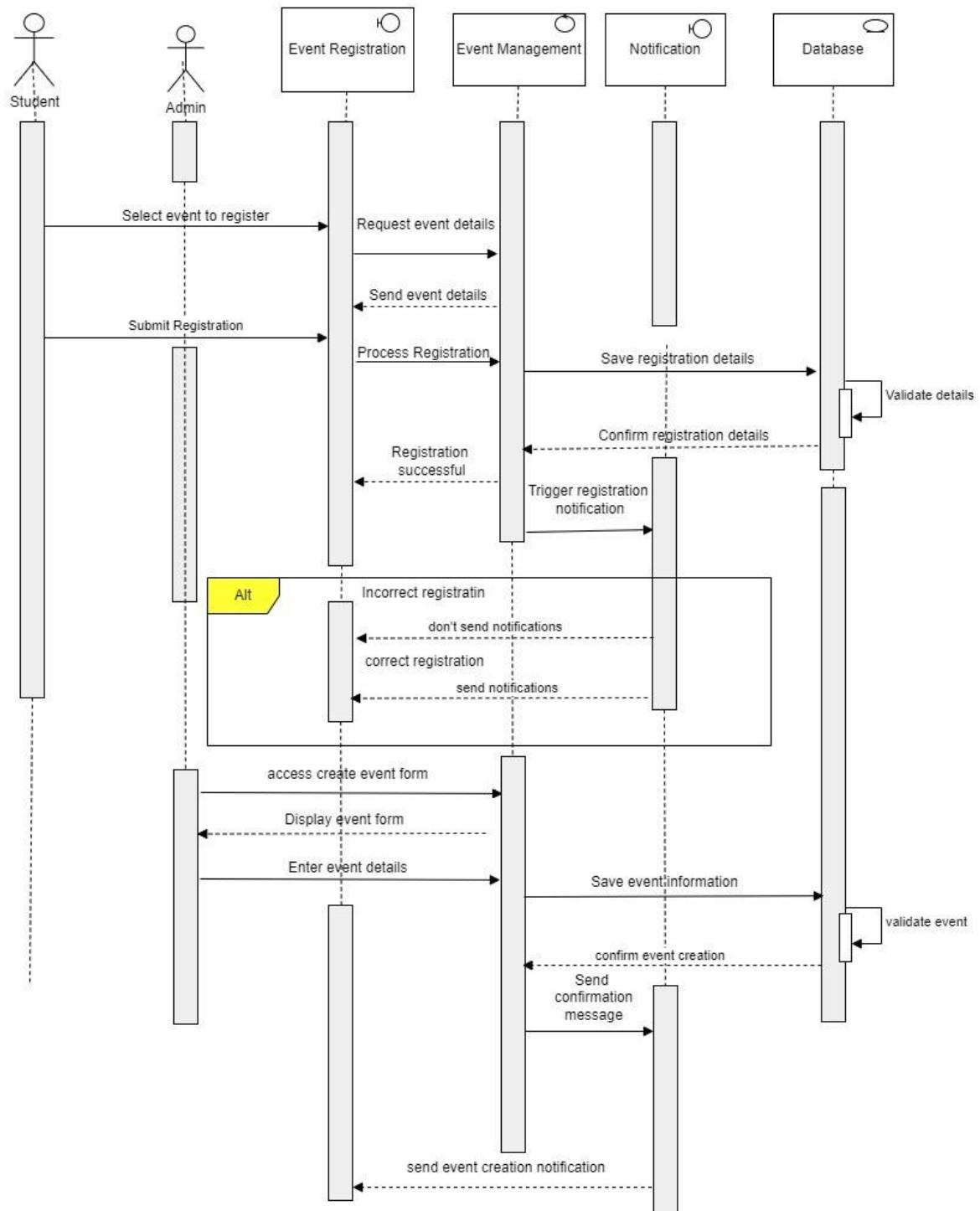


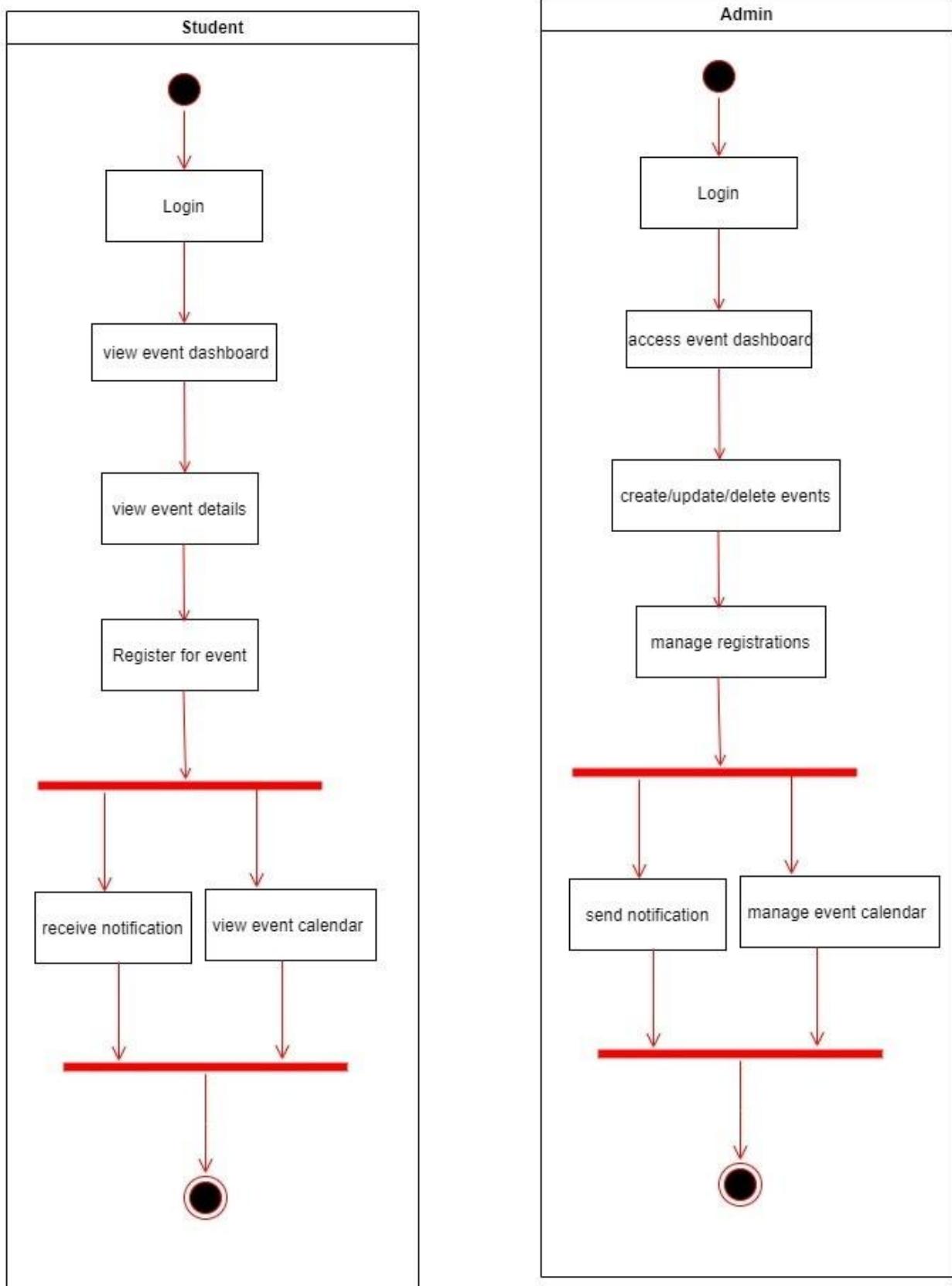


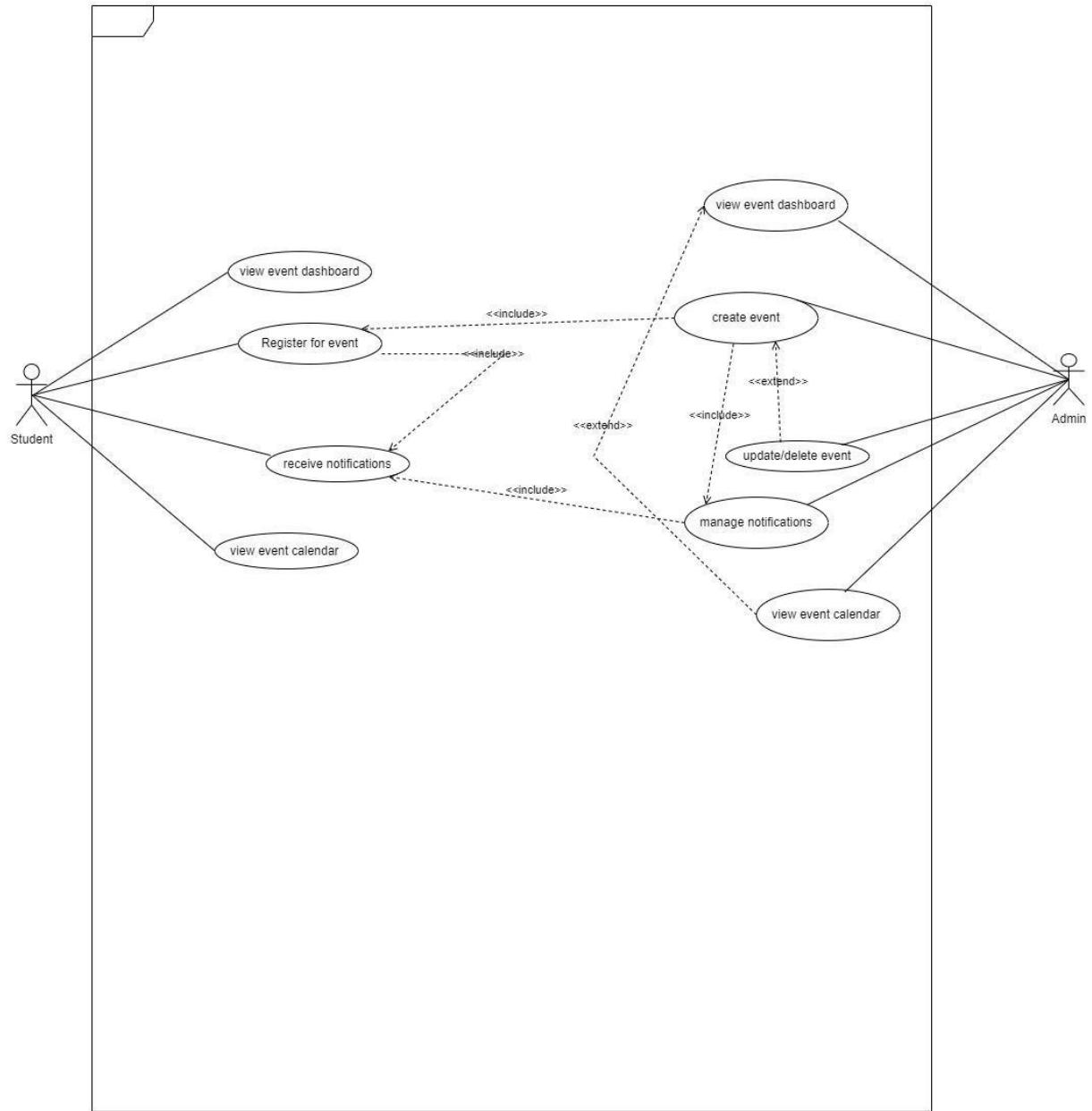


IT22243980 – Wickramarachchi T T

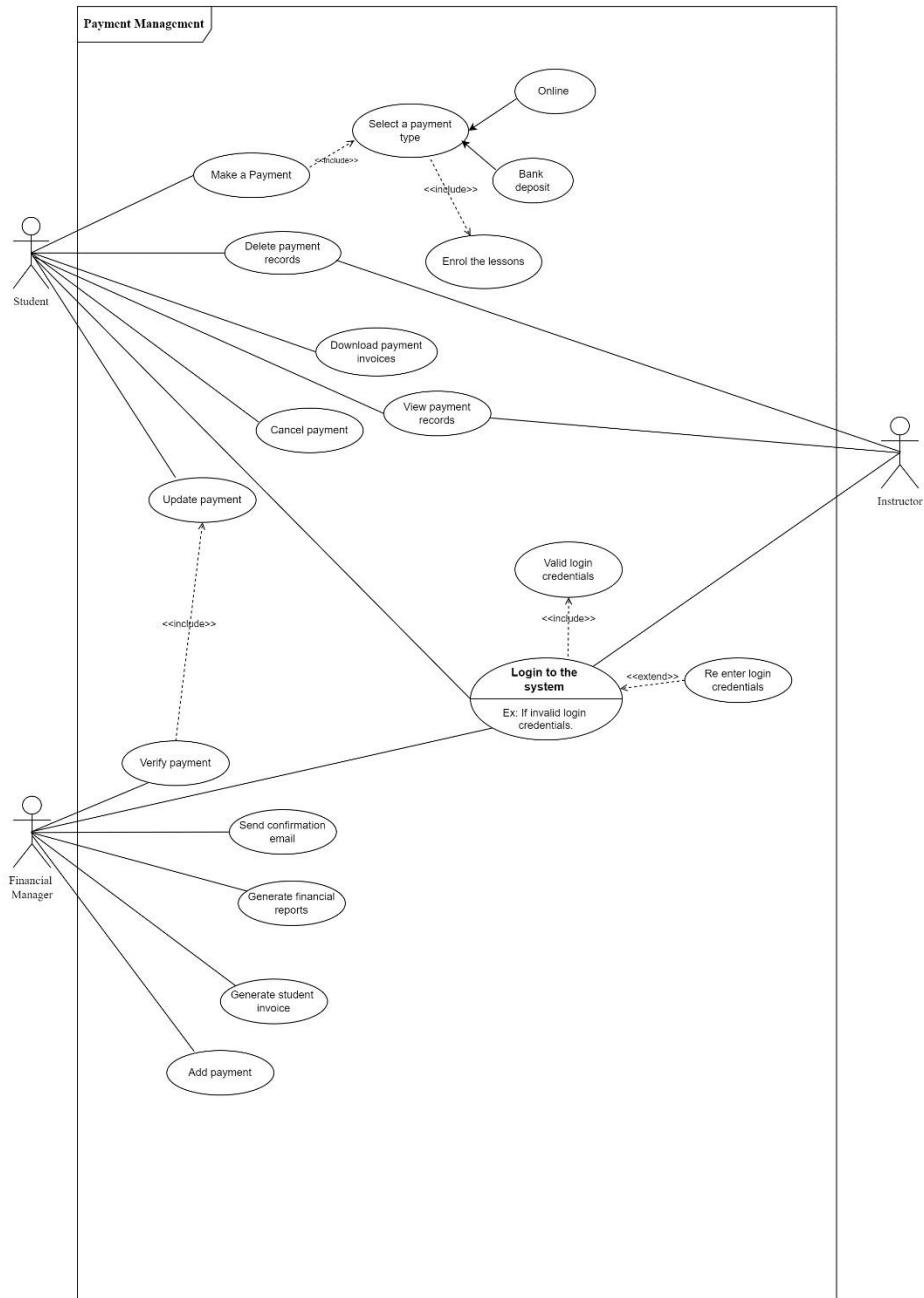
Event management

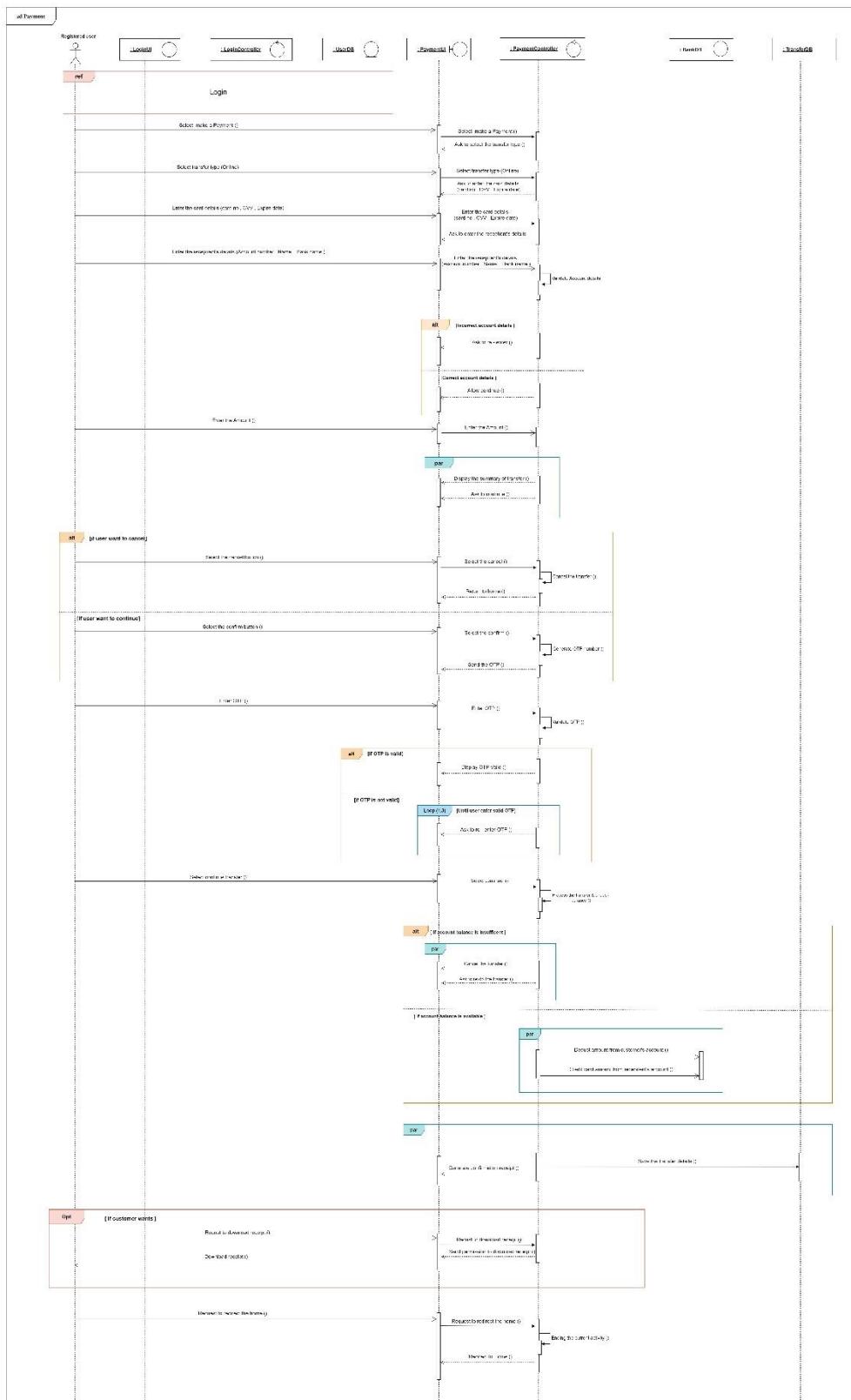


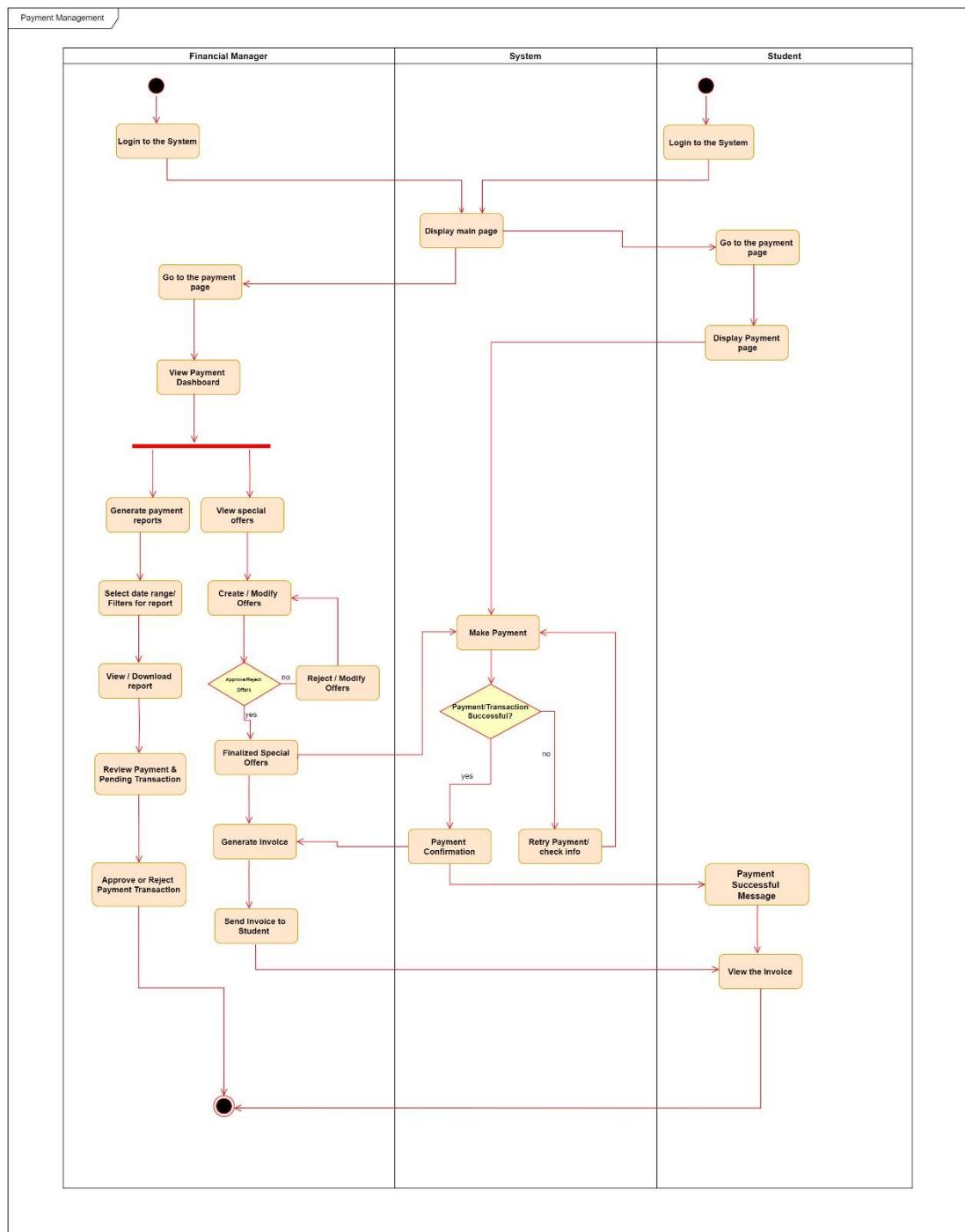


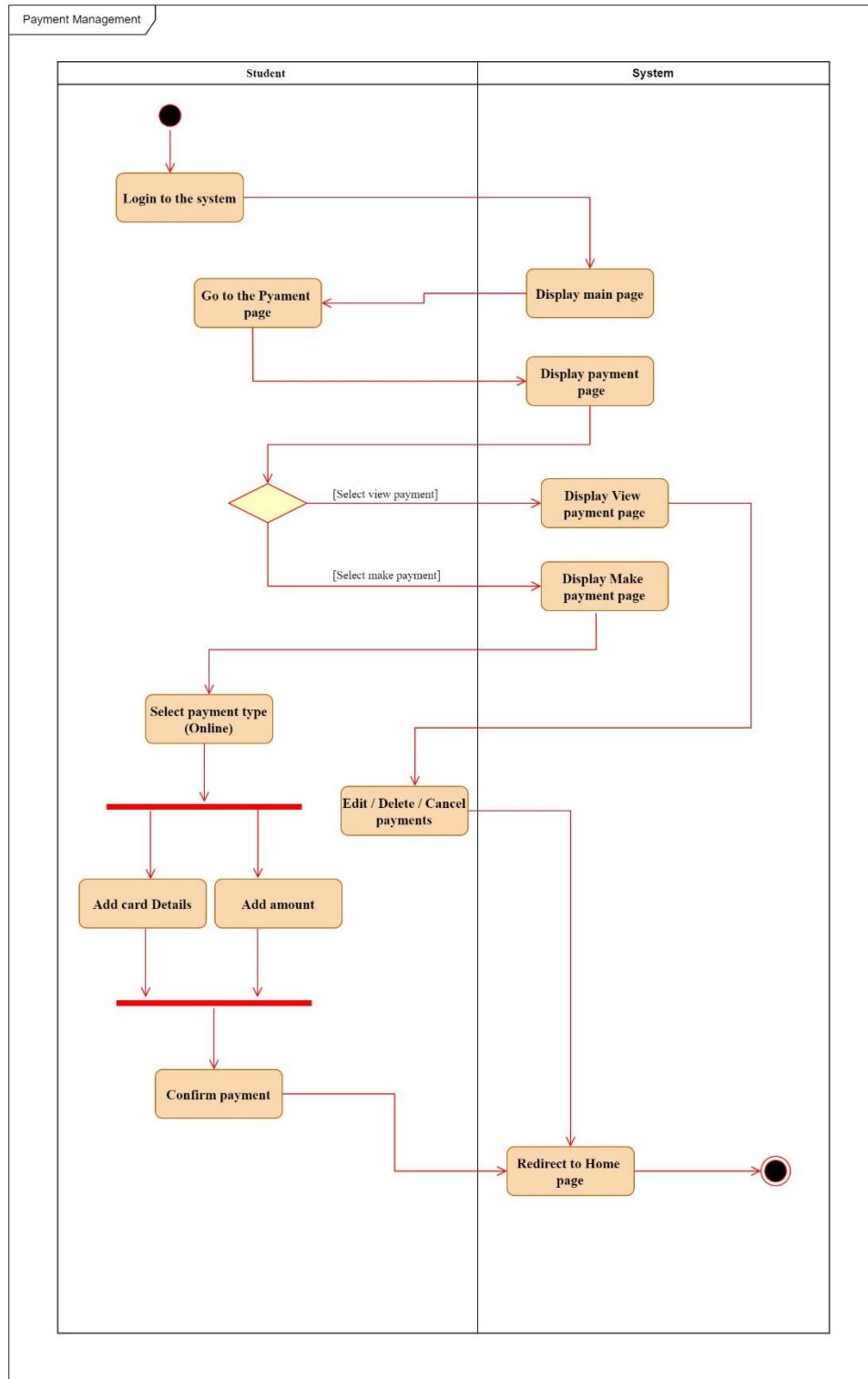


IT22165848 – Hettiarachchi A T Financial manager

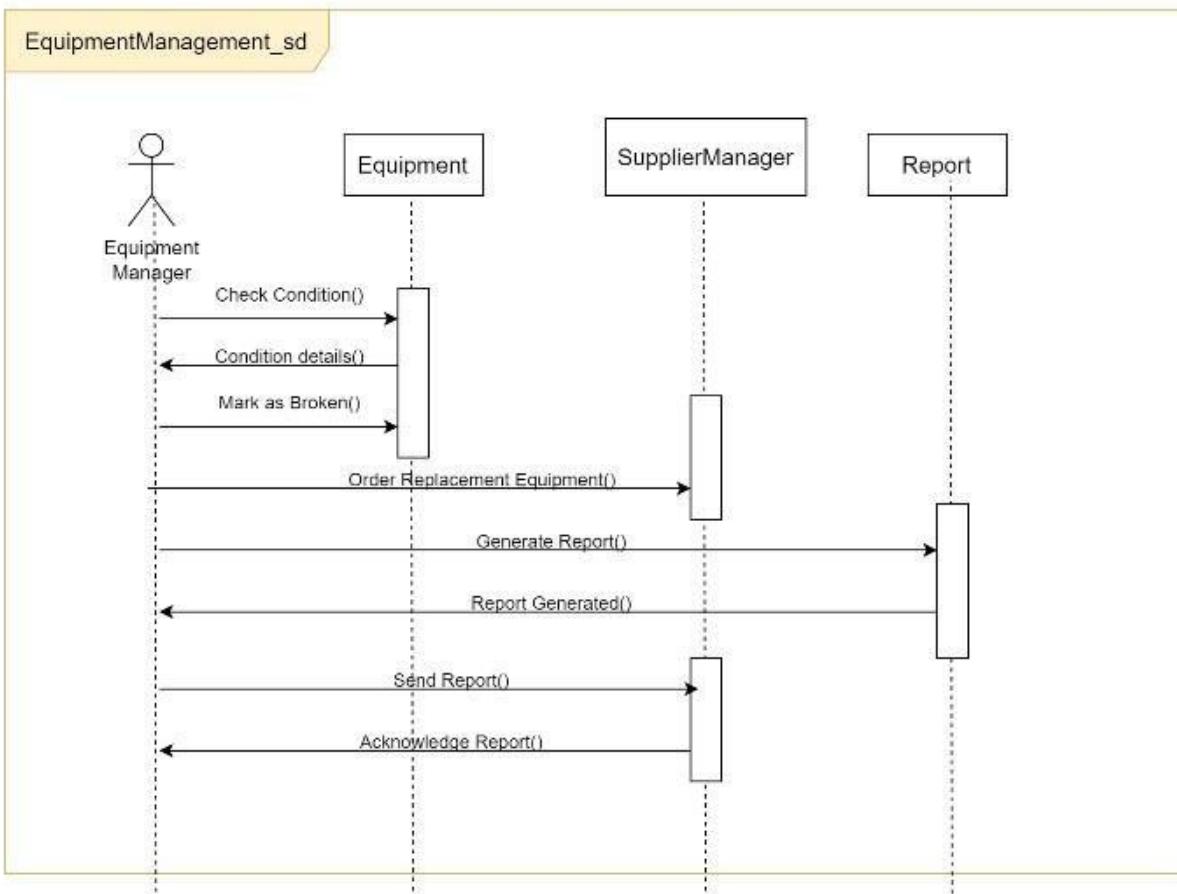
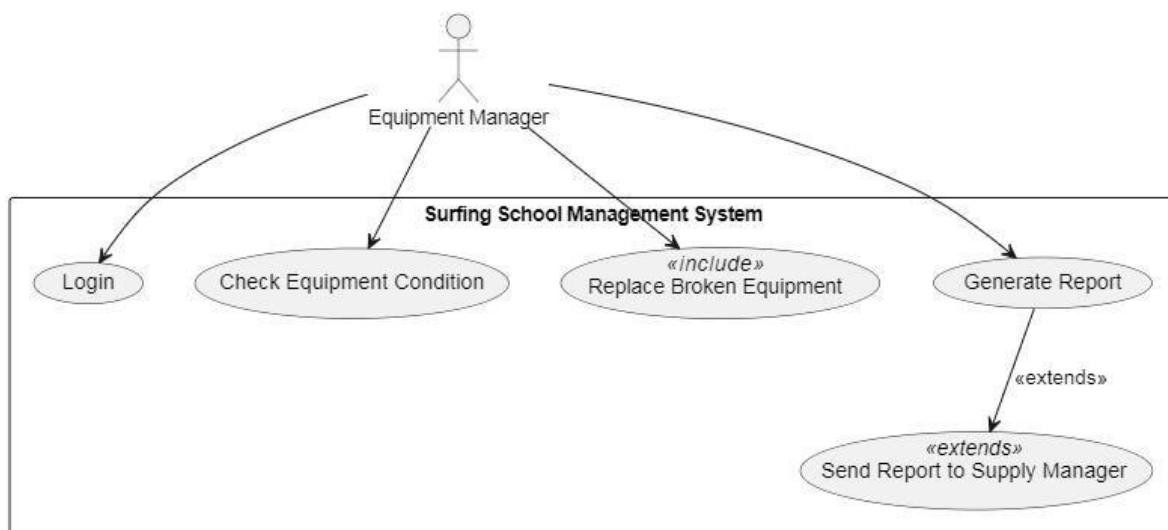


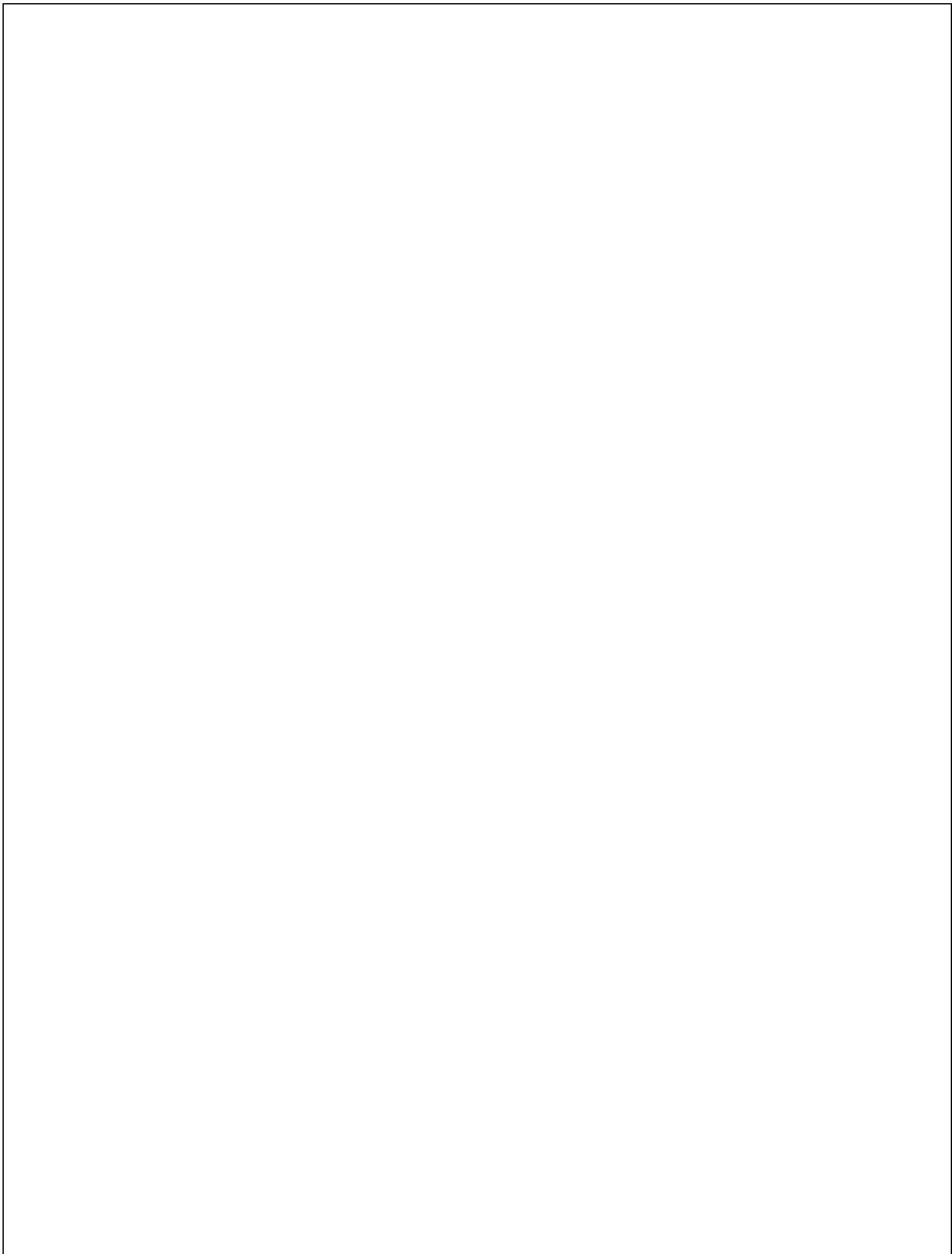


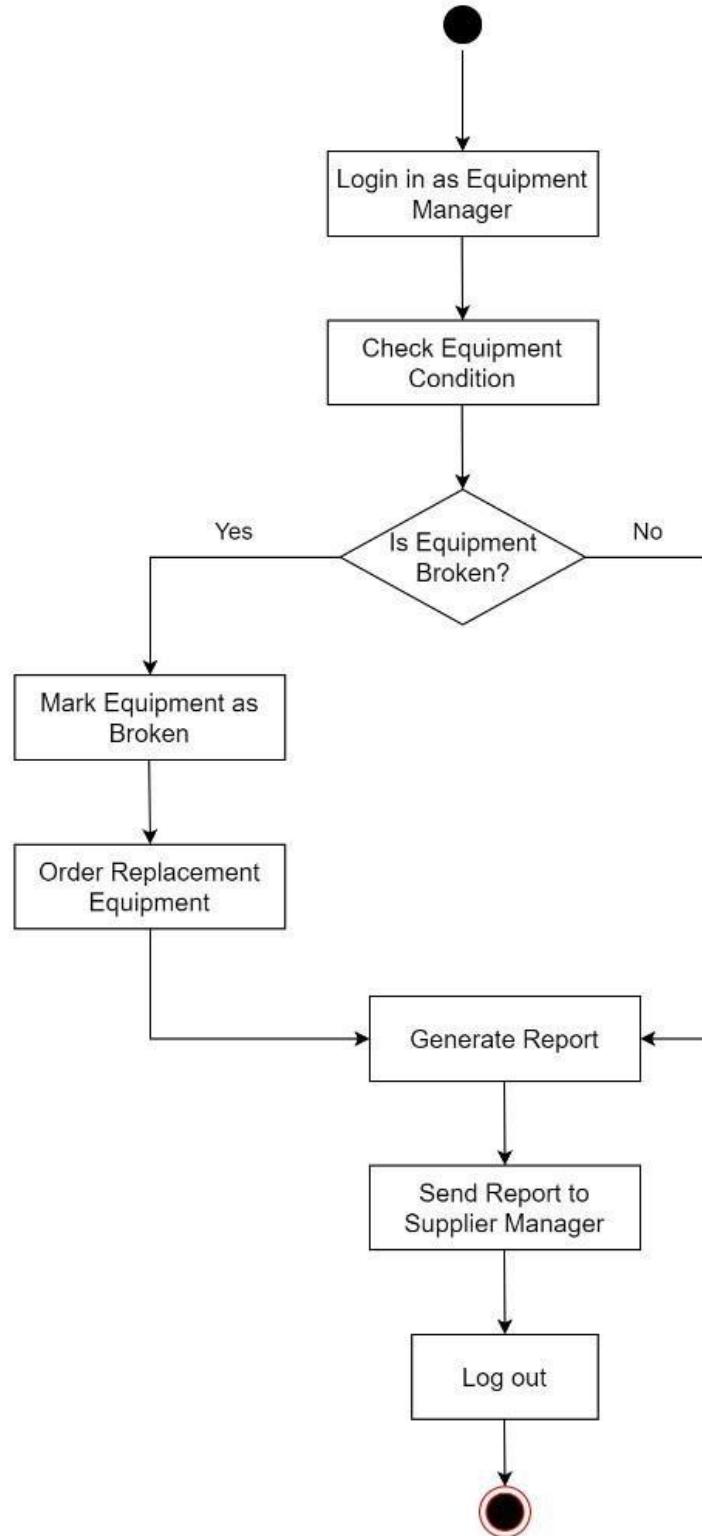




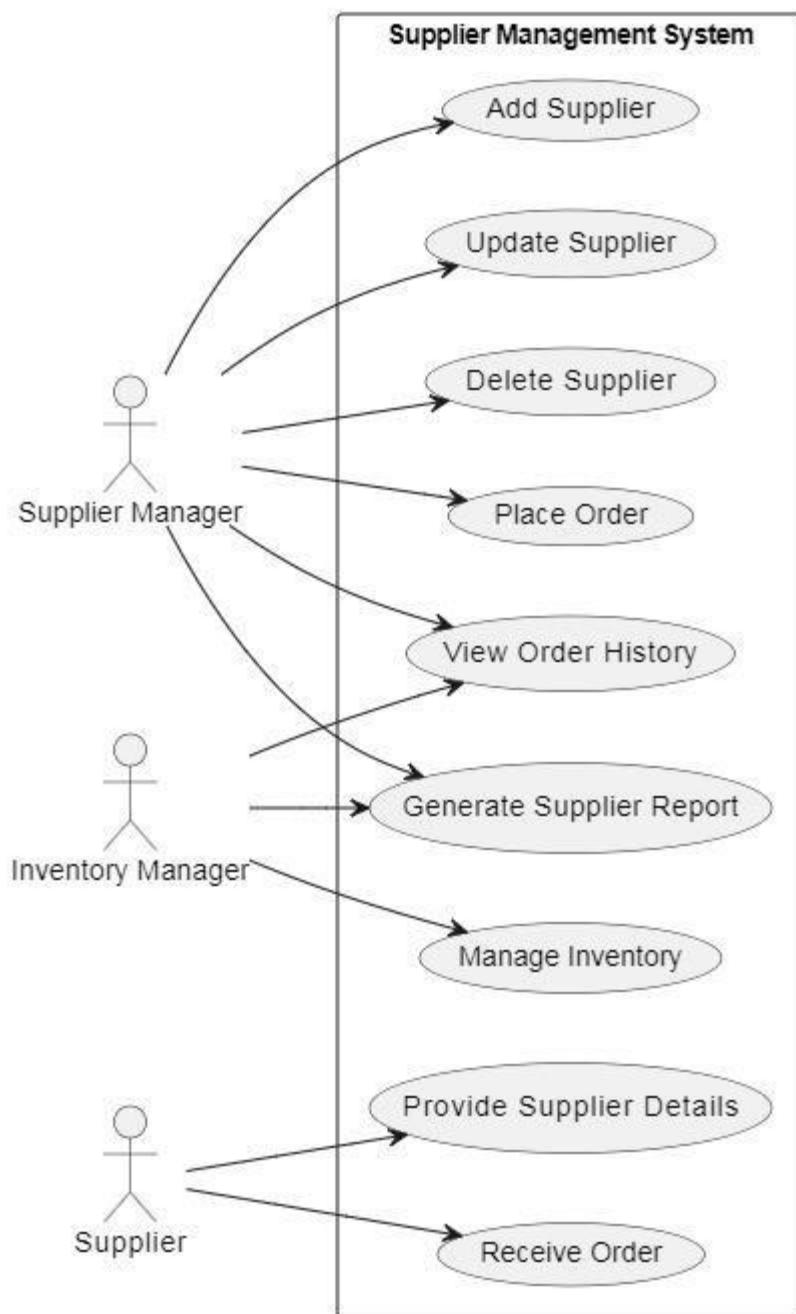
IT22083814 – Chandrasena H P Equipment Manager

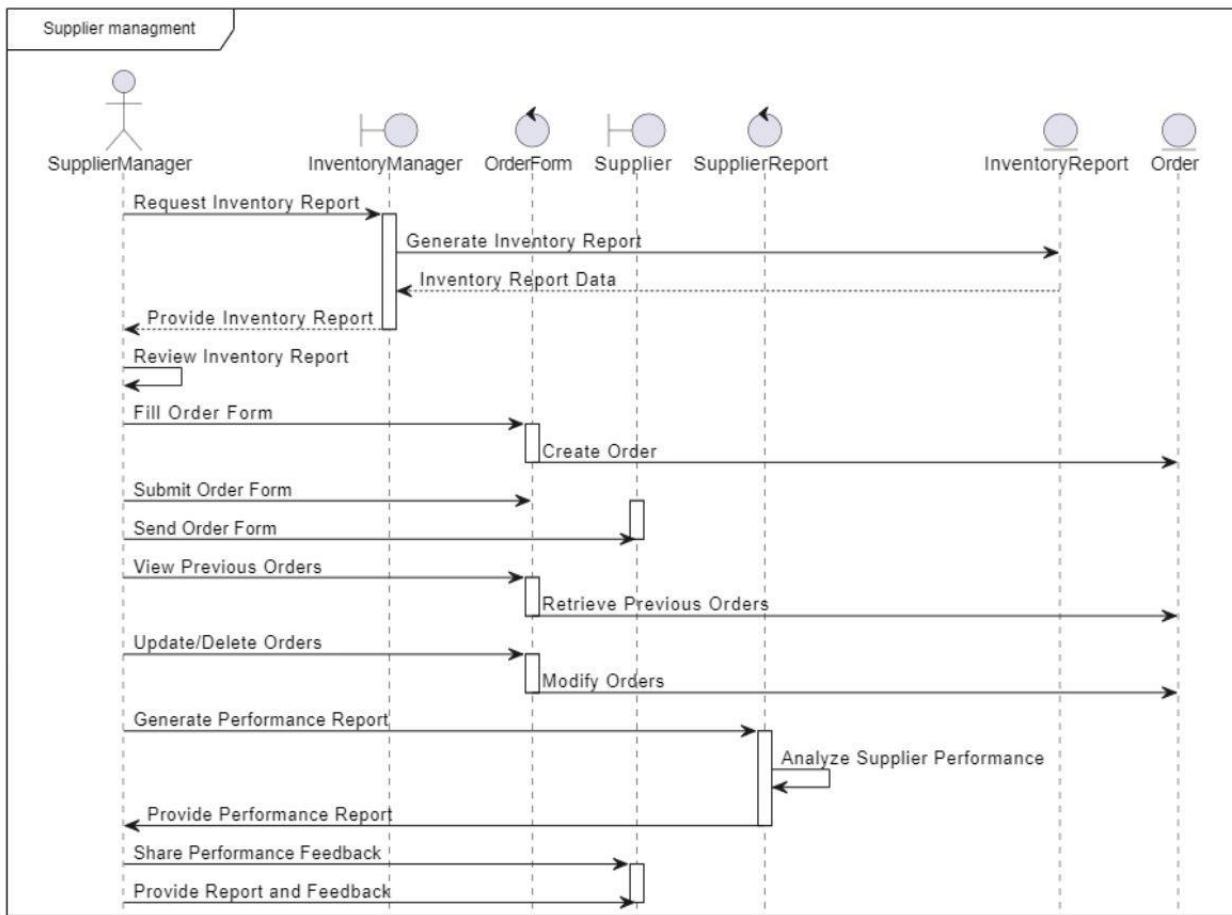


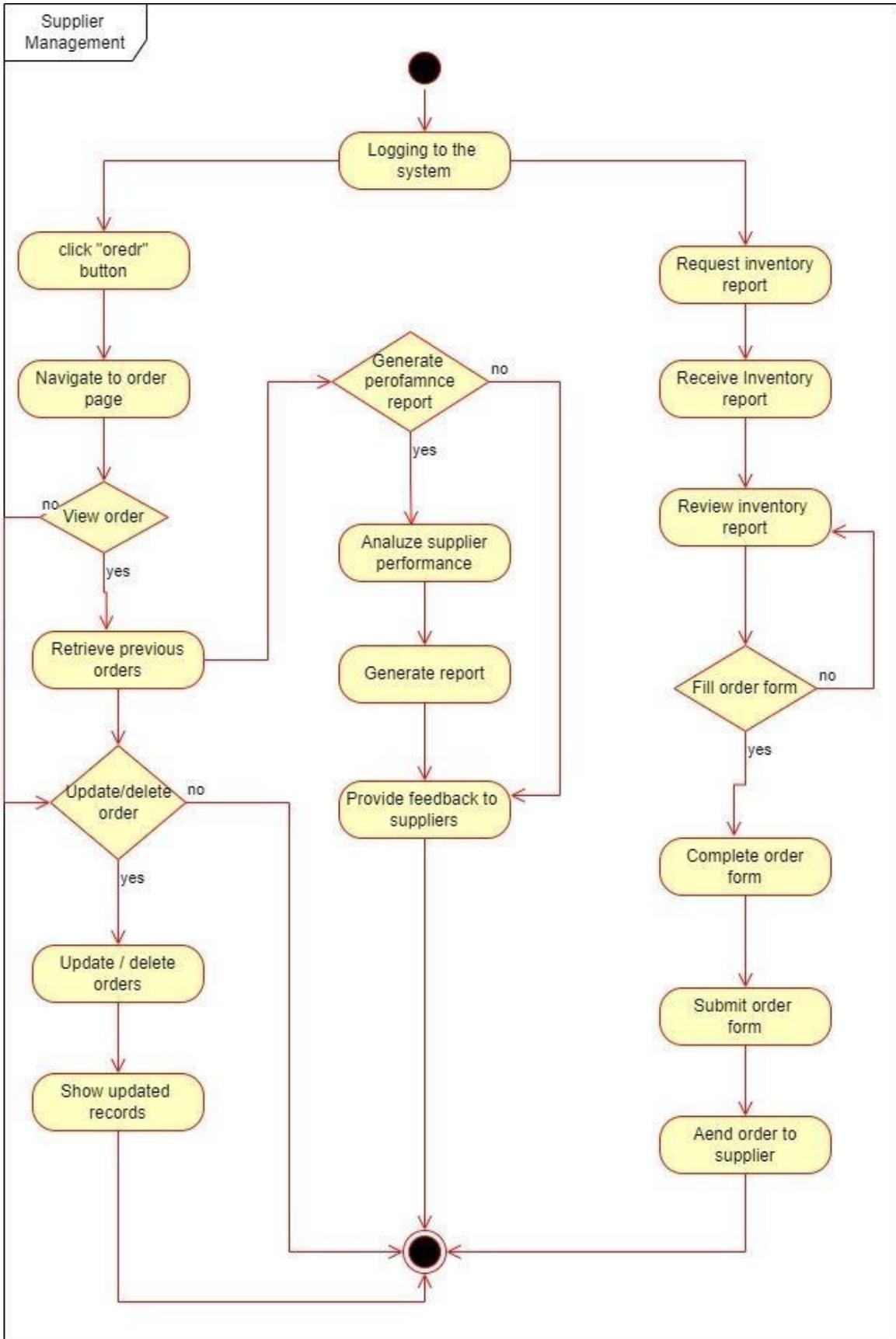




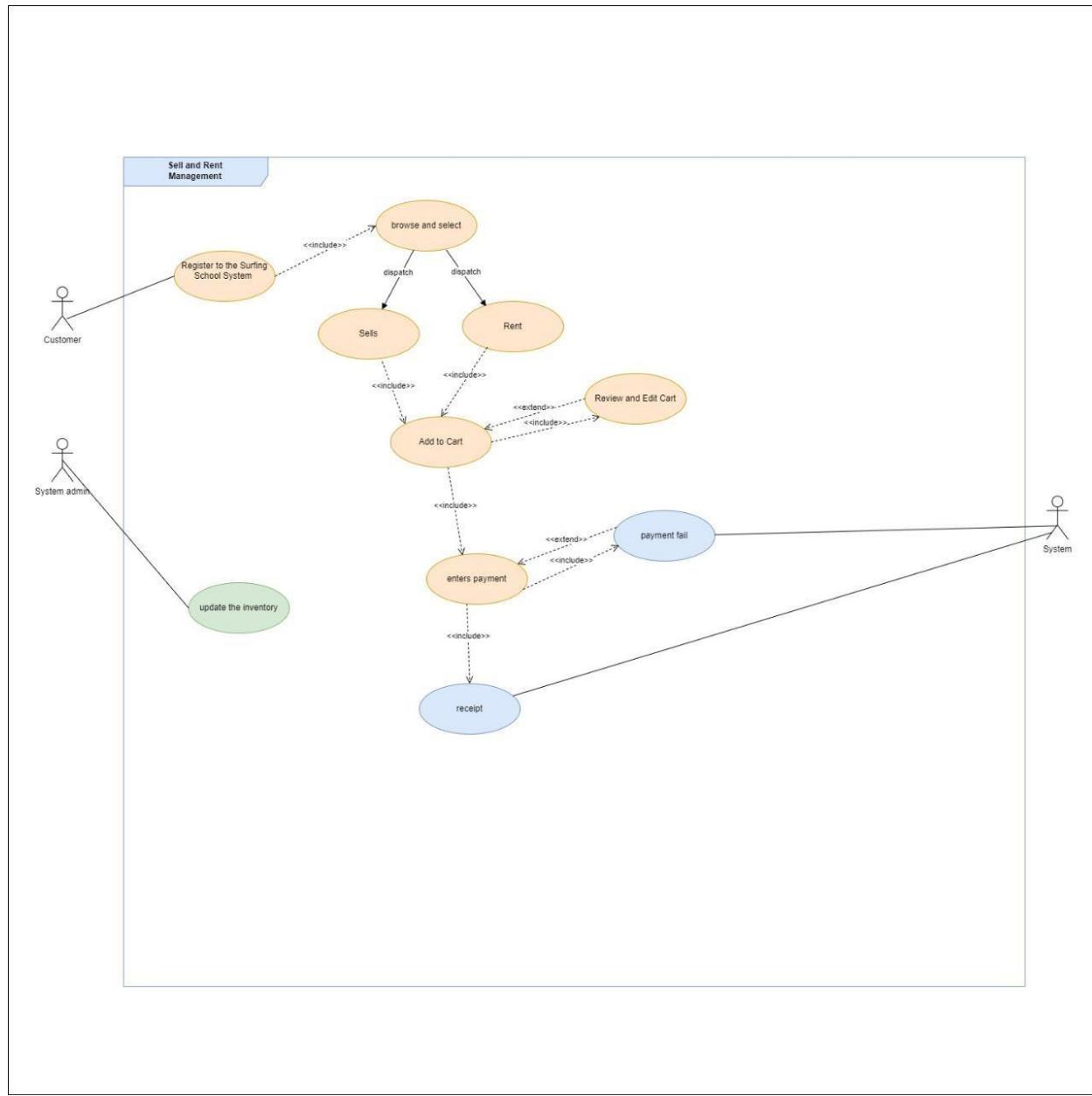
IT22168740 – Hewanayake H M L M Supply Manager

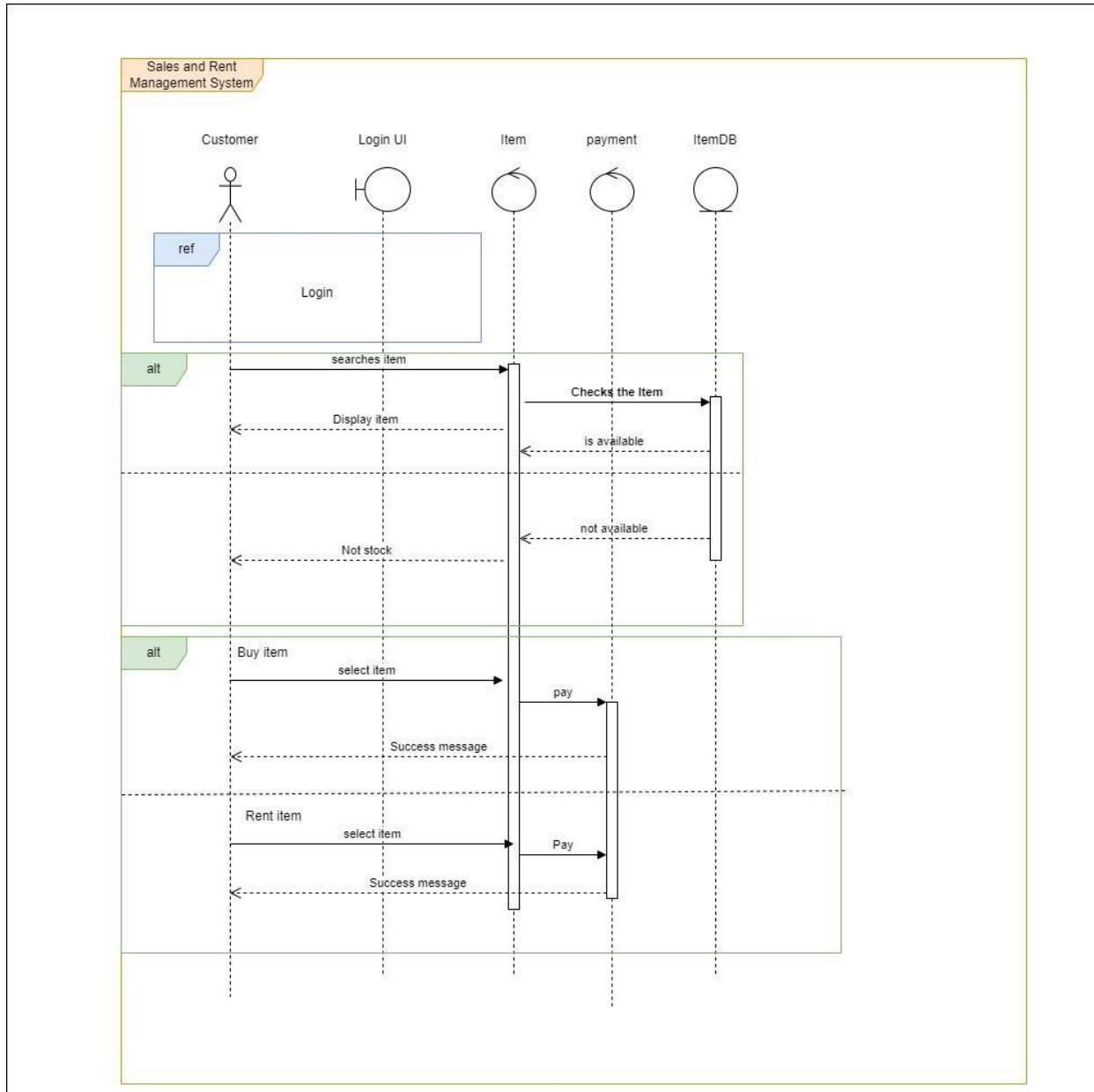


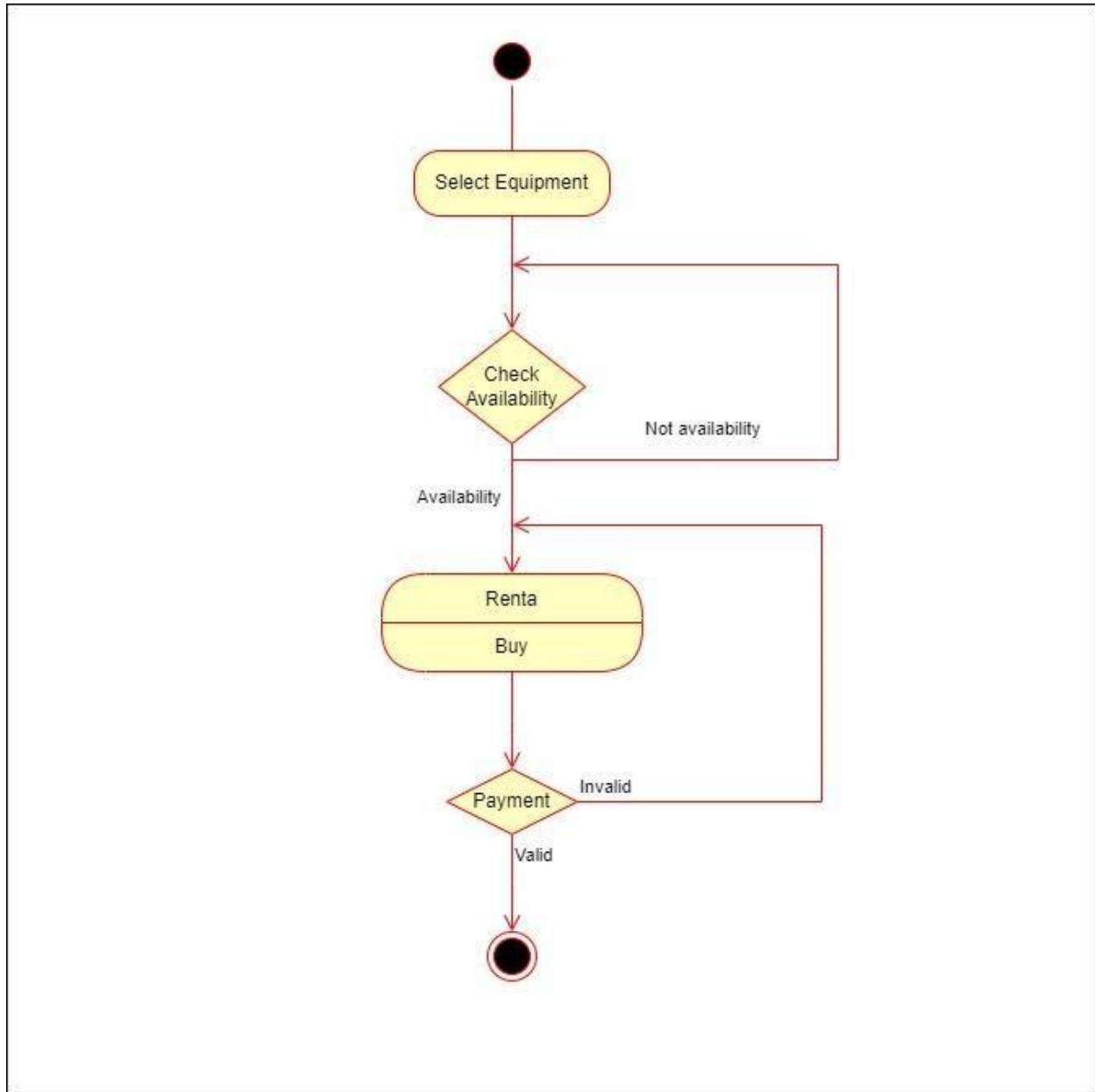




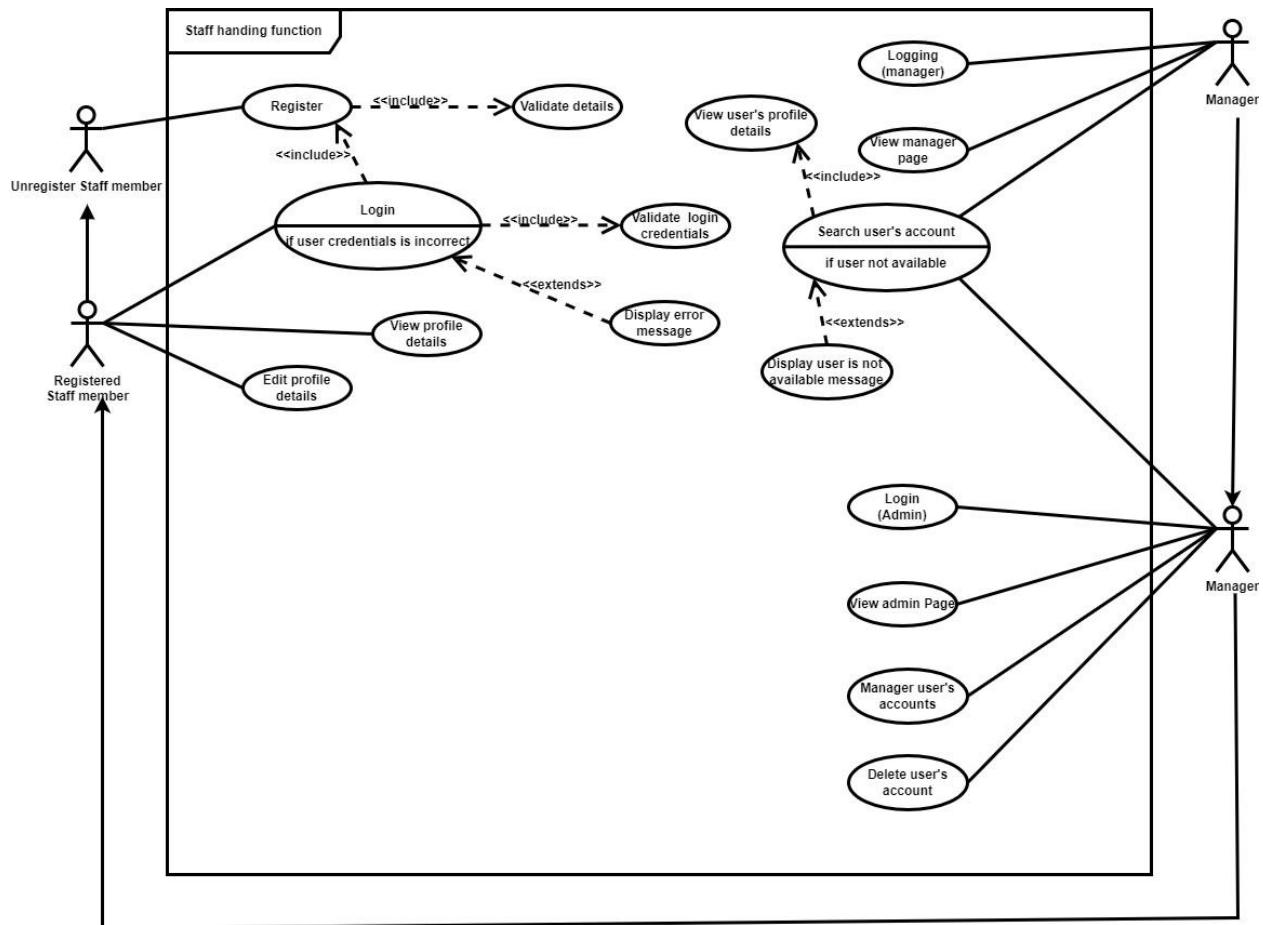
IT2256300 – Ashan P G S Sales and Rent Management

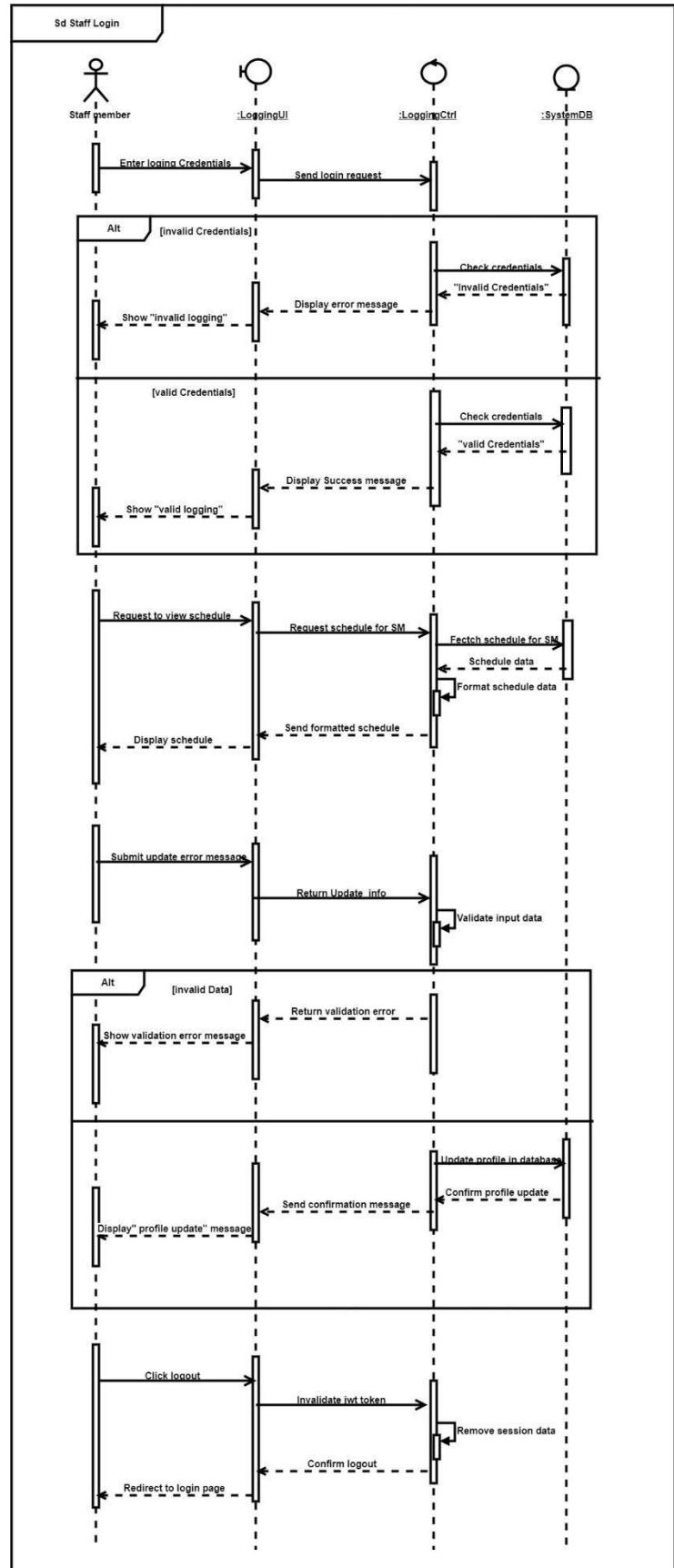


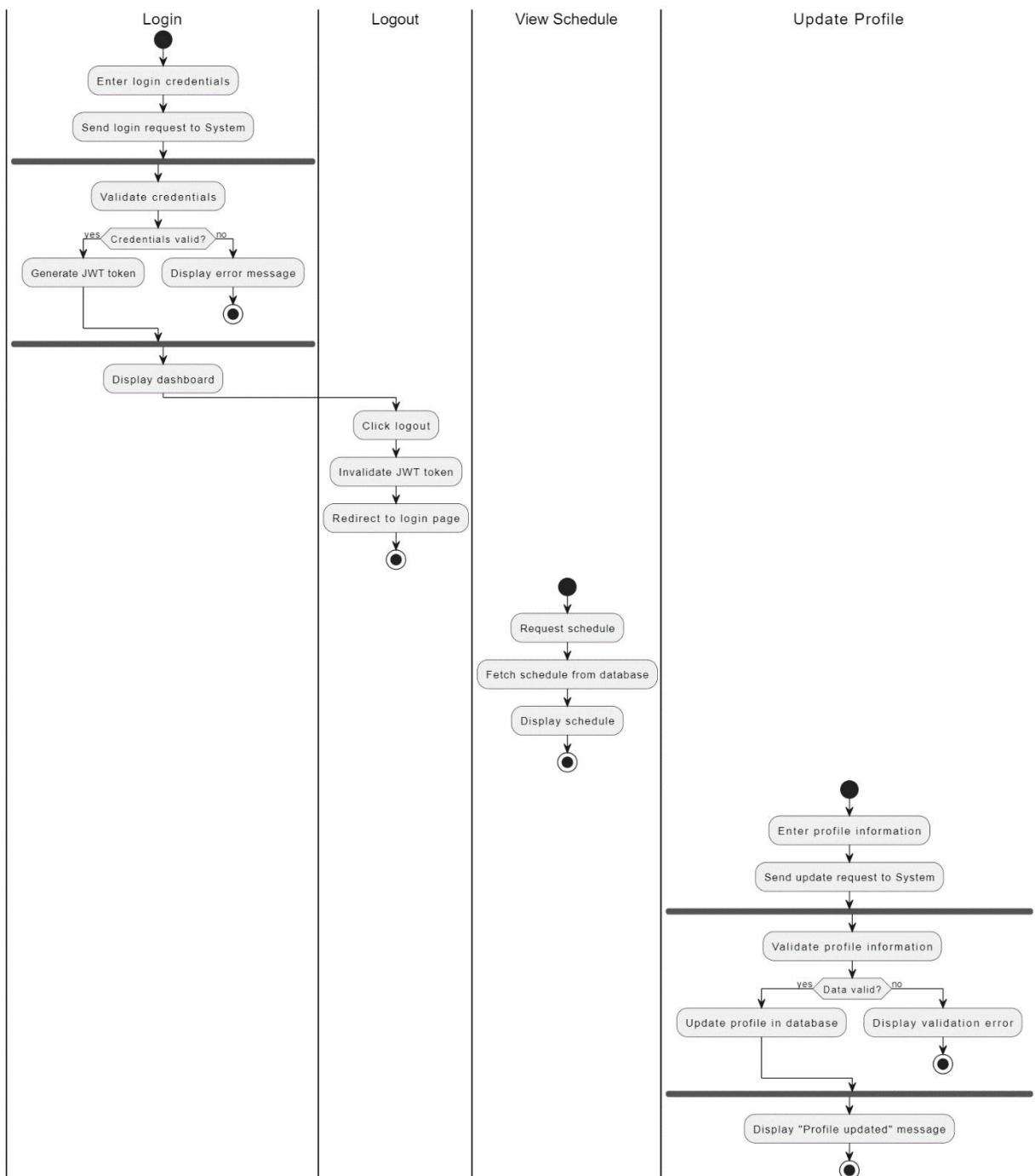




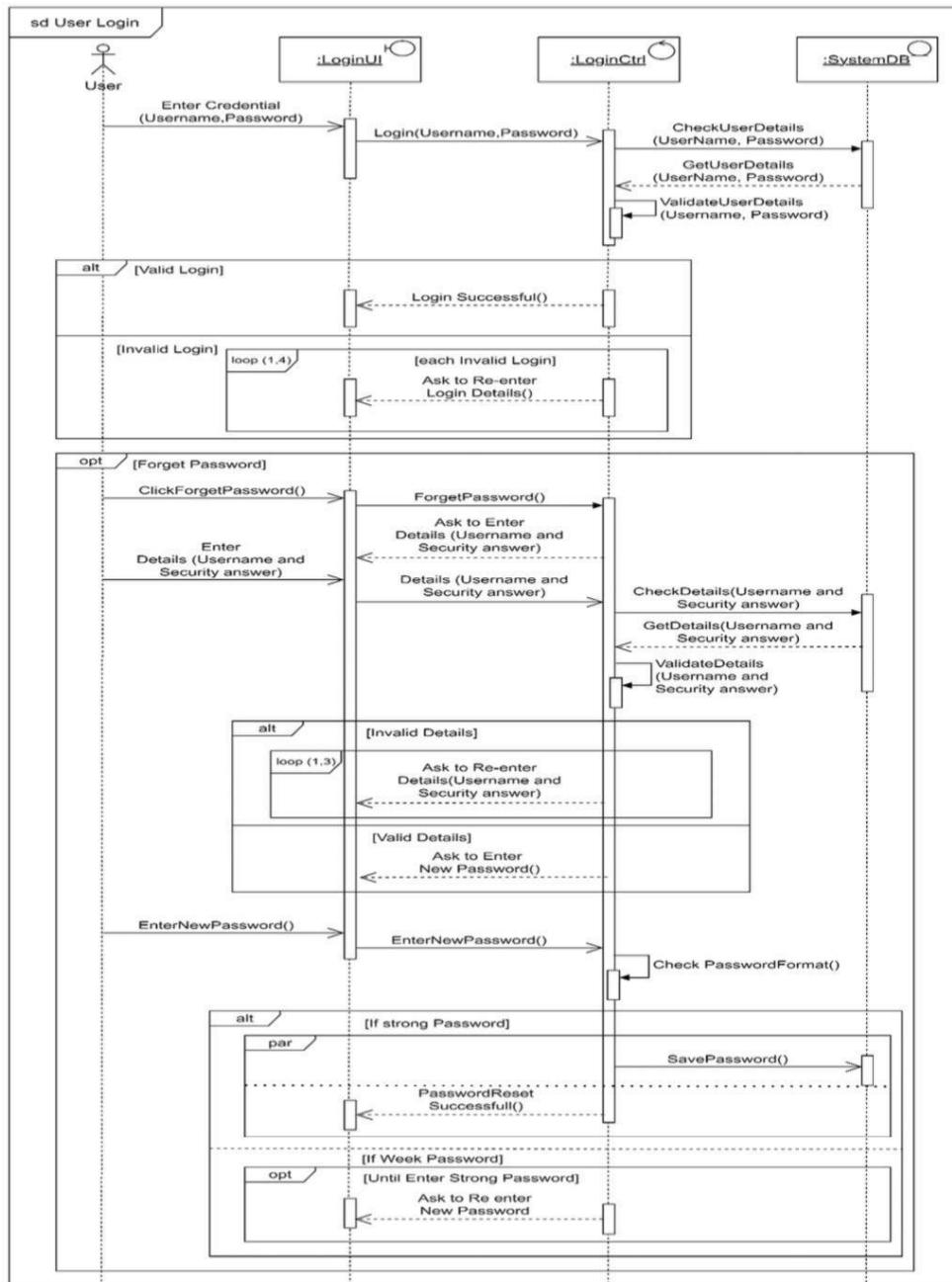
Perera K.T.K – IT22235688 Staff Manager

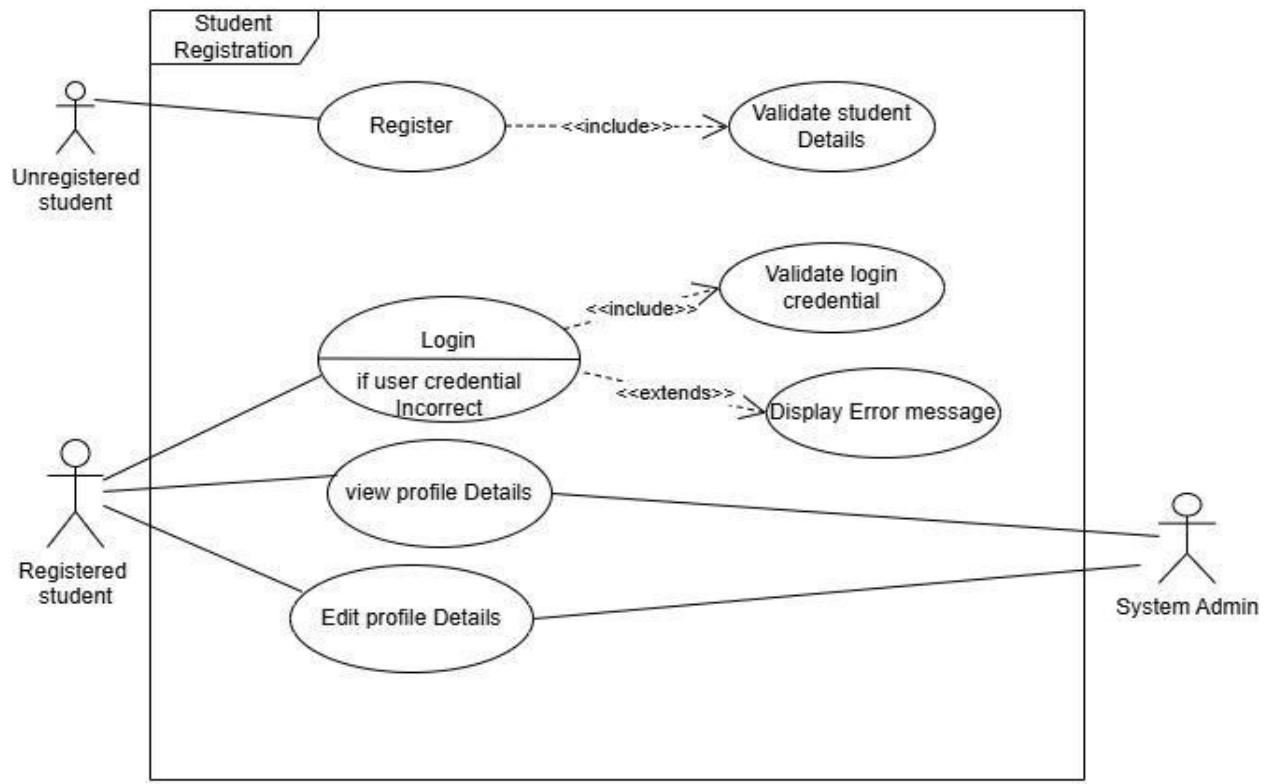


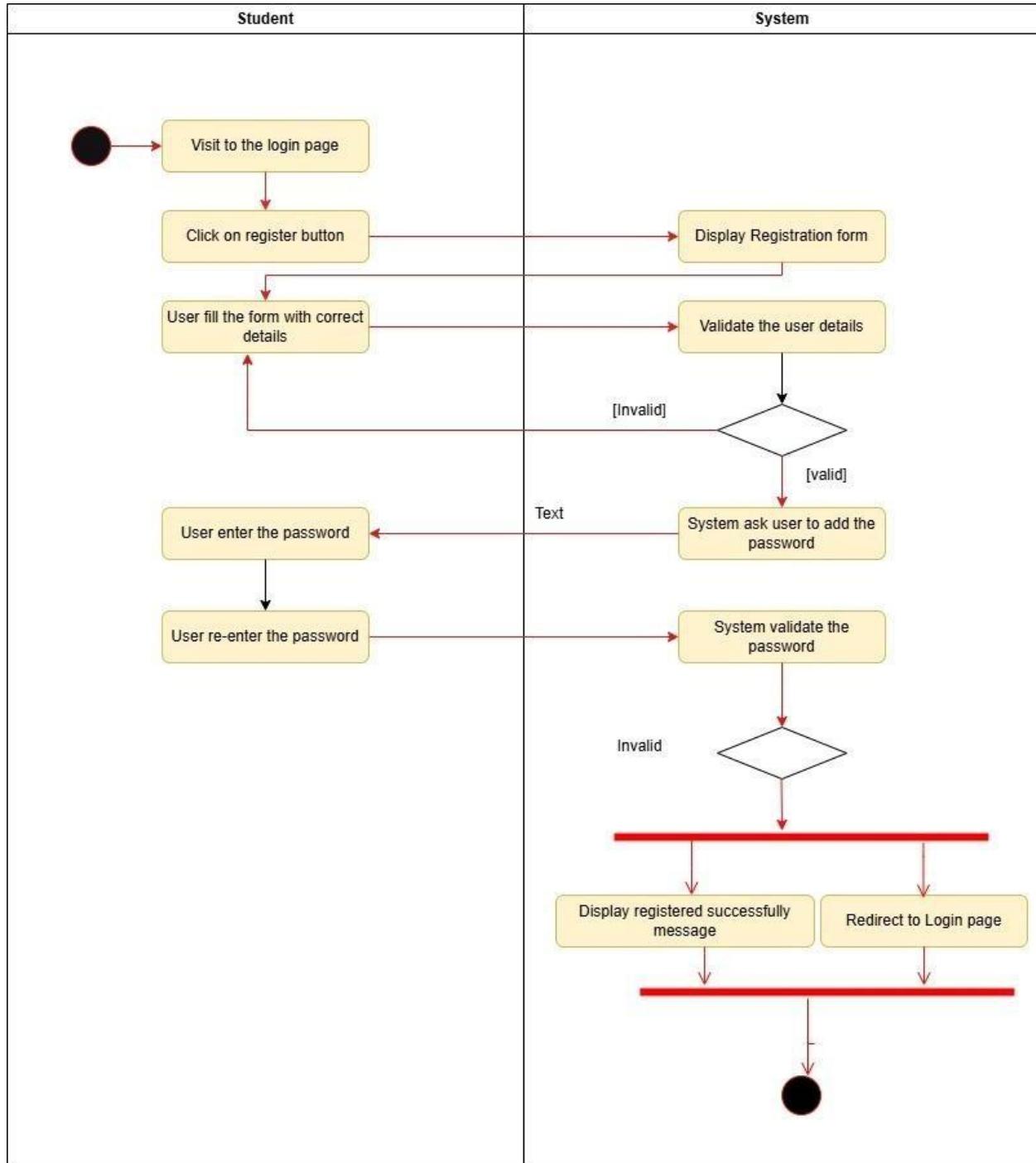




B M V Sandareka – IT22281500 Customer registration







Question 09

