Assignment 2 Cover Sheet

CASE STUDY NAME	Hotel Reservation System for Tourists
PROJECT ID	MLB_06.01_03

Group Details:

	Student Registration Number	Student Name
1	IT23257504	Harindu Weligepola
2	IT23265974	Danuja Liyanage
3	IT23268180	Dilshan Mahavithana
4	IT23256446	Mohammed Ruhaim
5	IT23257436	Wishwa Ekanayake

Assignment 2 Certify Sheet

I hereby certify,

☑   The attached is my own work and no further changes will be made.

☑   I have contributed in this assignment to the best of my ability.

And I understand,

☑   I may be subject to student discipline processes in the event of an act of academic misconduct by me including an act of plagiarism or cheating.
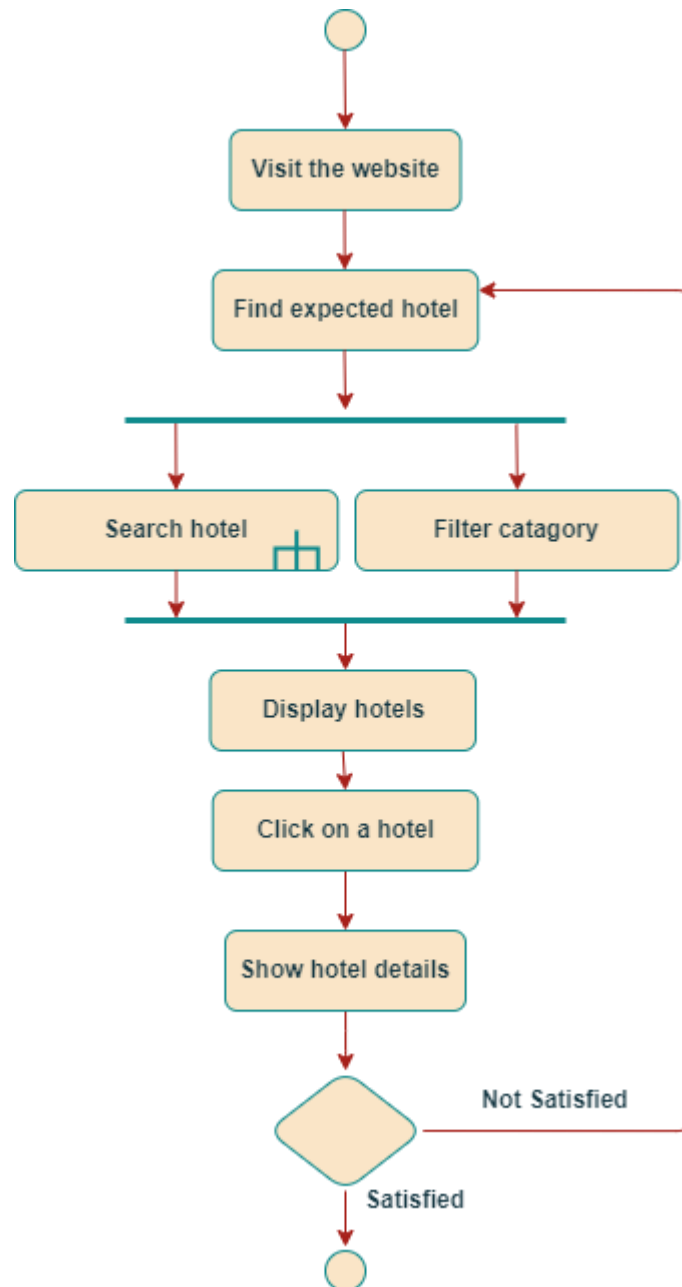
Student Details:

Student Name	Student Registration Number	Date	Signature
Harindu Weligepola	IT23257504	23.04.2024	

o **Part 01 – User case scenario**

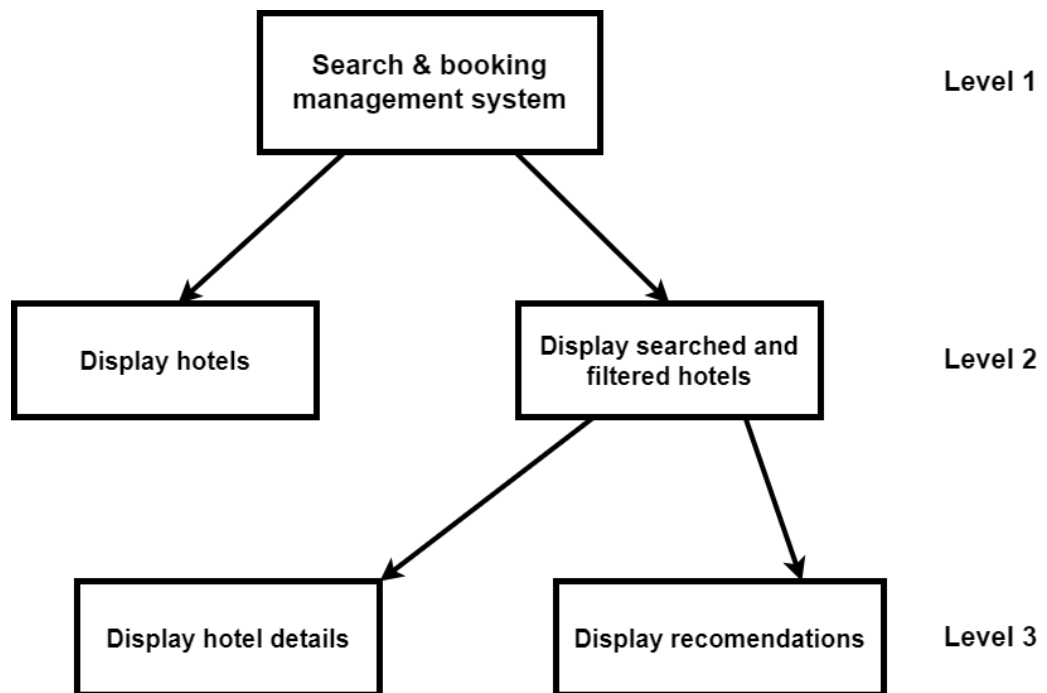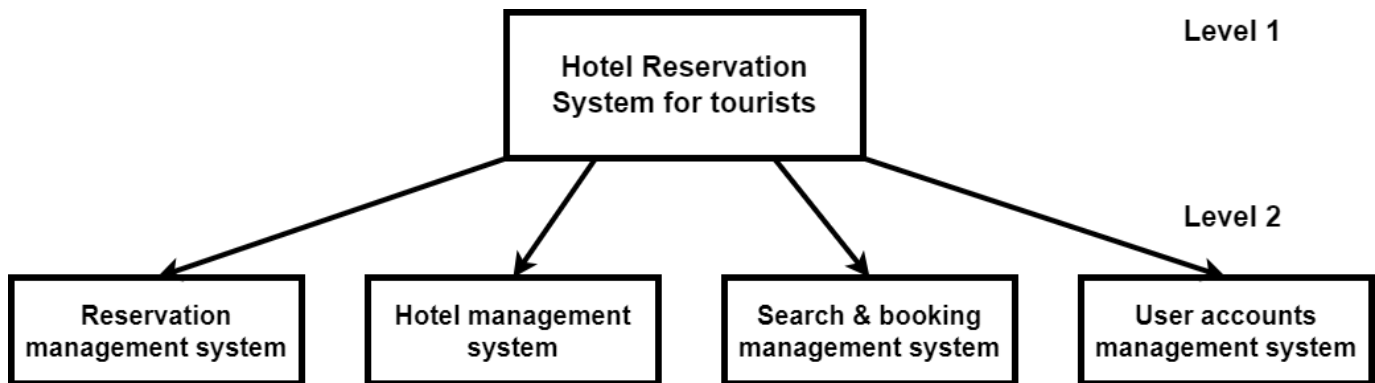| Use case ID	001	
Use case Name	Search Hotel	
Summary	The user comes to the website and searches for hotels.	
Priority	4	
Pre-conditions	Visit the website.	
Post-conditions	Visit the hotel that the user searched.	
Primary actor	Guest user/ member	
Trigger	Visit the website's home page.	
Main Scenario	**Step**	**Action**
	1	Visit the website
	2	See the home page
	3	Click the search box
	4	Type the hotel name that the user wants
	5	Click search icon
	6	Get the hotel details
Extensions	**Step**	**Branching Action**
	4a	Show suggested hotel names or autocomplete options based on the user's input.
	6a	Display alternative hotel options or refine the search criteria to broaden the results.
	6b	Provide filter and sorting options for the user to refine their search results according to their preferences.
	6c	Offer the user the option to navigate to the detailed page of the specific hotel they are interested in from the search results.

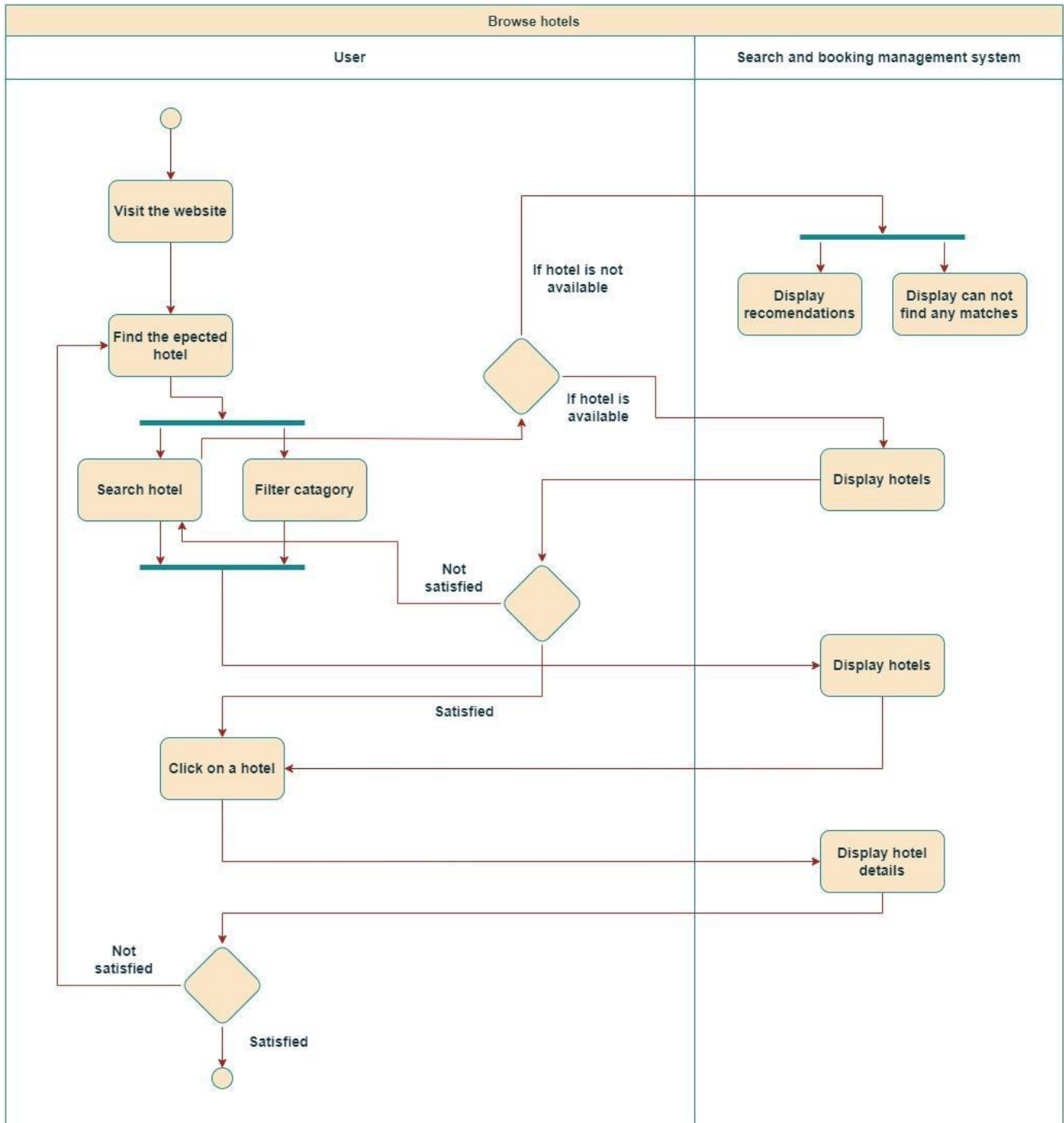# 1. Activity diagram without partitioning

- **Browse hotels.**

- **Search hotels.**

o **Part 02 – Subsystems**

```
                    ┌─────────────────────┐
                    │  Hotel Reservation  │      Level 1
                    │ System for tourists │
                    └─────────────────────┘
```



```
                    ┌─────────────────────┐
                    │  Search & booking   │      Level 1
                    │ management system   │
                    └─────────────────────┘
```

o **Activity diagram with partitioning**

Assignment 2 Certify Sheet

I hereby certify,

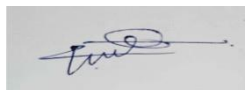| ✎ | The attached is my own work and no further changes will be made. |

| ✎ | I have contributed in this assignment to the best of my ability. |

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Student Details:

Student Name	Student Registration Number	Date	Signature
Mohammed Ruhaim	IT23256446	2024.04.21	

o **Part 01 – User case scenario**

Use case ID	008
Use case Name	Cancel reservation
Summary	The user can cancel their reservation.
Priority	5
Pre-conditions	Visit the website and go to my account page.
Post-conditions	Get your money back.
Primary actor	Member
Trigger	View my account page.

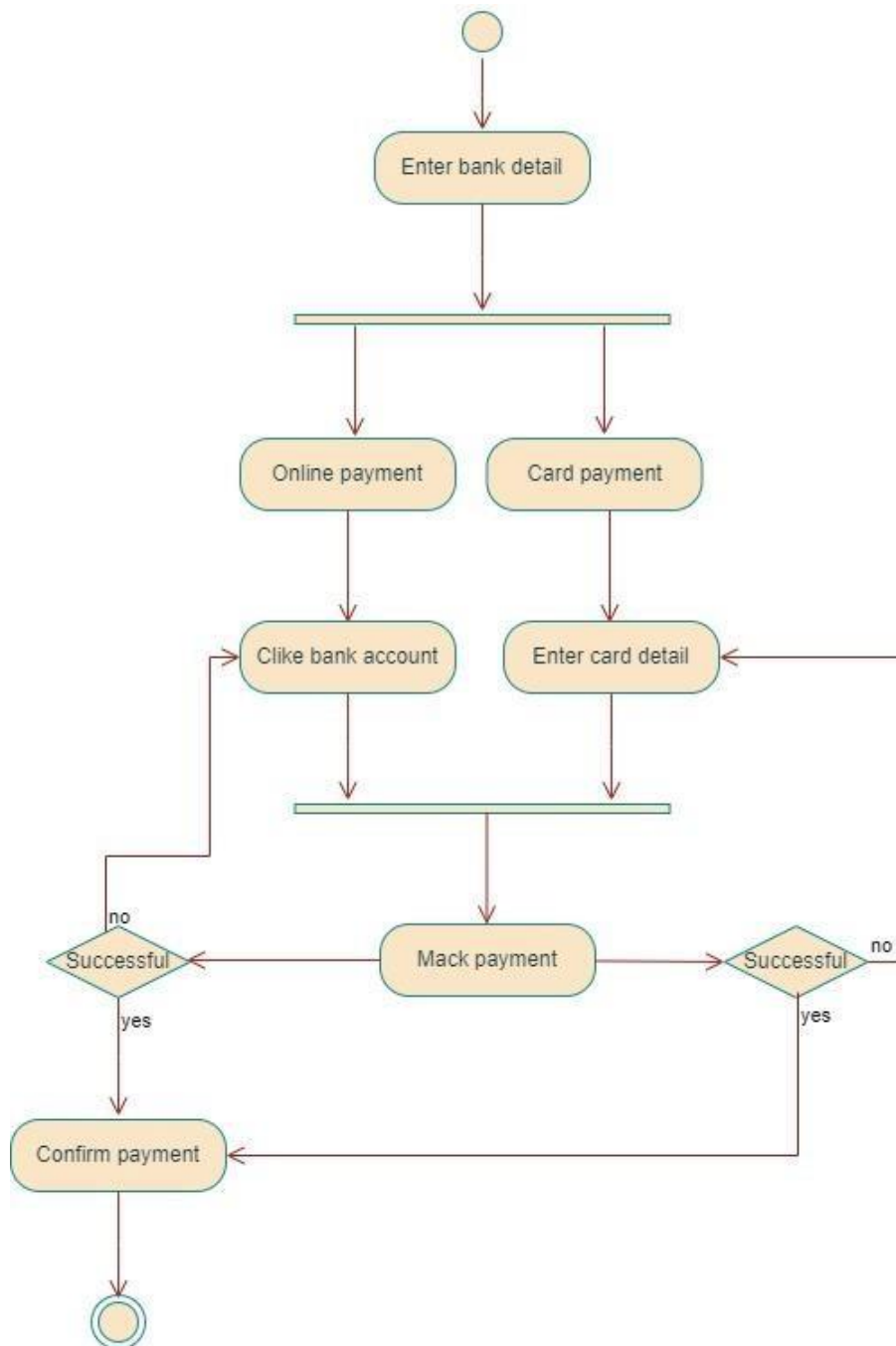| Main Scenario	Step	Action
	1	Visit the home page and view my account page.
	2	Click my reservations
	3	View reservations.
	4	Click the reservation
	5	Click update reservation
	6	Click the cancel reservation button
	7	Click confirm button
	8	Put the bank account details number in the "Enter bank details" section

Extensions	Step	Branching Action
	7a	If the reservation is non-refundable, inform the user about the terms and conditions associated with it and provide options for any available credits or alternative arrangements.
	7b	Display a confirmation message once the cancellation process is completed successfully, indicating that the reservation has been canceled and the refund process initiated.
	8a	If the bank account details provided by the user are found to be invalid, prompt them to re-enter the information or provide an alternative refund method.

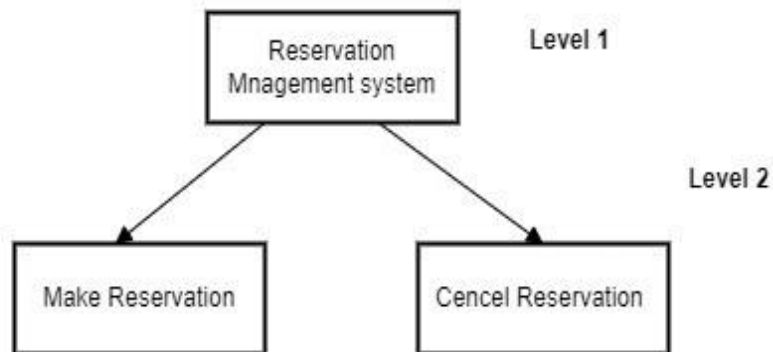## 1. <u>Activity diagram without partition</u>

- **Cancel Reservation**

- **Enter bank detail**

o **Part 02-Subsystem**

o **Activity diagram with partitioning**

Assignment 2 Certify Sheet

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Student Details:

Student Name	Student Registration Number	Date	Signature
Mahavithana PVD	IT23268180	28/04/2024	

o Part 01 – User case scenario

Use case ID	009
Use case Name	Manage hotels
Summary	The user can add, update, and delete hotel details.
Priority	5
Pre-conditions	Visit the website and log in as admin.
Post-conditions	Manage hotels.
Primary actor	Admin
Trigger	View the admin page.

Main Scenario	Step	Action
	1	Visit the administration page.
	2	Click on login
	3	Enter credentials.
	4	Click sign in
	5	Click on Edit hotels
	6	Add, update, remove hotels
Extensions	**Step**	**Branching Action**
	4a	Showing an error message in such cases is essential for providing feedback to the admin and guiding them to enter the correct credentials.

	5b	Once the error message is displayed, prompting the admin to enter the correct credentials ensures that the login process can proceed smoothly after an initial failure.

1. Activity diagram without partitioning

• **Manage Hotel (Add hotel)**
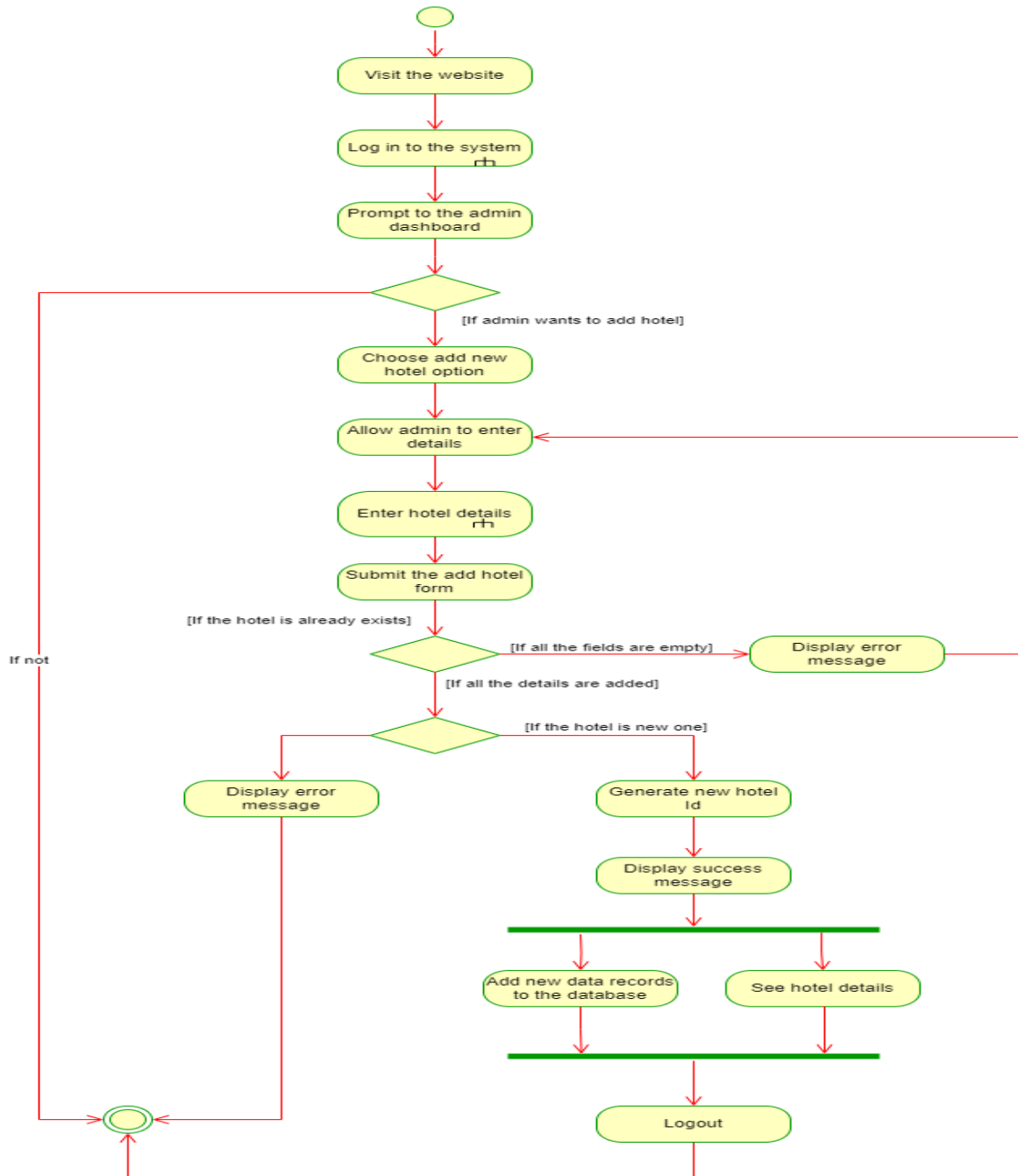
- **Search hotels.**

- **Log in.**

o <u>**Part 02 – Subsystems**</u>

```
                        ┌──────────────────────┐                    Level 1
                        │  Hotel Reservation   │
                        │  System for tourists │
                        └──────────────────────┘
                                                                    Level 2
   ┌──────────────┐   ┌──────────────┐   ┌──────────────┐   ┌──────────────┐
   │ Reservation  │   │Hotel management│ │Search & booking│ │User accounts │
   │management    │   │   system     │   │management    │   │management    │
   │ system       │   │              │   │ system       │   │ system       │
   └──────────────┘   └──────────────┘   └──────────────┘   └──────────────┘
```

```
                        ┌──────────────────────┐
                        │  Hotel Management    │
                        │  System              │
                        └──────────────────────┘
                                                                    Level 1

        ┌──────────────────┐              ┌──────────────────┐
        │ Log in as Admin  │              │   Add Hotel      │
        └──────────────────┘              └──────────────────┘
                                                                    Level 2

                        ┌──────────────────┐      ┌──────────────────────┐
                        │ Add hotel details│      │ Finalize the add and │
                        │ and check them   │      │ get notified as      │
                        │                  │      │ success              │
                        └──────────────────┘      └──────────────────────┘
                                                                    Level 3
```

o <u>Activity diagram with partitioning</u>

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Student Details:

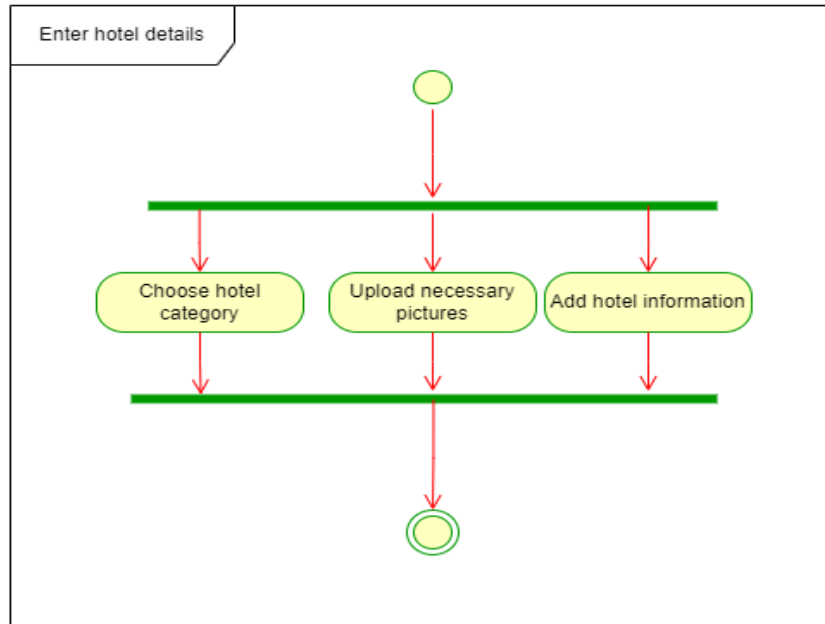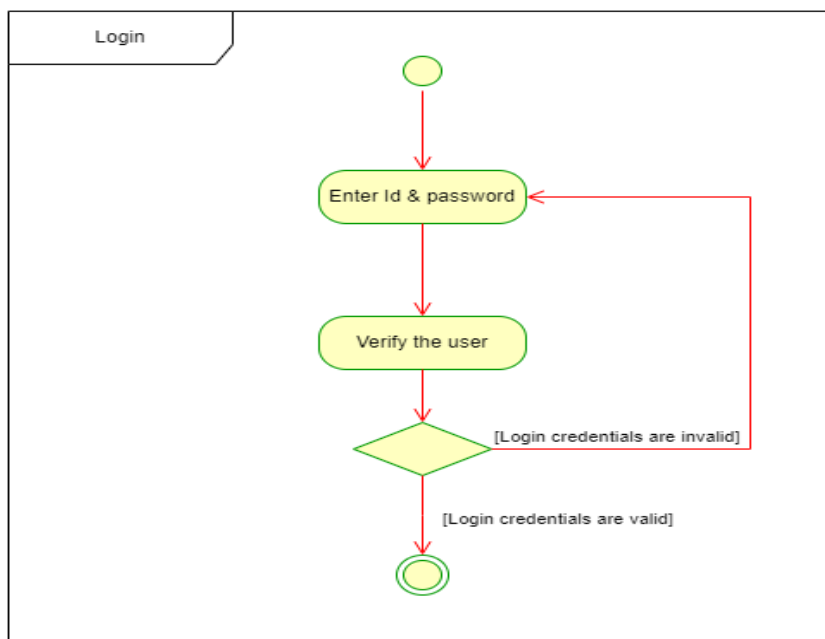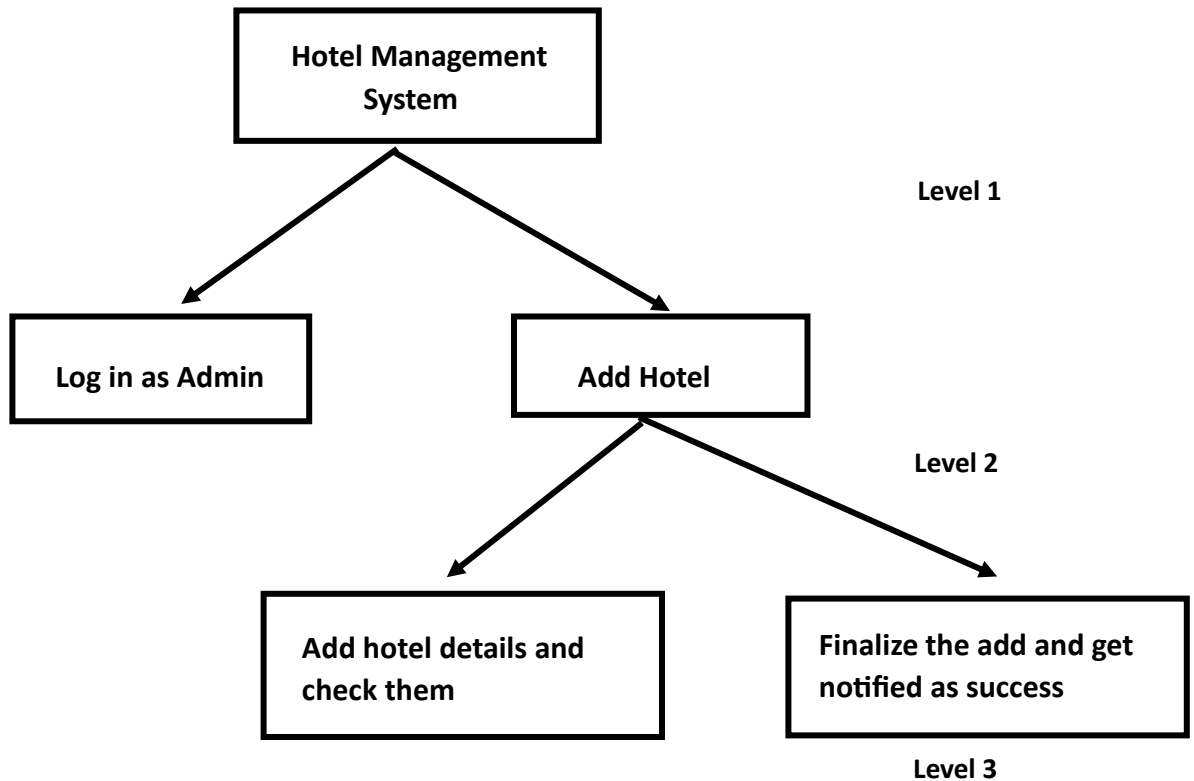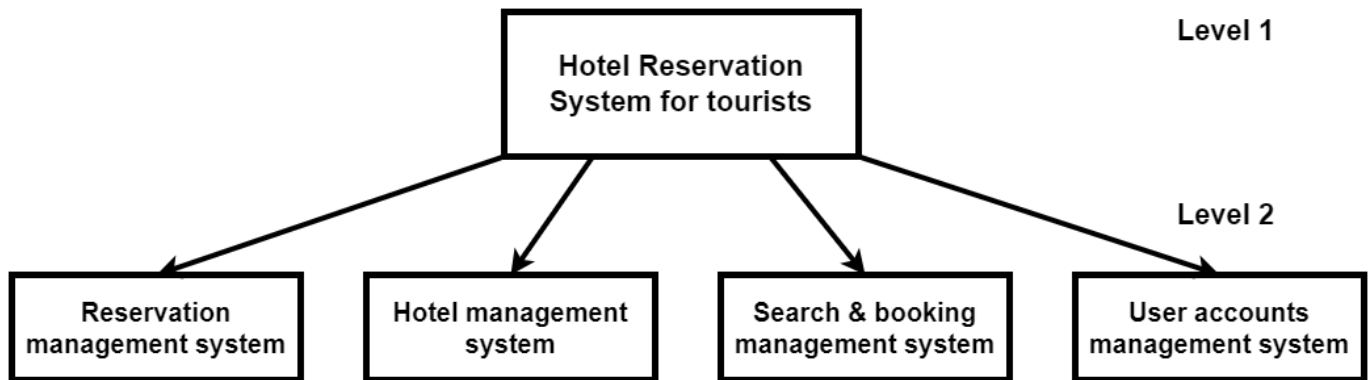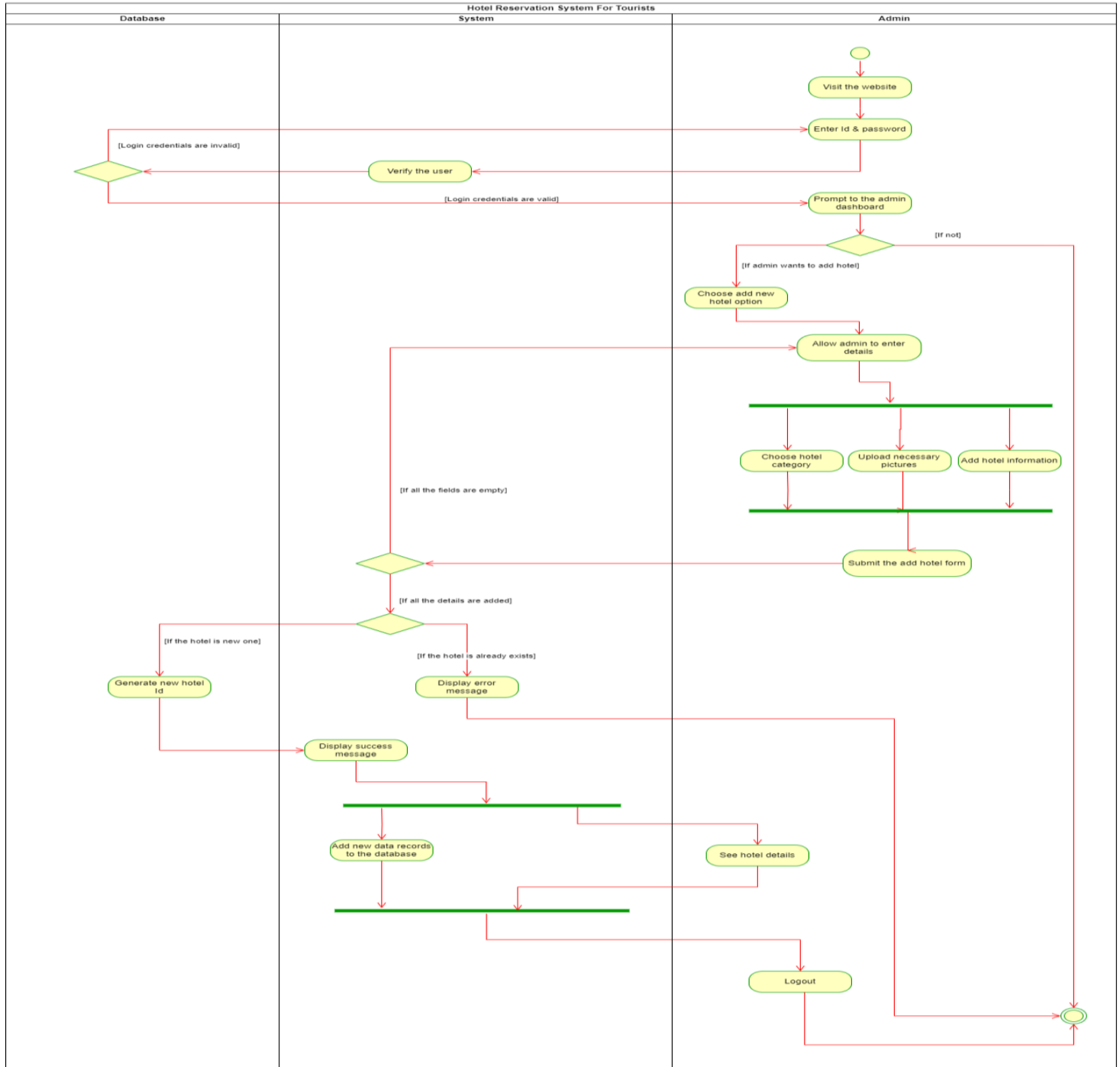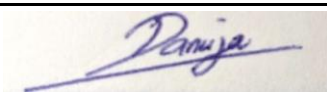| Student Name	Student Registration Number	Date	Signature
Danuja Liyanage	IT23265974	25.04.2024	

o **Part 01 – User case scenario**

Use case ID	002	
Use case Name	Create Account	
Summary	A new user registers and creates an account in the system..	
Priority	5	
Pre-conditions	Visit the Sign Up Page	
Post-conditions	User account successfully created, Login with credentials	
Primary actor	New User	
Trigger	User accesses the registration page.	
Main Scenario	Step	Action
	1	Visit the website
	2	User navigates to the registration page.
	3	User fills in the required details (name, email, password, etc.).
	4	User submits the registration form
	5	System verifies the input
	6	Account is successfully created.
Extensions	Step	Branching Action
	5a	If the email provided is already in use, prompt the user to use a different email.
	5b	If the password does not meet the requirements, notify the user and prompt for a stronger password.

o **<u>Activity diagram without partitioning</u>**
  - **Create account**
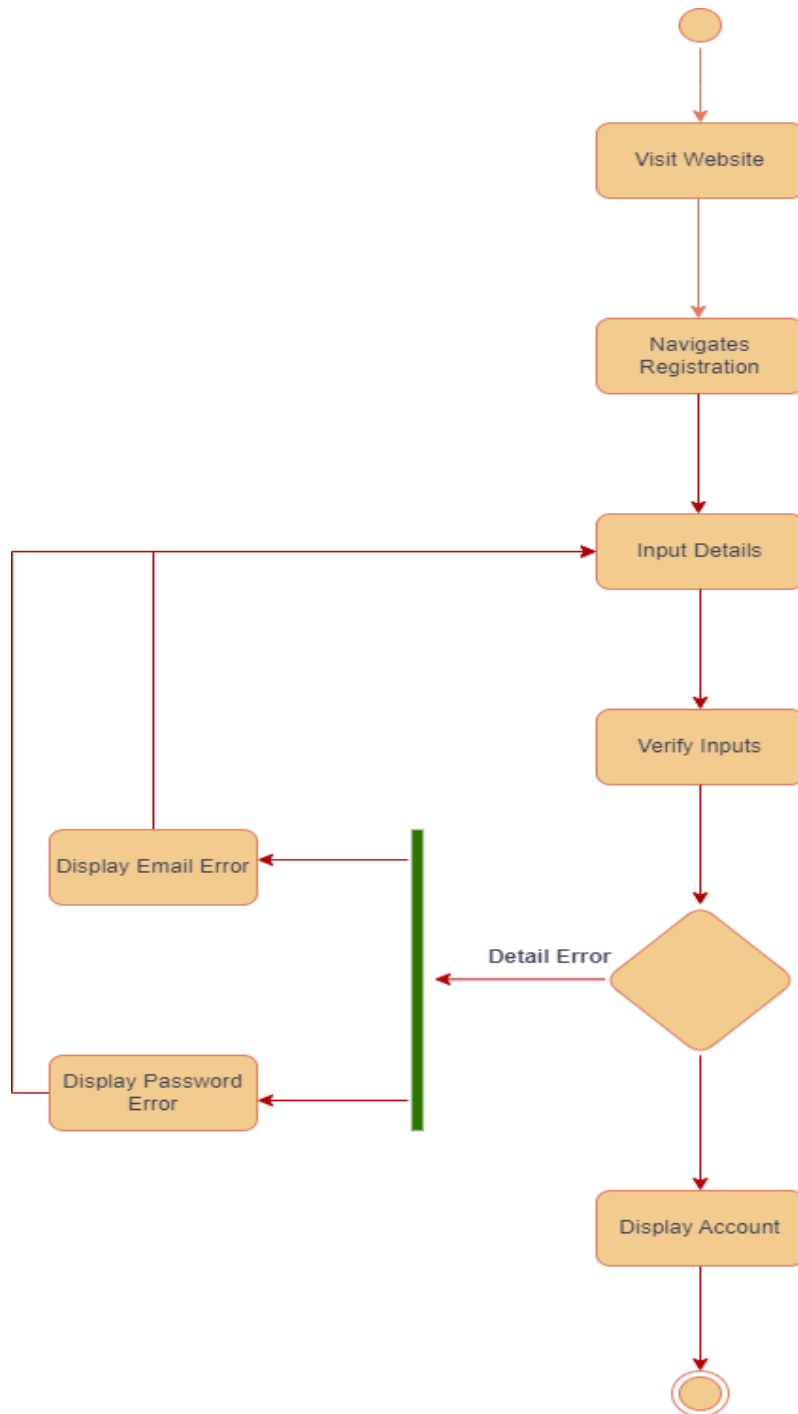
o **Part 02 – Subsystems**

LEVEL 1

Hotel Reservation System For Tourists

LEVEL 2

Reservation Management System

Hotel Management System

Search & Booking Management System

User Account Creation & Management System

User Account Creation & Management System

LEVEL 1

Account Creation System

Account Management System
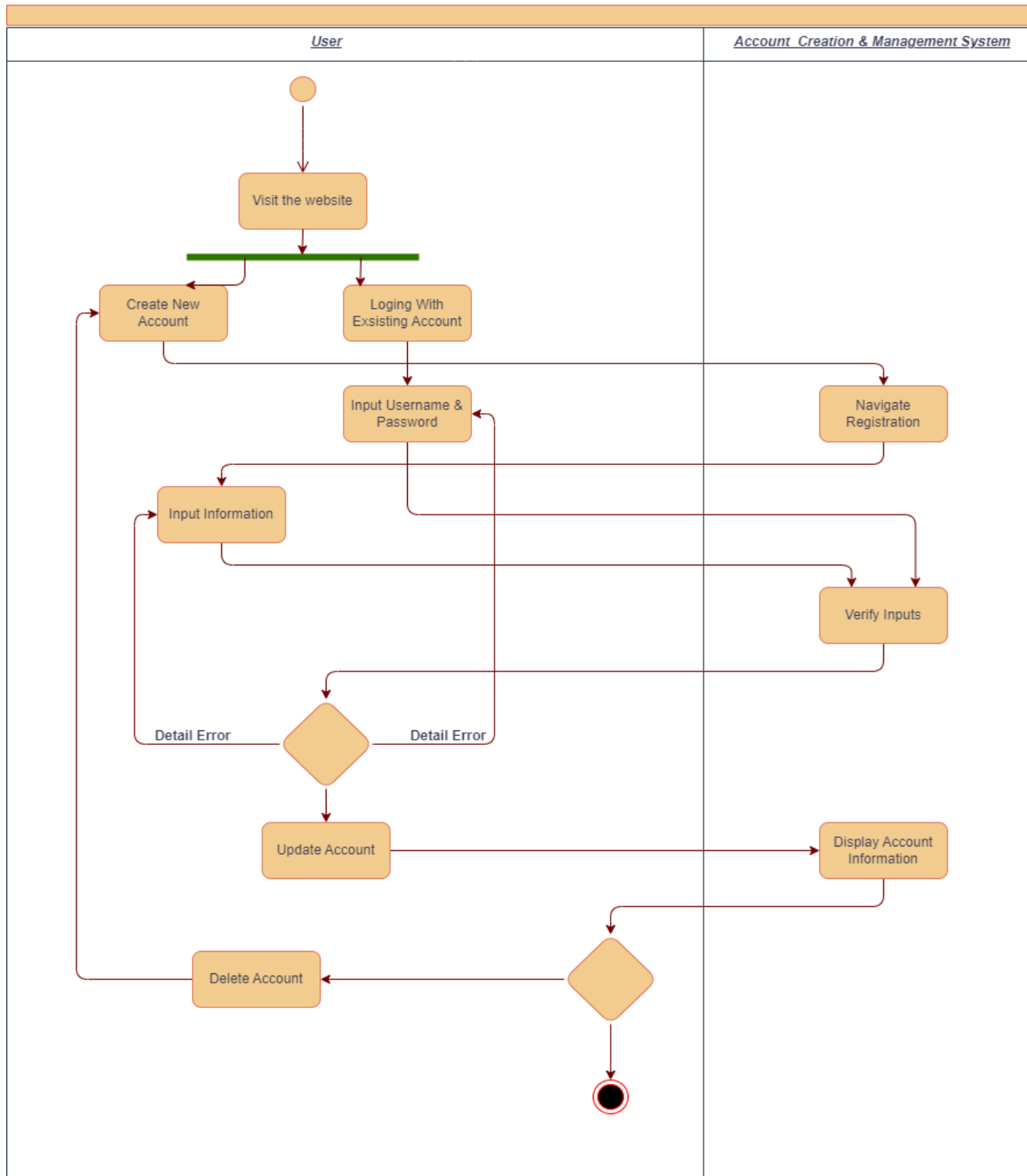
LEVEL 2

User Registration

Account Verification

Account Creation

Account Information Display

Account Update

Delete Account

Activity diagram without partitioning

Assignment 2 Certify Sheet

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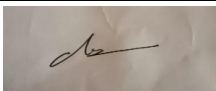
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Student Details:

Student Name	Student Registration Number	Date	Signature
EKANAYAKE E.M.W.S	IT23257436	2024.04.27	

o **Part 01 – User case scenario**

Use case ID	005	
Use case Name	My account	
Summary	The user can see the user's account and update account details or delete the account.	
Priority	4	
Pre-conditions	Visit the website.	
Post-conditions	Manage account	
Primary actor	Member	
Trigger	See the website's home page.	
Main Scenario	**Step**	**Action**
	1	Visit the home page
	2	Click on My Account button
	3	View user account
	4	Click edit account
	5	Click the Update button
	6	Click logout button
Extensions	**Step**	**Branching Action**
	4a	If the user wants to update details the user can update the details or delete the account.

1. Activity diagram without partition

• **My Account**

- **LOG IN**

```
        ( )
         |
         v
 ┌──────────────────┐
 │ Click the Login  │
 │     button       │
 └──────────────────┘
         |
         v
        < >──────────────────────────────┐
         |                                │
         v                                │
 ┌──────────────────┐                     │
 │ Enter the        │          ┌──────────────────┐
 │ Credentials      │          │ Invalid          │
 └──────────────────┘          │ credentials MSG  │
         |                     └──────────────────┘
         v                                ^
 ┌──────────────────┐                     │
 │ Validate the     │                     │
 │ Credentials      │                     │
 └──────────────────┘                     │
         |                                │
         v              invalid           │
        < >───────────────────────────────┘
         |
         | valid
         v
        (⊙)
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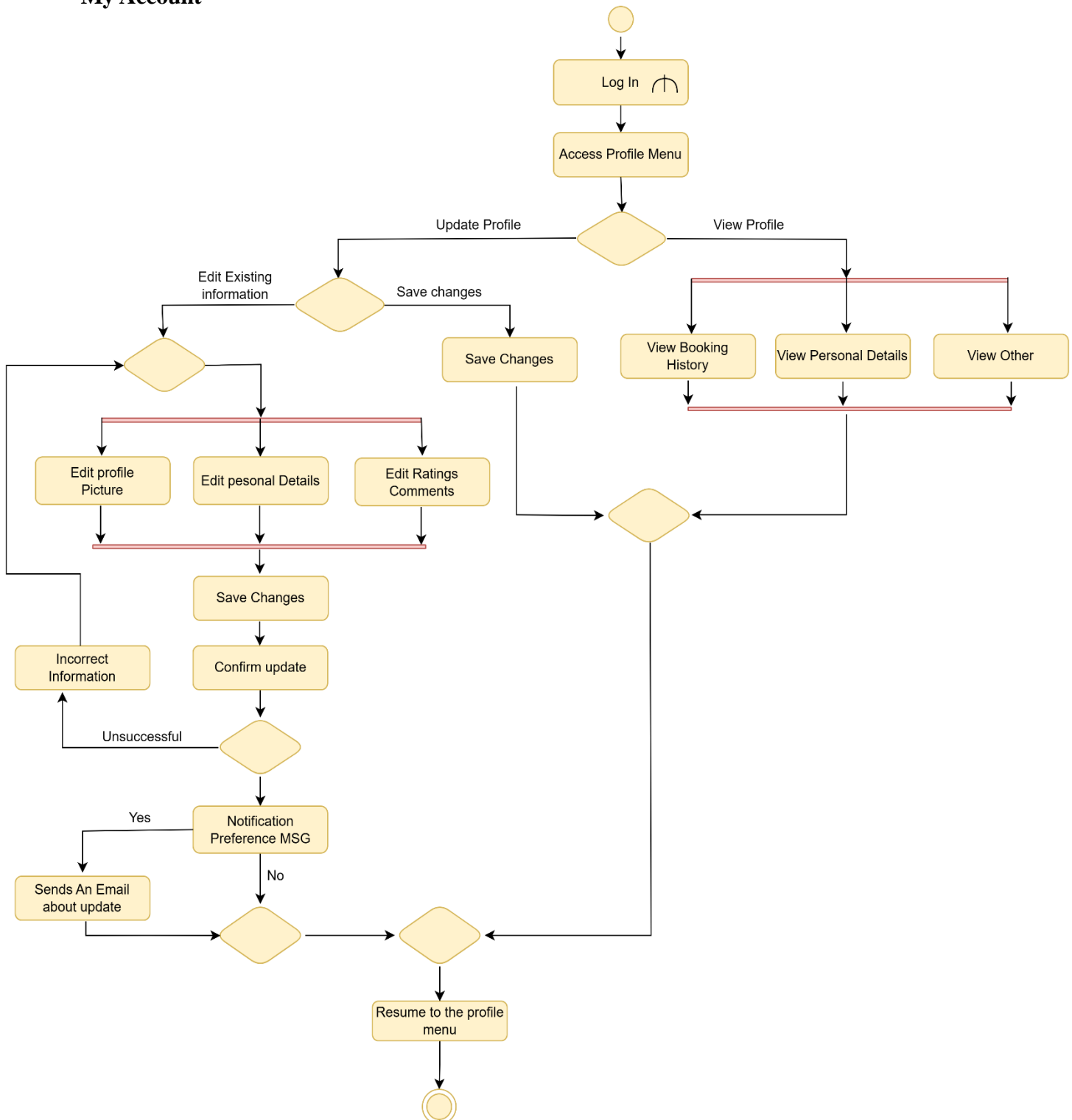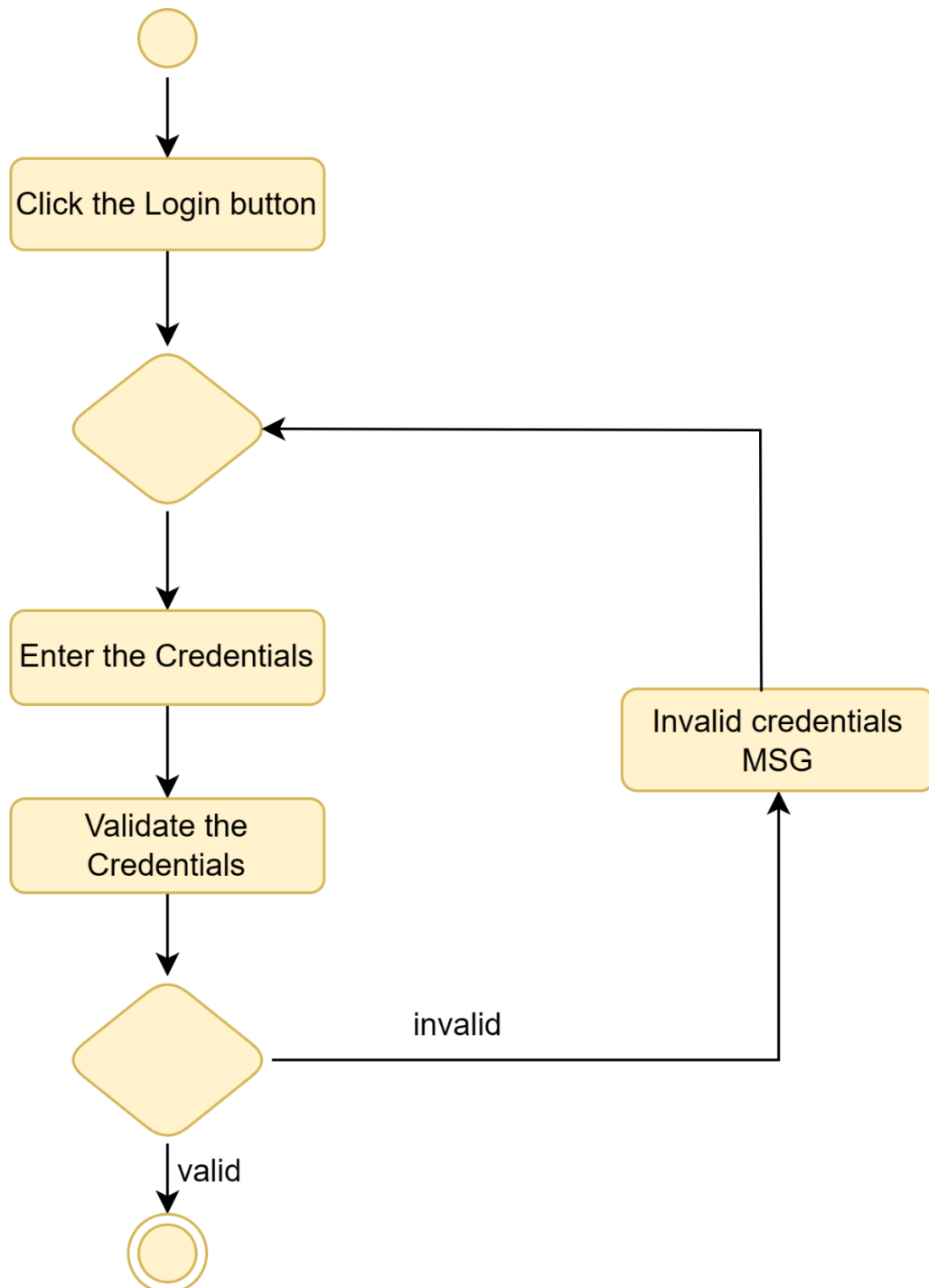
o **Part 02-Subsystem**
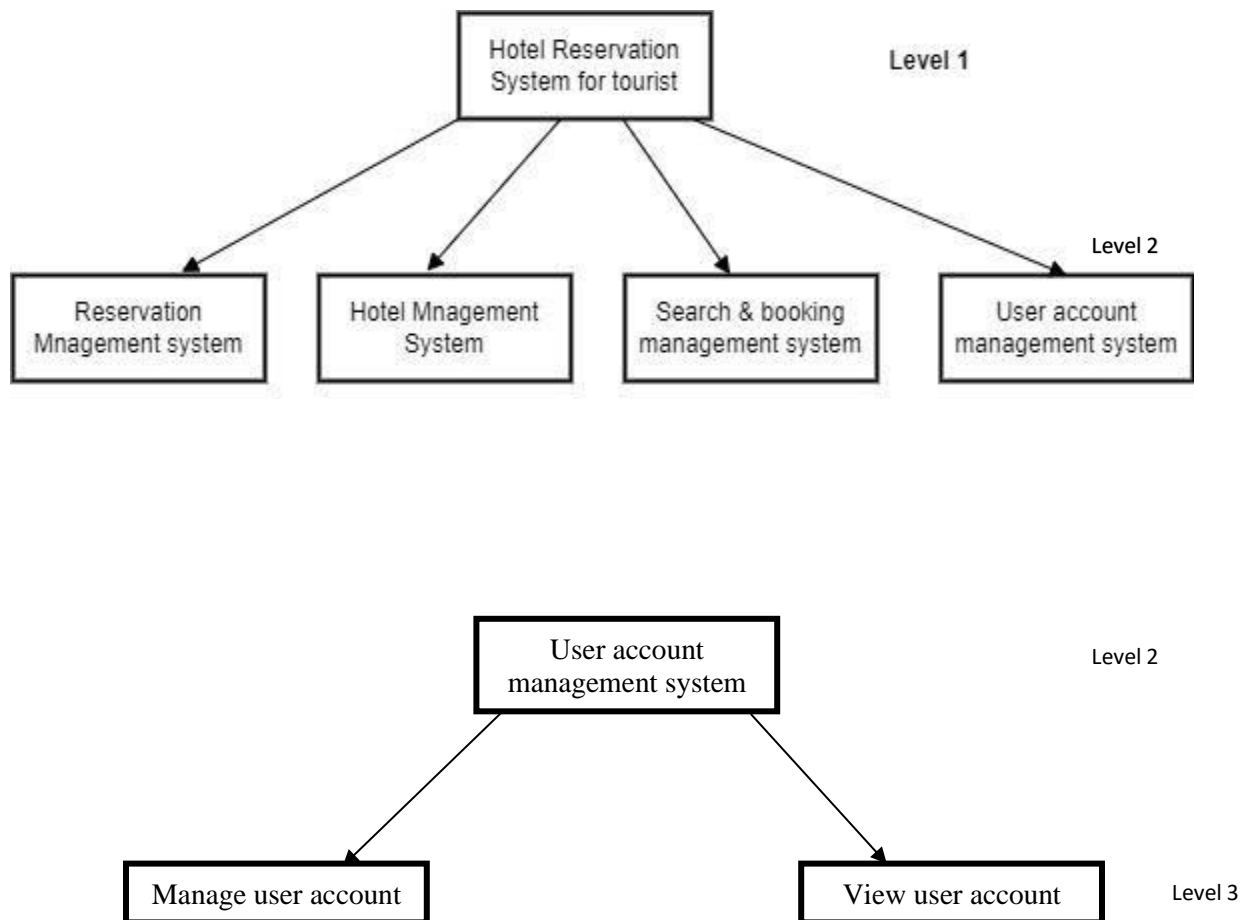
o **Activity Diagram with Partitioning**

My Account	
User account management system	**Hotel management system**

Log In

Access Profile Menu

Update Profile

View Profile

Edit Existing information

Save changes

Save Changes

View Booking History

View Personal Details

View Other

Edit profile Picture

Edit pesonal Details

Edit Ratings Comments

Save Changes

Incorrect Information

Confirm update

Notification Preference MSG

Sends An Email about update

Resume to the profile menu