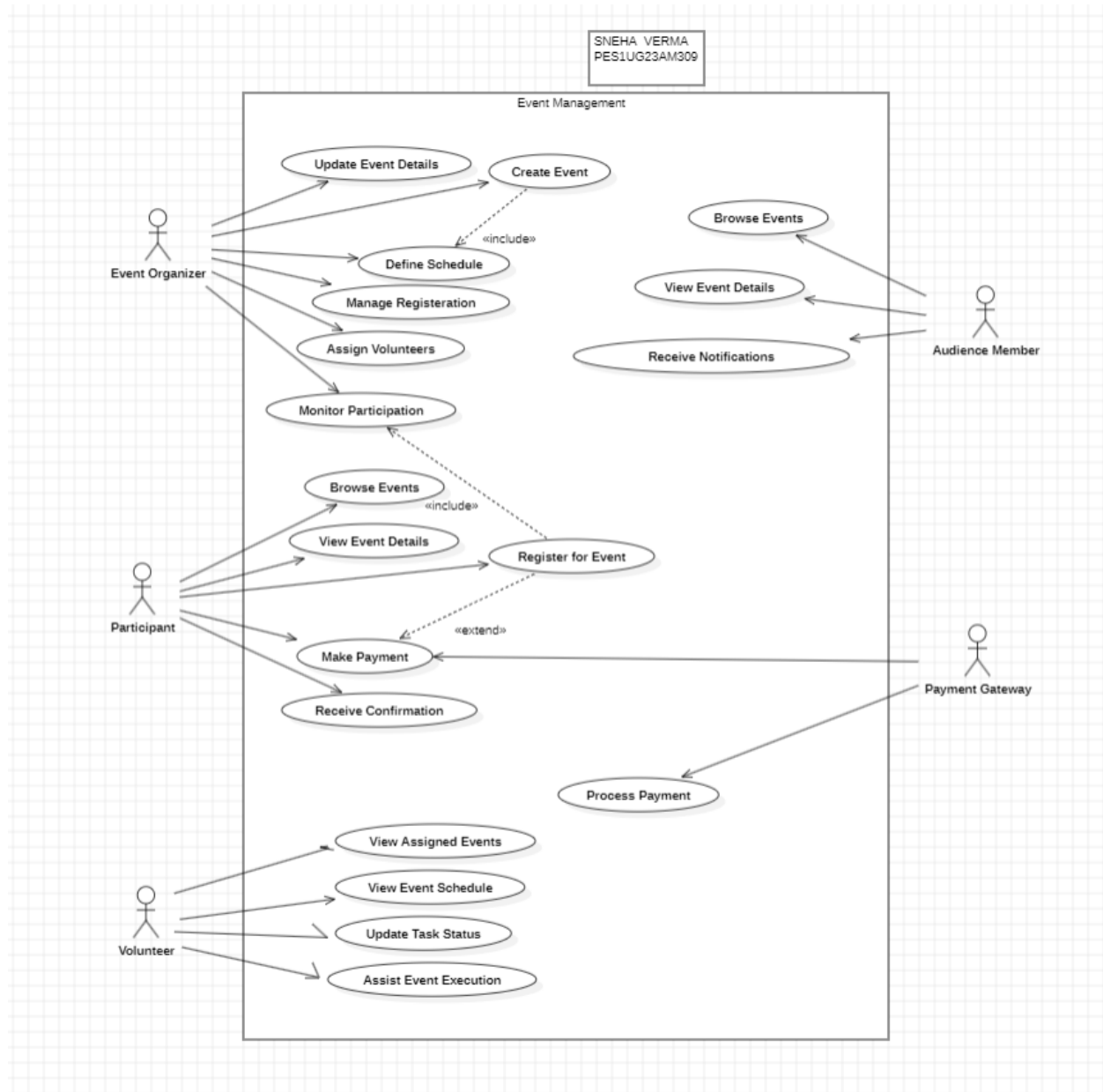


- Name: SNEHA VERMA
- SRN: PES1UG23AM309
- Lab: 01

CASE STUDY 1



b. Major Use Cases and Specifications

Major Use Case 1: Create Event

Use Case ID

UC-01

Use Case Name

Create Event

Primary Actor

Event Organizer

Supporting Actors

Volunteer (later), System

Description

Allows the event organizer to create and configure a new event by defining its details such as date, venue, capacity, and registration type.

Preconditions

- Organizer is authenticated
- System is operational

Postconditions

- Event is successfully created
- Event is available for browsing and registration

Main Flow

1. Organizer selects **Create Event**
2. System prompts for event details
3. Organizer enters event name, date, time, venue, capacity, and fee
4. Organizer defines event schedule
5. System validates inputs
6. Event is saved and published

Alternate Flow

- **A1:** Invalid details entered → system requests correction
- **A2:** Organizer cancels → event is not created

Includes

- Define Event Details
 - Validate Event Information
-
-

Major Use Case 2: Register for Event

Use Case ID

UC-02

Use Case Name

Register for Event

Primary Actor

Participant

Supporting Actors

Payment Gateway, System

Description

Allows participants to register for an event, with conditional payment if the event is paid.

Preconditions

- Event exists
- Registration is open

Postconditions

- Registration is confirmed
- Payment status updated (if applicable)

Main Flow

1. Participant browses events
2. Participant selects an event
3. System displays event details

4. Participant clicks **Register**
5. System validates seat availability
6. If free → registration confirmed
7. If paid → proceed to payment
8. Payment is processed
9. Registration confirmation sent

Alternate Flow

- **A1:** No seats available → registration denied
- **A2:** Payment fails → registration cancelled

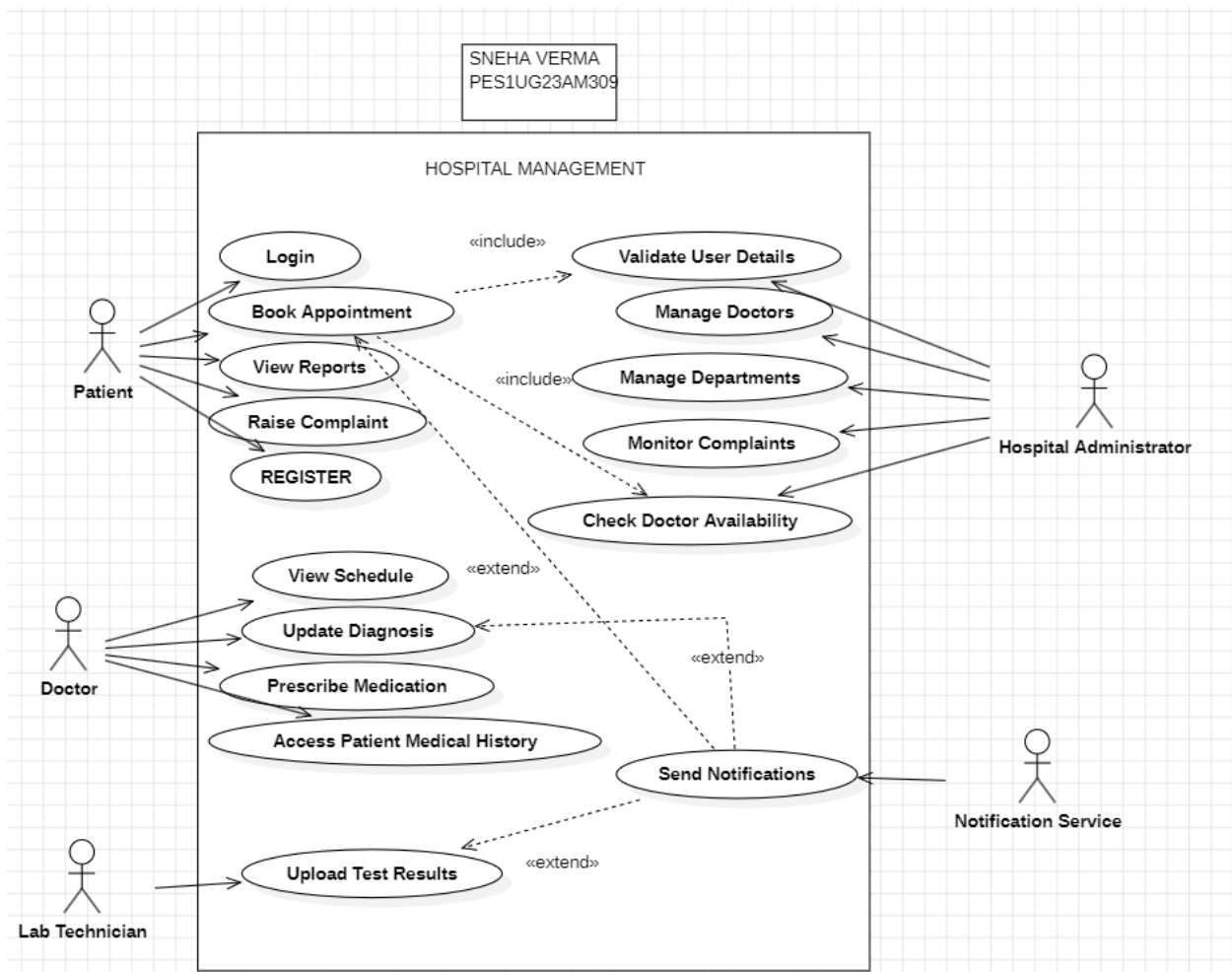
Includes

- Validate Event Availability

Extends

- Make Payment (*only for paid events*)

CASE STUDY 2:



b. Major Use Cases and Specifications

Major Use Case 1: Book Appointment

Use Case ID

UC-01

Use Case Name

Book Appointment

Primary Actor

Patient

Supporting Actors

Doctor, Notification Service, System

Description

Allows patients to book an appointment with a doctor based on specialization, availability, and preferred time slot.

Preconditions

- Patient is logged in
 - Doctor schedules are available
-

Postconditions

- Appointment is confirmed
 - Doctor schedule is updated
 - Notification is sent to patient
-

Main Flow

1. Patient searches for doctor
 2. System displays list of available doctors
 3. Patient selects doctor and time slot
 4. System checks doctor availability
 5. Appointment is booked
 6. System sends confirmation notification
-

Alternate Flows

- **A1:** Slot unavailable → patient selects another slot
 - **A2:** Patient cancels → appointment not booked
-

Includes

- Check Doctor Availability

Extends

- Reschedule Appointment
 - Cancel Appointment
 - Send Notification
-
-

Major Use Case 2: View Medical Reports

Use Case ID

UC-02

Use Case Name

View Medical Reports

Primary Actor

Patient

Supporting Actors

Lab Technician, Notification Service, System

Description

Allows patients to securely view and download their medical reports uploaded by lab technicians.

Preconditions

- Patient is logged in
 - Reports have been uploaded
-

Postconditions

- Patient accesses reports successfully
-

Main Flow

1. Lab technician uploads test results
 2. System links report to patient profile
 3. System sends report availability notification
 4. Patient logs in
 5. Patient views and downloads medical report
-

Alternate Flows

- **A1:** Report not available → system displays message
 - **A2:** Unauthorized access → access denied
-

Includes

- Link Report to Patient Profile

Extends

- Send Report Availability Notification