

UML Diagrams (Part-A)

For
SenioCare

Version 1.0

Prepared by

Group ID - 24

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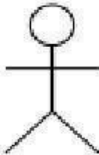

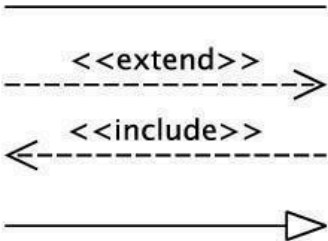
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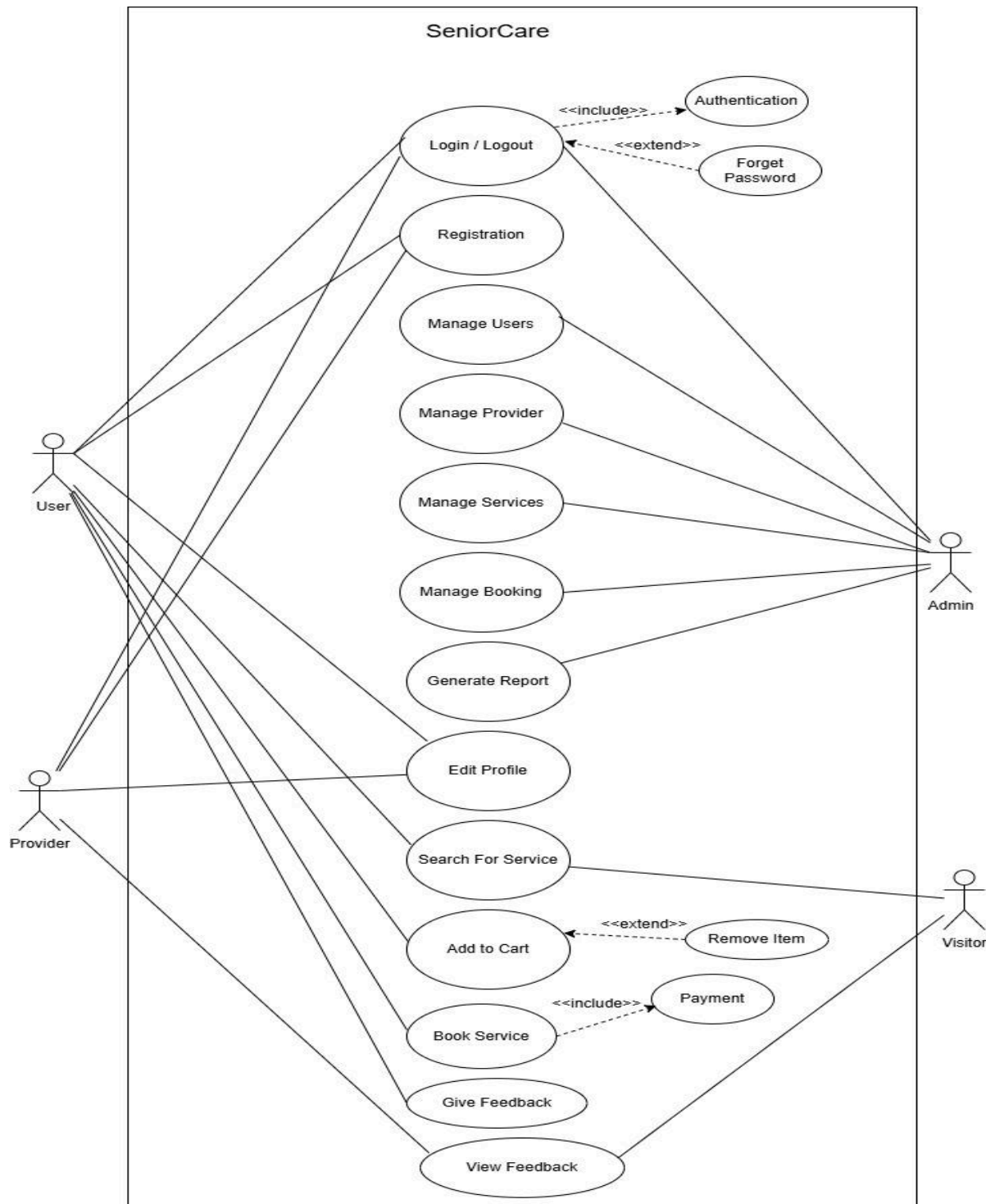
**Instructor: JayPrakash Lalchandani
Course: Software Engineering
Date :06-04-2025**

1. Use Case Diagrams

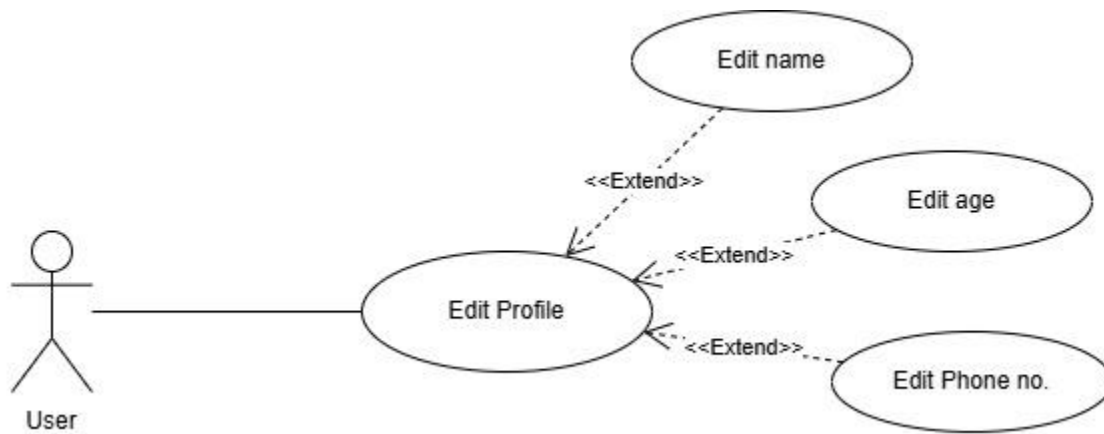
- A Use case diagram is used to represent the specific behavior of a system.
- Use case diagram describe the high-level function and scope of the system.

Symbol	Reference Name
	Actor
	Use case
	Relationship

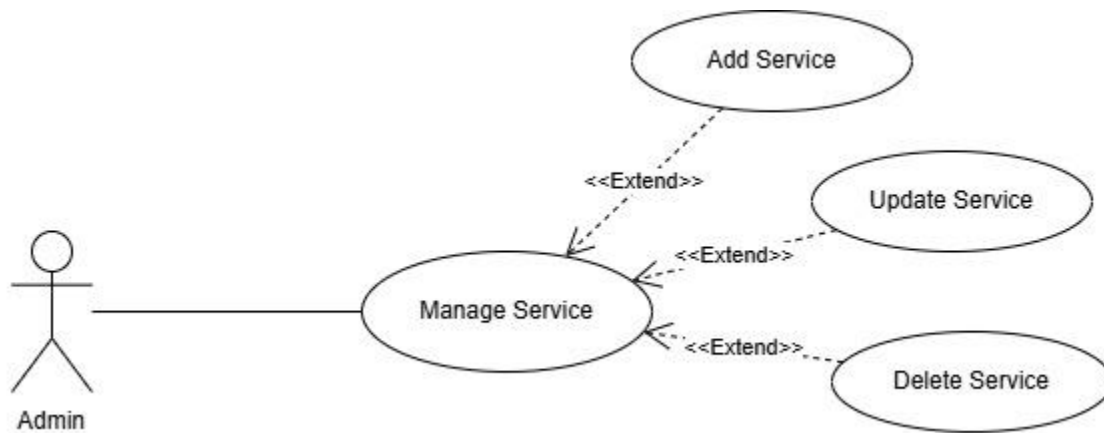
Top Level Use case diagram



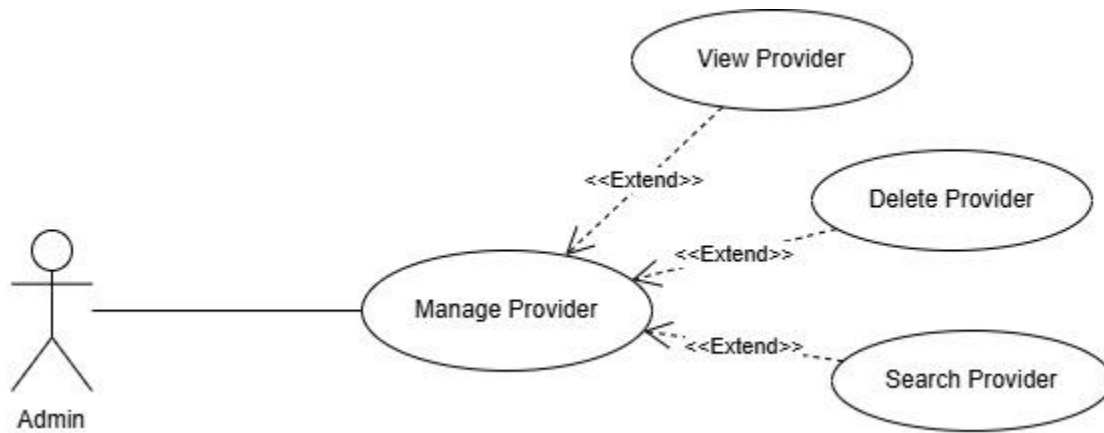
Profile Management :-



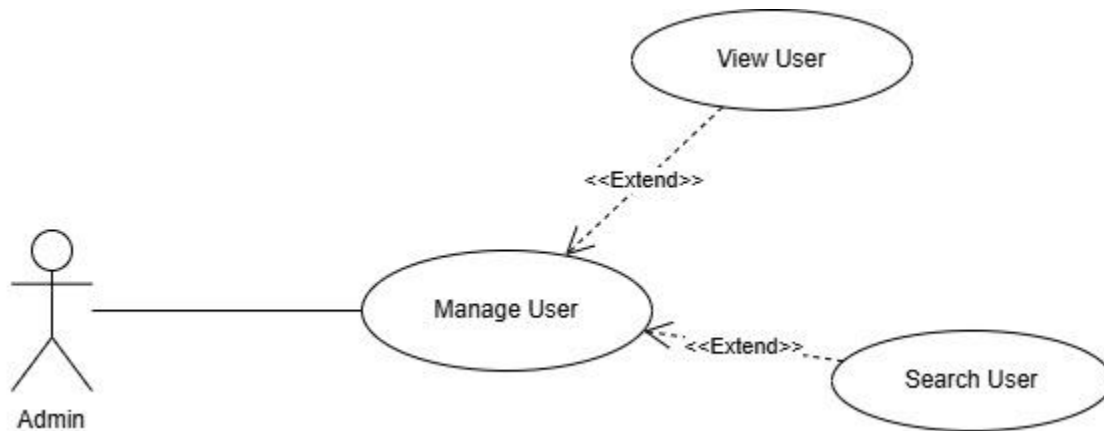
Manage Service :-



Manage Provider :-



Manage User :-



2. Textual Use Cases

Use Case: Login / Logout

Primary Actor: User, Admin, Provider

Secondary Actor: System

Scope: Authentication System

Description: Allows actors to securely log in and log out of the system.

Main Success Scenario (Basic Flow):

Actor navigates to the login page.

Enters valid username and password.

System verifies credentials.

Access is granted.

Actor performs tasks.

Actor clicks logout.

Session is terminated, and user returns to login page.

Alternative Flows:

Invalid credentials → Error message.

Session timeout → Forced logout.

Account locked after multiple failed attempts.

Use Case: Registration

Primary Actor: User, Provider

Secondary Actor: System

Scope: User Management System

Description: Enables new users/providers to create an account.

Main Success Scenario (Basic Flow):

Actor opens the registration form.
Fills in personal and login details.
Submits the form.
System validates and creates an account.
Confirmation is shown.

Alternative Flows:

Duplicate email → Error message.
Weak password → Prompt for stronger one.
Missing fields → Show validation errors.

Use Case: Manage Users

Primary Actor: Admin

Secondary Actor: System

Scope: Admin Panel

Description: Admin can add, edit, or remove users from the system.

Main Success Scenario (Basic Flow):

Admin selects "Manage Users".
Views list of users.
Performs actions: add, update, or delete user.
System validates and stores changes.
Success message shown.

Alternative Flows:

User not found.
Invalid input → Show validation errors.

Use Case: Manage Provider

Primary Actor: Admin

Secondary Actor: System

Scope: Admin Panel

Description: Admin manages provider records in the system.

Main Success Scenario (Basic Flow):

Admin accesses "Manage Provider".

Views current provider list.

Adds/updates/removes providers.

System confirms and updates records.

Alternative Flows:

Invalid provider data.

Duplicate provider entry.

Use Case: Manage Services

Primary Actor: Admin

Secondary Actor: System

Scope: Admin Panel

Description: Admin can maintain the list of available services.

Main Success Scenario (Basic Flow):

Admin opens "Manage Services".

Views list of services.

Adds, edits, or deletes a service.

System validates and saves the updates.

Alternative Flows:

Invalid or incomplete service data.

Duplicate service name.

Use Case: Manage Booking

Primary Actor: Admin

Secondary Actor: System

Scope: Admin Panel

Description: Admin oversees service bookings and status updates.

Main Success Scenario (Basic Flow):

- Admin selects "Manage Booking".
- Views booking details.
- Updates or cancels bookings.
- System confirms and logs changes.

Alternative Flows:

- Invalid booking ID.
- Booking already canceled.

Use Case: Generate Report

Primary Actor: Admin

Secondary Actor: System

Scope: Admin Panel

Description: Allows admin to generate summary or detailed reports.

Main Success Scenario (Basic Flow):

- Admin chooses report type and duration.
- System fetches and compiles data.
- Report is displayed and available for download.

Alternative Flows:

- No data for selected period.
- Export error.

Use Case: Edit Profile

Primary Actor: User, Provider

Secondary Actor: System

Scope: User/Provider Panel

Description: Lets users or providers update their profile details.

Main Success Scenario (Basic Flow):

Actor goes to "Edit Profile".

Updates name, email, password, etc.

System validates and saves data.

Alternative Flows:

Invalid email/phone format.

Server error on update.

Use Case: Search for Service

Primary Actor: User, Visitor

Secondary Actor: System

Scope: Frontend Application

Description: Enables users/visitors to browse available services.

Main Success Scenario (Basic Flow):

Actor enters keyword or filter criteria.

System searches database.

Results are displayed.

Alternative Flows:

No matching results.

Invalid search query.

Use Case: Add to Cart

Primary Actor: User

Secondary Actor: System

Scope: Service Booking

Description: Adds a service to the user's cart.

Main Success Scenario (Basic Flow):

User clicks "Add to Cart" on a service.

System adds the item and confirms.

Alternative Flows:

Service already in cart.

Cart storage issue.

Use Case: Remove (From Cart)

Primary Actor: User

Secondary Actor: System

Scope: Service Booking

Description: Removes a selected service from the cart.

Main Success Scenario (Basic Flow):

User selects a cart item.

Clicks "Remove".

System removes the service from cart.

Alternative Flows:

Cart is empty.

Item not found in cart.

Use Case: Payment

Primary Actor: User

Secondary Actor: Payment Gateway

Scope: Service Booking

Description: Handles online service payments by users.

Main Success Scenario (Basic Flow):

User clicks "Proceed to Pay".

Chooses a payment method.

Enters details and confirms.

Payment is processed.

Confirmation shown.

Alternative Flows:

Payment failed.

Card expired.

Network issues.

Use Case: Book Service

Primary Actor: User

Secondary Actor: System

Scope: Service Booking

Description: Confirms service booking for selected service.

Main Success Scenario (Basic Flow):

User selects service and clicks "Book Now".

Chooses date/time.

System confirms and stores booking.

Alternative Flows:

Service slot unavailable.

Invalid booking details.

Use Case: Give Feedback

Primary Actor: User

Secondary Actor: System

Scope: Feedback Module

Description: Allows users to share experience with a service.

Main Success Scenario (Basic Flow):

User goes to Feedback section.

Fills in rating and comments.

Submits feedback.

System stores it.

Alternative Flows:

Empty feedback form.

Feedback not submitted due to error.

Use Case: View Feedback

Primary Actor: Visitor, Admin

Secondary Actor: System

Scope: Feedback Module

Description: Displays existing feedback for services.

Main Success Scenario (Basic Flow):

Actor clicks "View Feedback".

System fetches and displays comments and ratings.

Alternative Flows:

No feedback yet.

Feedback loading error.

Use Case: Forgot Password

Primary Actor: User

Secondary Actor: System

Scope: Authentication System

Description: Resets user password if forgotten.

Main Success Scenario (Basic Flow):

User clicks "Forgot Password".

Enters registered email.

System sends password reset link.

Alternative Flows:

Invalid or unregistered email.

Email server issue.

Use Case: Authentication (included use case)

Primary Actor: System

Secondary Actor: Database

Scope: Security

Description: Validates user credentials and manages session states.

Main Success Scenario (Basic Flow):

User submits credentials.

System checks against the database.

Grants or denies access.

Alternative Flows:

DB connection failed.

Session timeout.

3. CRC cards

Admin	
<ul style="list-style-type: none">- Login- Manage User- Manage Provider- Manage Services- Manage Booking	<ul style="list-style-type: none">- User- Provider- Service- Booking

User	
<ul style="list-style-type: none">- Login- Registration- Book Services- Cart Management- Payment- Feedback	<ul style="list-style-type: none">- Admin- Service- Booking

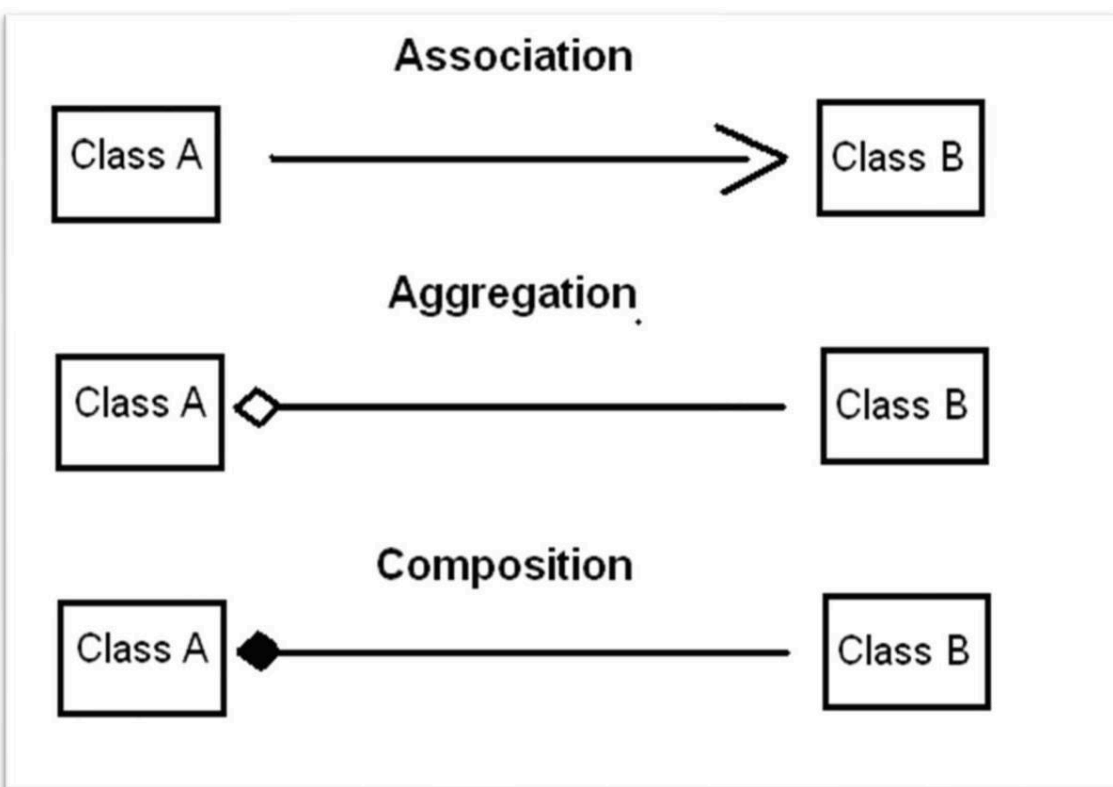
Booking	
<ul style="list-style-type: none">- Booking Details- Payment Status- Add to Cart	<ul style="list-style-type: none">- User- Service- Provider

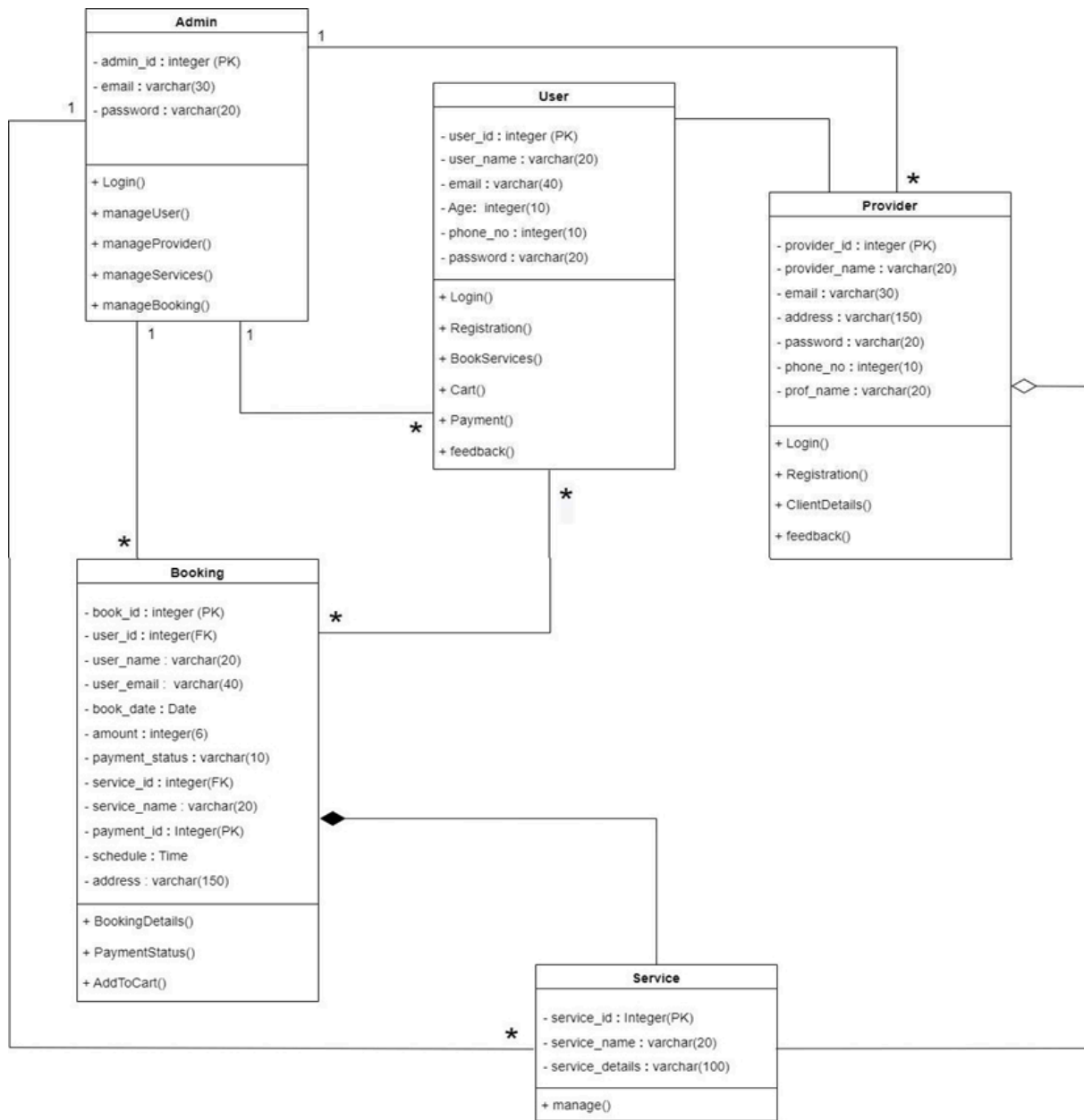
Service	
- Manage Services - Provide Service Details	- User - Admin

Provider	
- Login - Registration - View Client Details - Feedback	- Admin - Booking

4. Class Diagrams

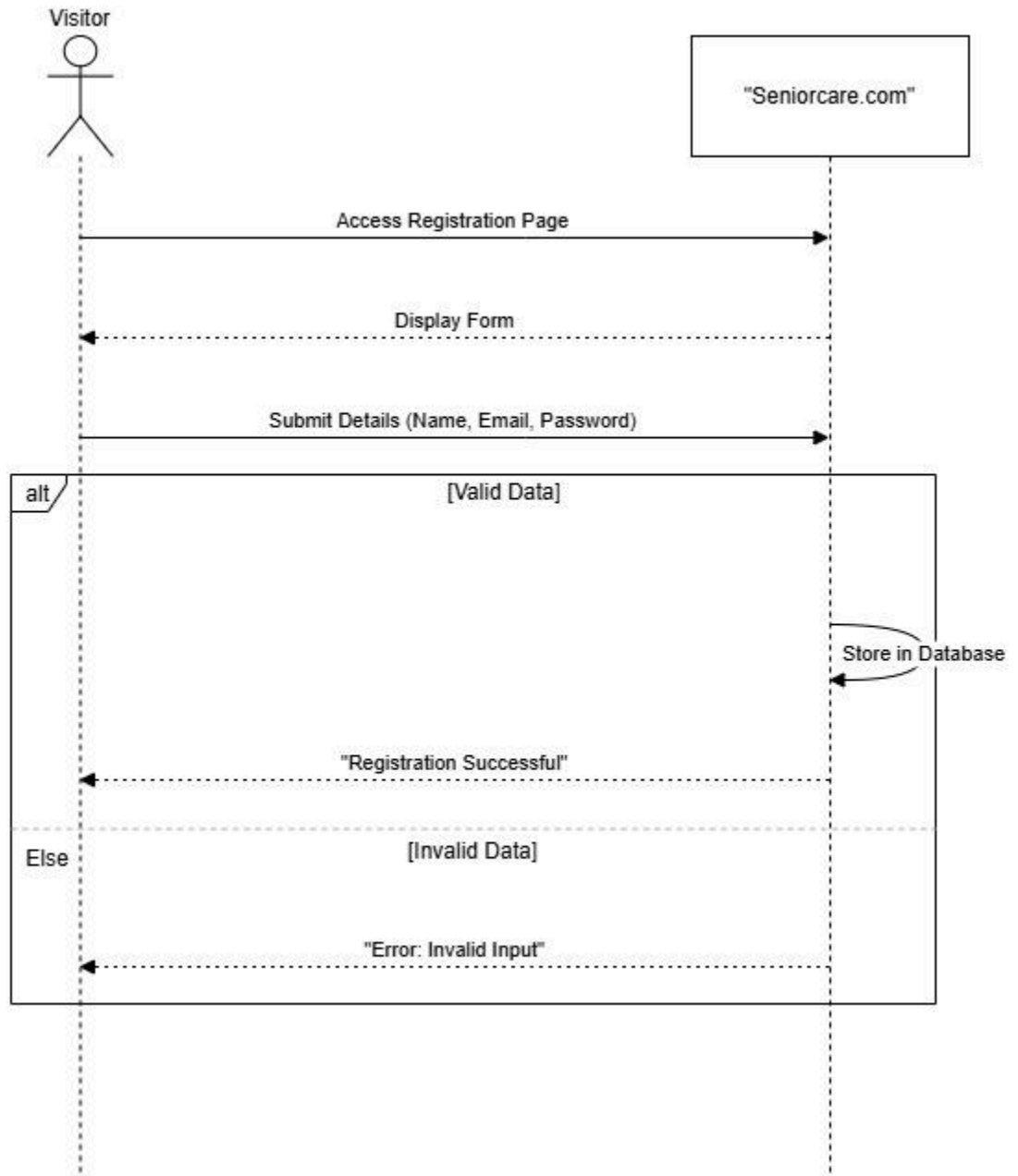
- Class diagram are used to display the relationship between objects.
- The main purpose of class diagram is to build a static view of a web application.



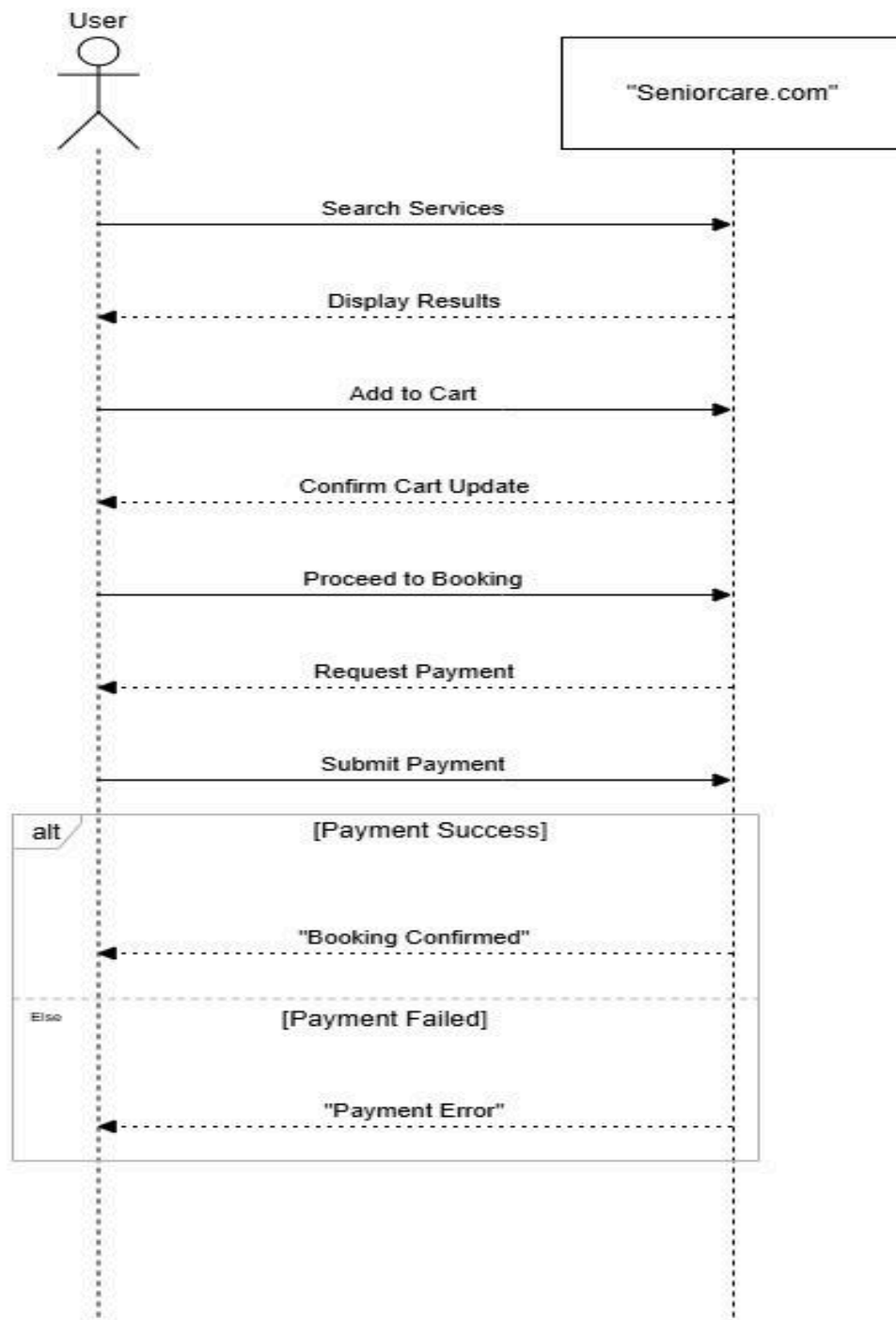


5. System Sequence Diagrams

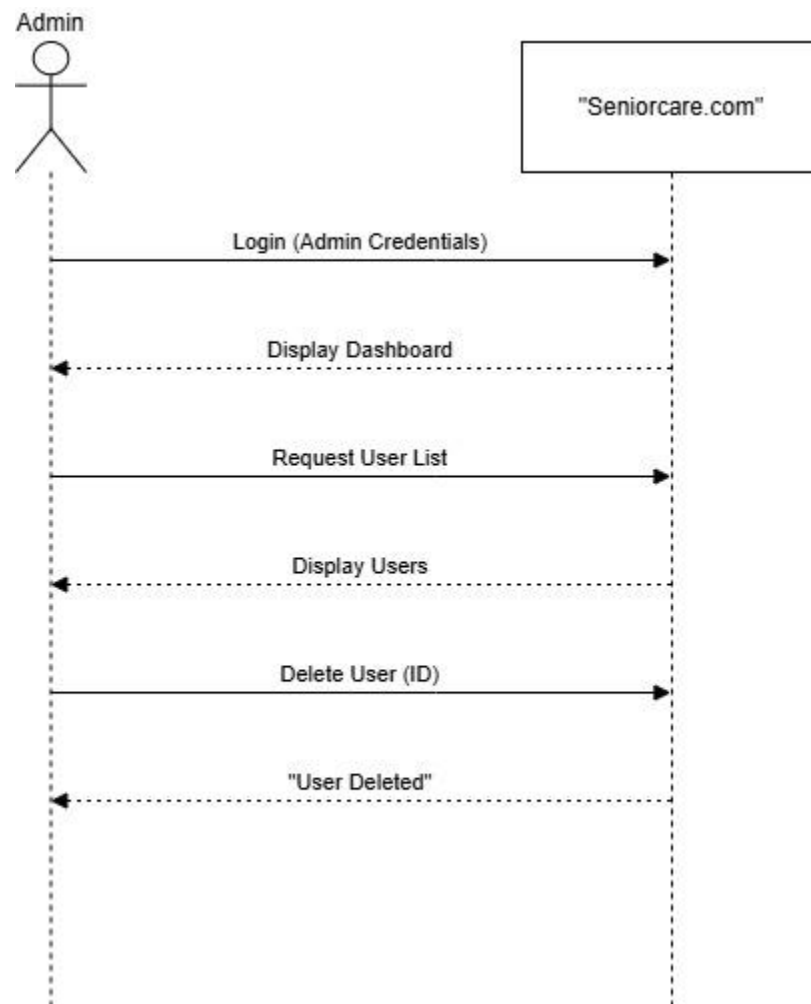
5.1 User Registration :-



5.2 Service Booking :-

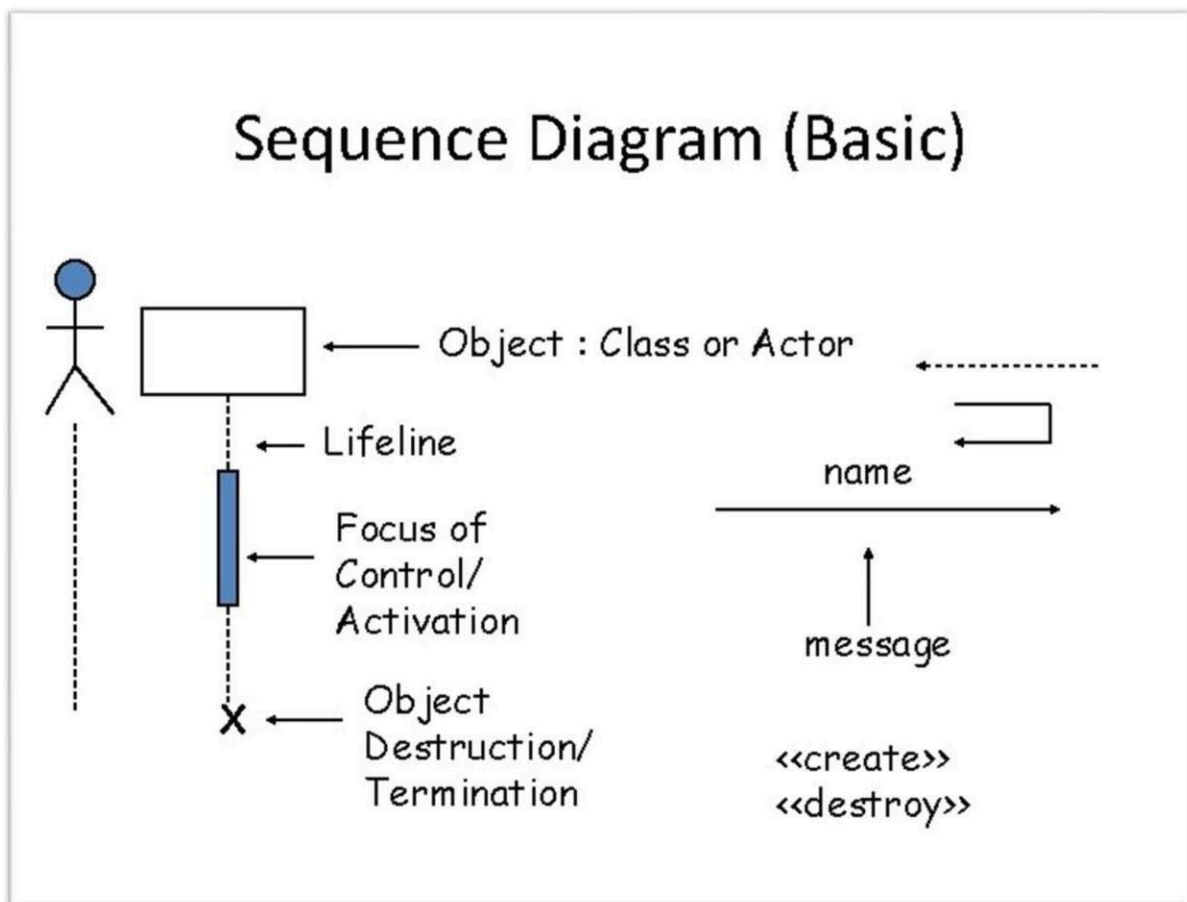


5.3 Admin Manage Users :-

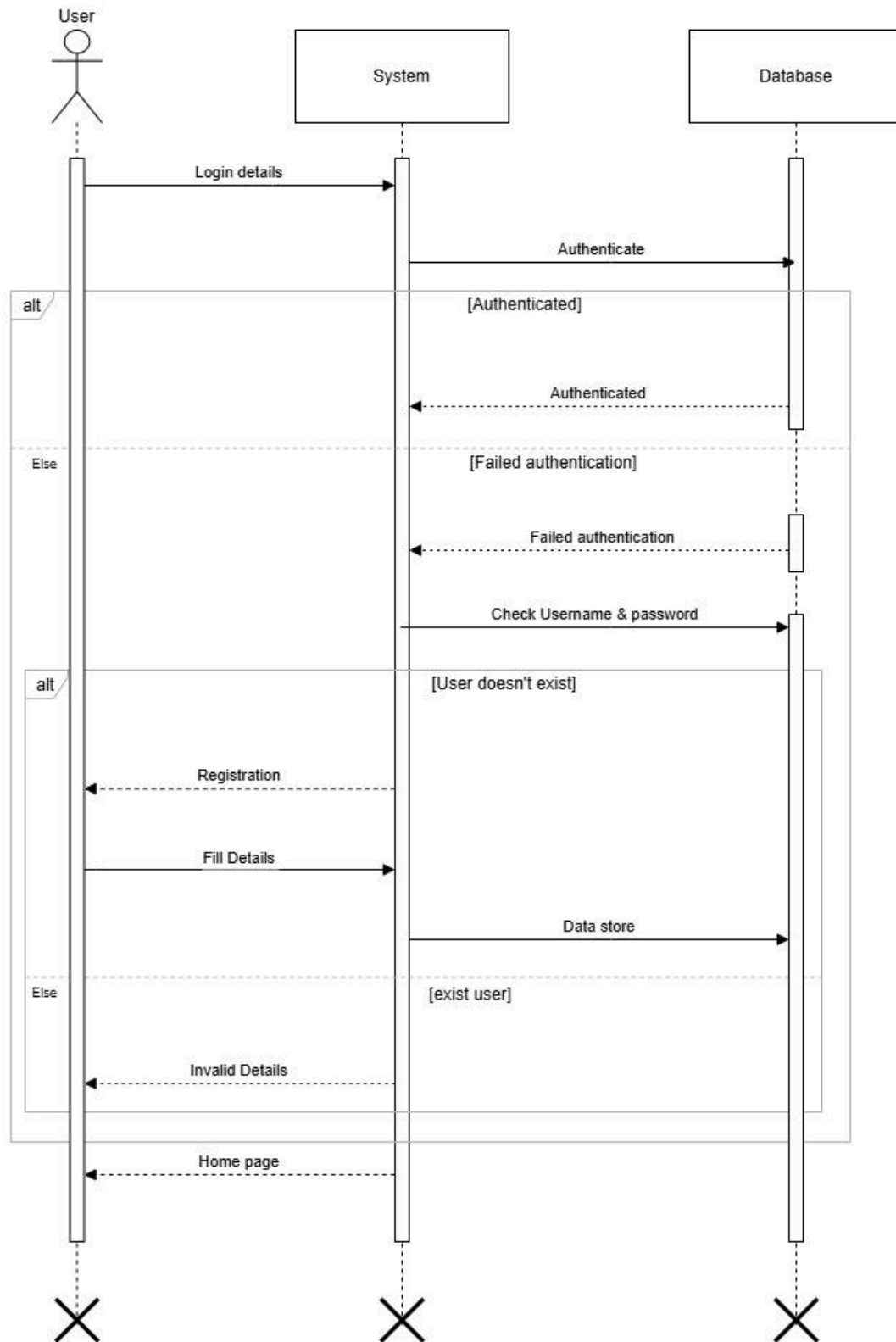


6. Sequence Diagrams

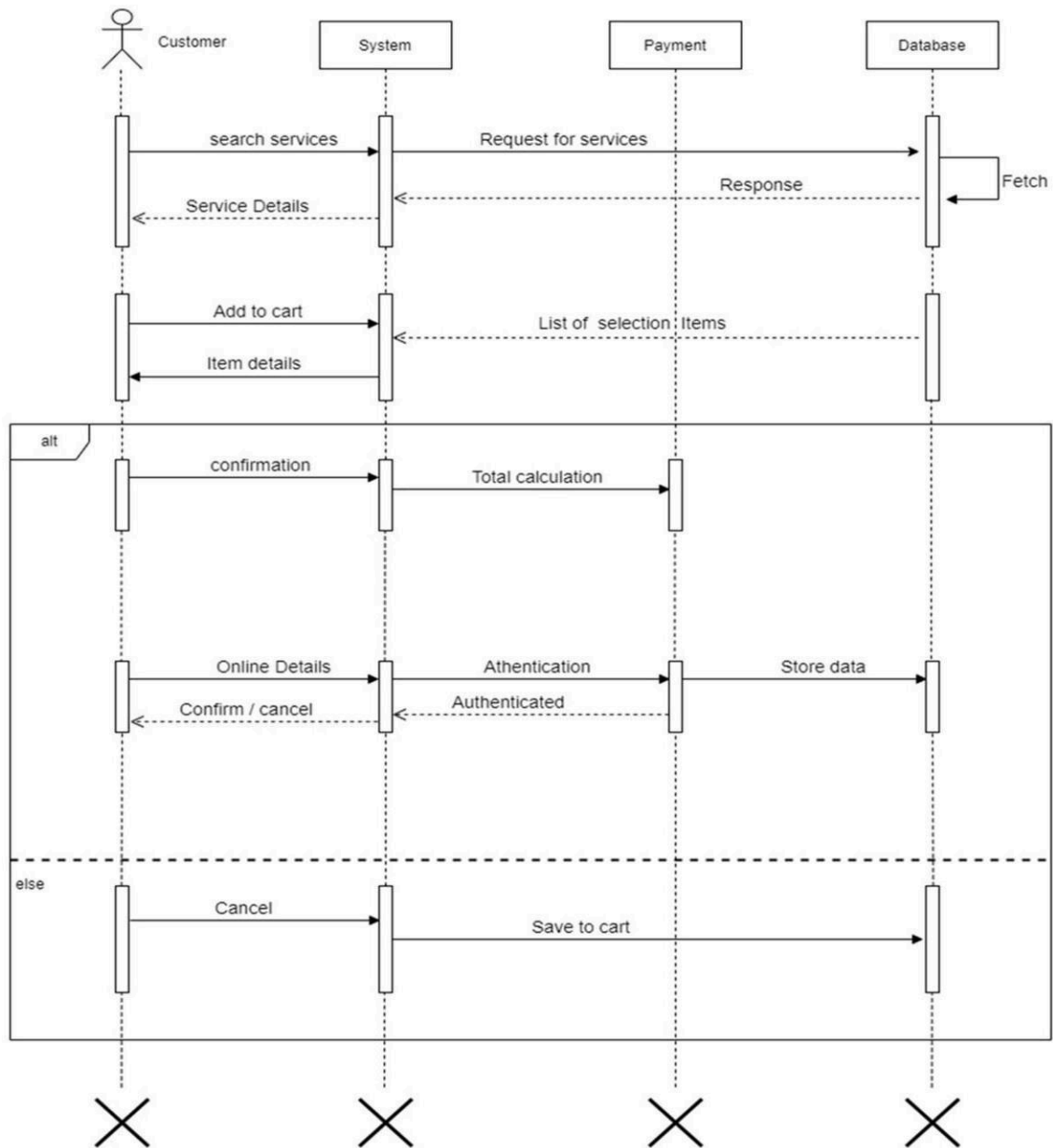
- The Sequence diagram represents the flow of message in the system and is also term as event diagram.
- The main purpose of diagram is to show the interaction between object in the sequential order.



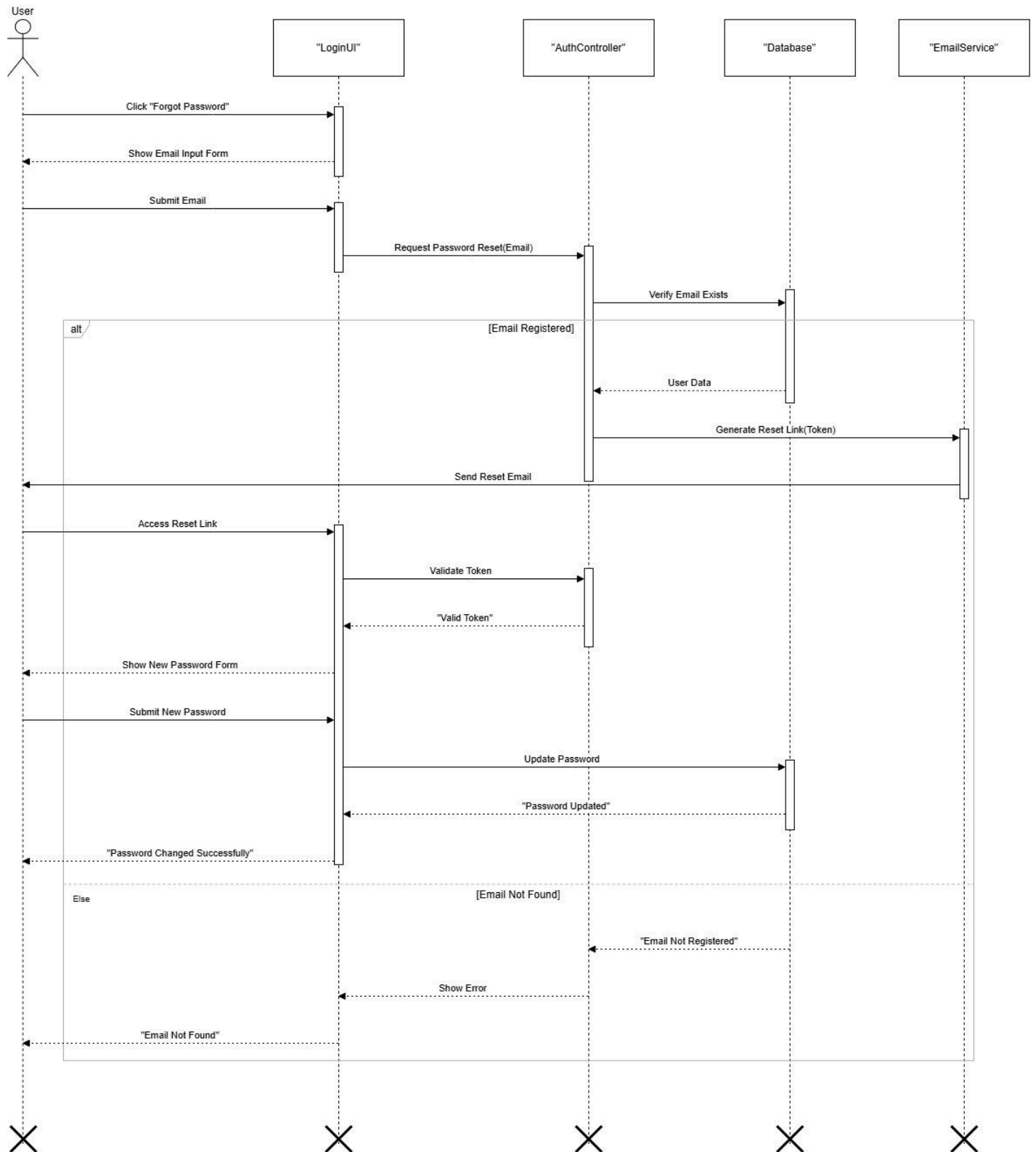
6.1 For Login and Registration



6.2 For Service Booking



6.3 Forget Password



6.4 Manage Service (Admin)

