FAST NUCES

Student Societies Management Application

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Contents

Project Idea & Scope

- To automate student societies' approval and event management processes for the societies and admins.

- Real-Time social media app with a home feed displaying new posts an announcements.

- Domain is any FAST branch. Fully scalable to be implemented as a campus-level and even a university-level app.

Functional Requirements / Use Cases

STUDENTS

- Apply to a society.
- Leave a Society.
- Edit Profile.
- Make a Post.
- Comment on a Post/Announcement.

SOCIETIES

- Edit Profile.
- Make a Posts.
- Make an Announcement.
- Manage Members.
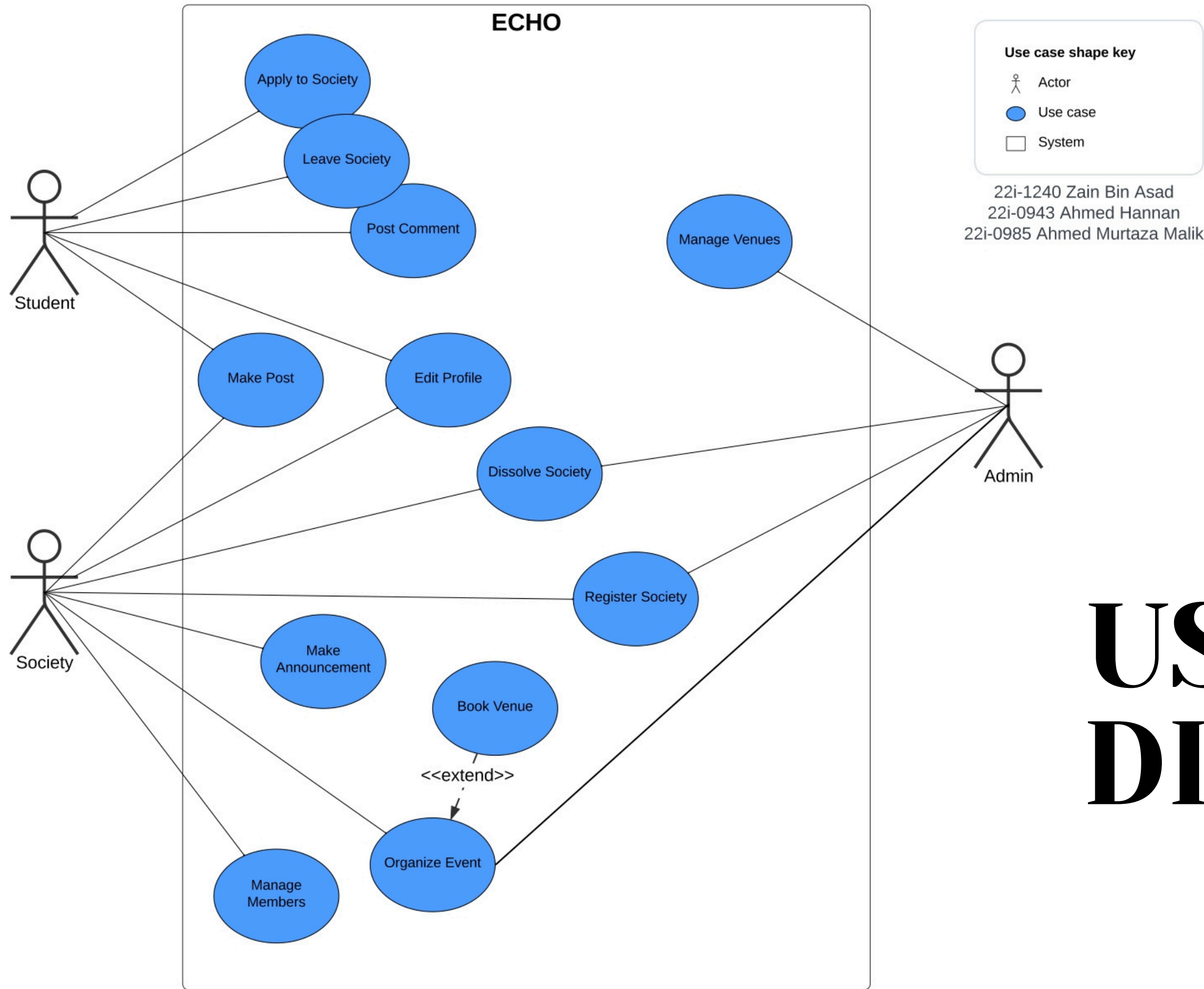- Organize an Event.
- Manage Member Roles.

ADMINISTRATORS

- Add a new Society.
- Approve or reject a pending society.
- Remove an existing society.
- Approve or reject a pending event.
- Add a new venue into the system.
- Remove an existing venue from the sytem.
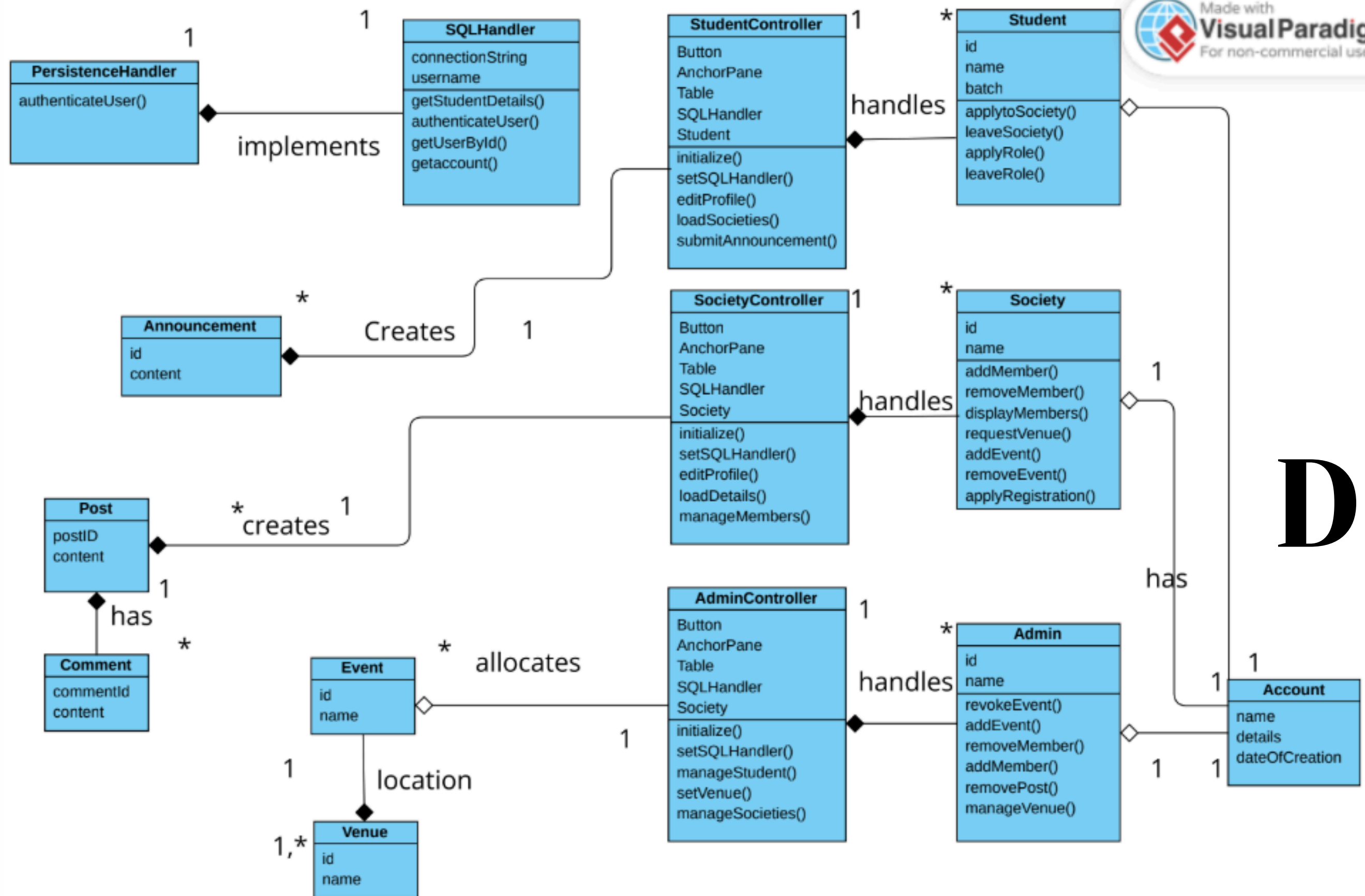
Non-Functional Requirements

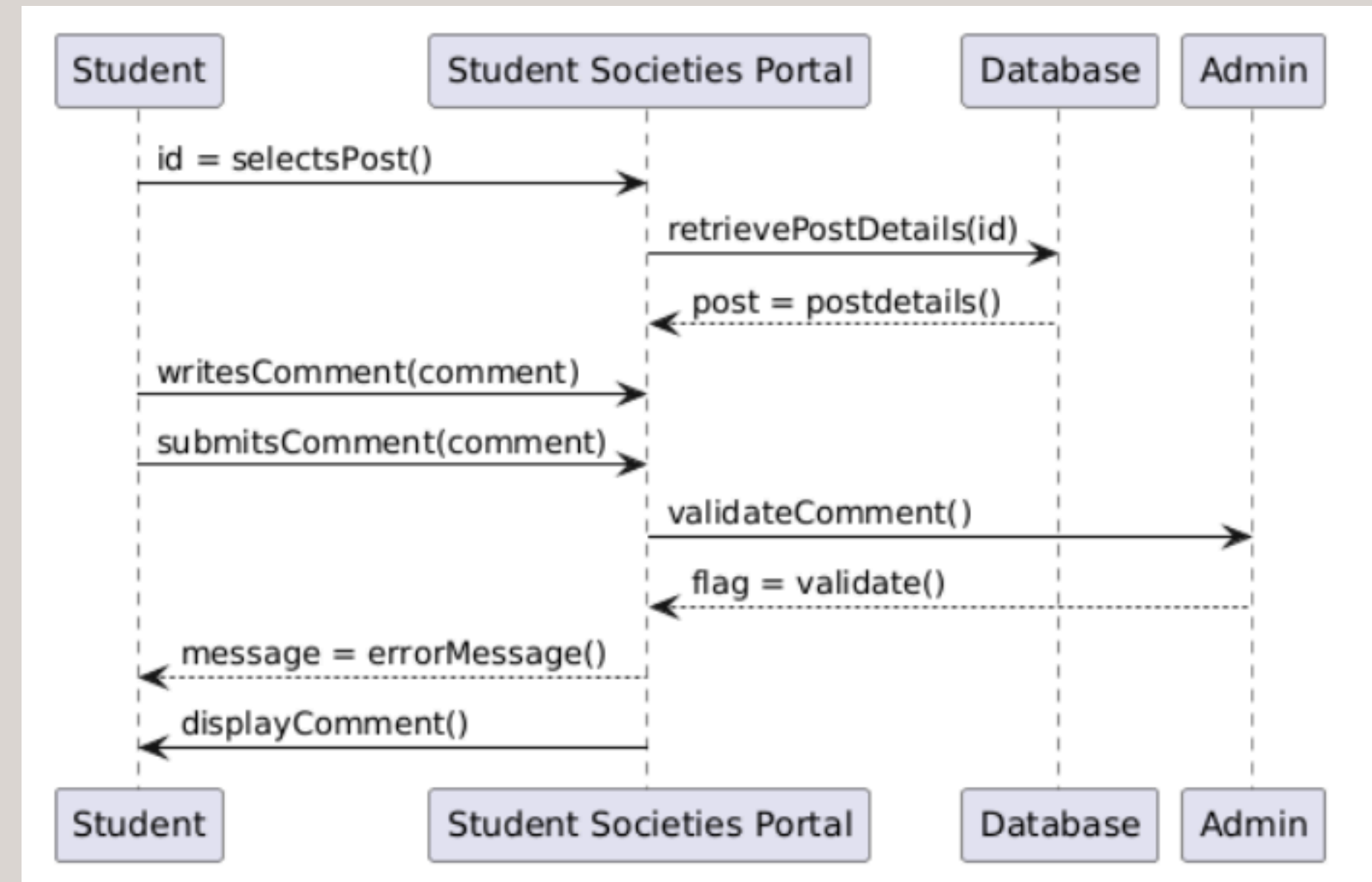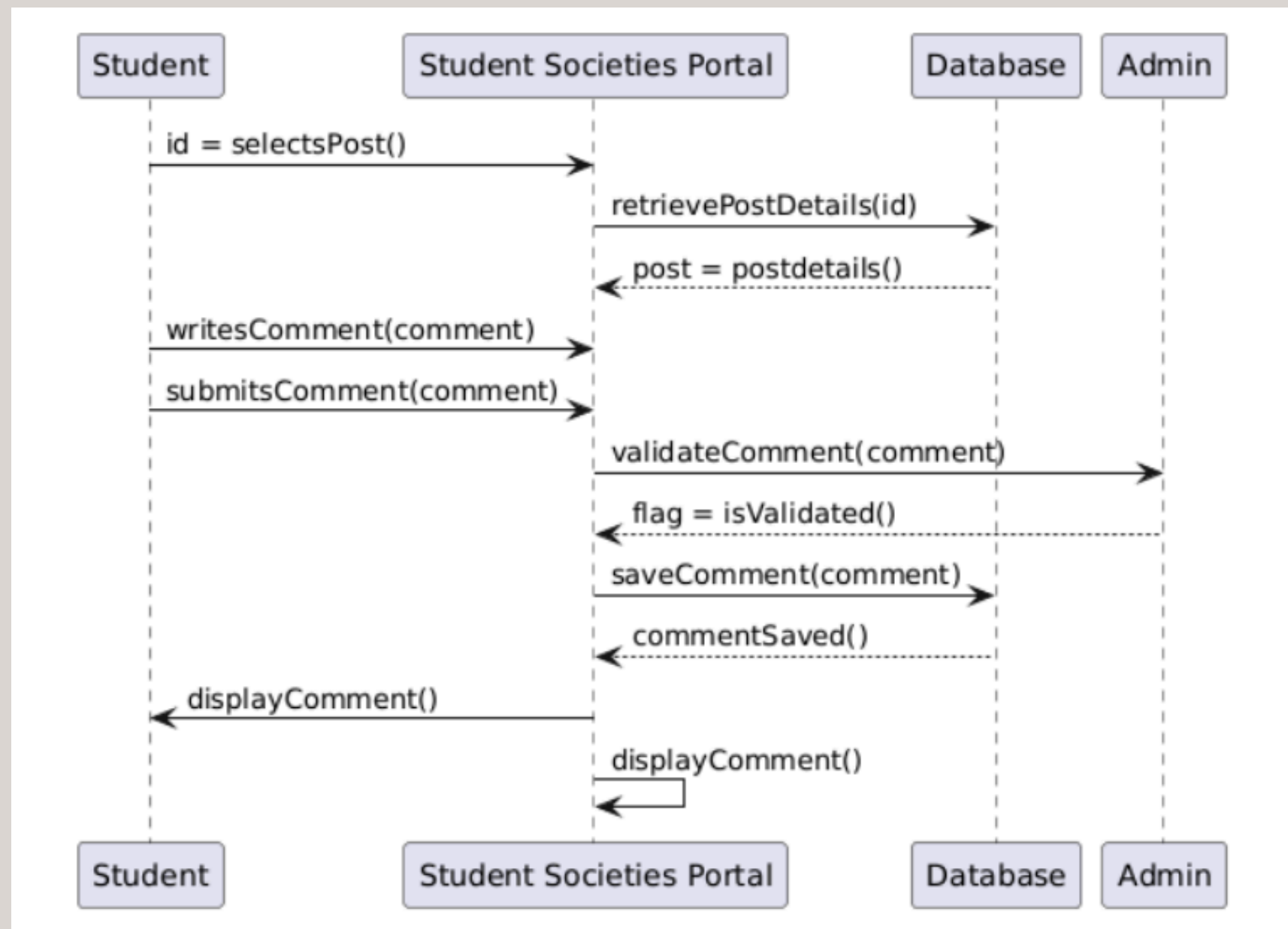**01** SECURITY REQUIREMENTS

02 GUI REQUIREMENTS

03 PERFORMANCE REQUIREMENTS

USE CASE DIAGRAM

ECHO

Use case shape key
- Actor
- Use case
- System

22i-1240 Zain Bin Asad
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Student
Society
Admin

Apply to Society
Leave Society
Post Comment
Make Post
Edit Profile
Manage Venues
Dissolve Society
Register Society
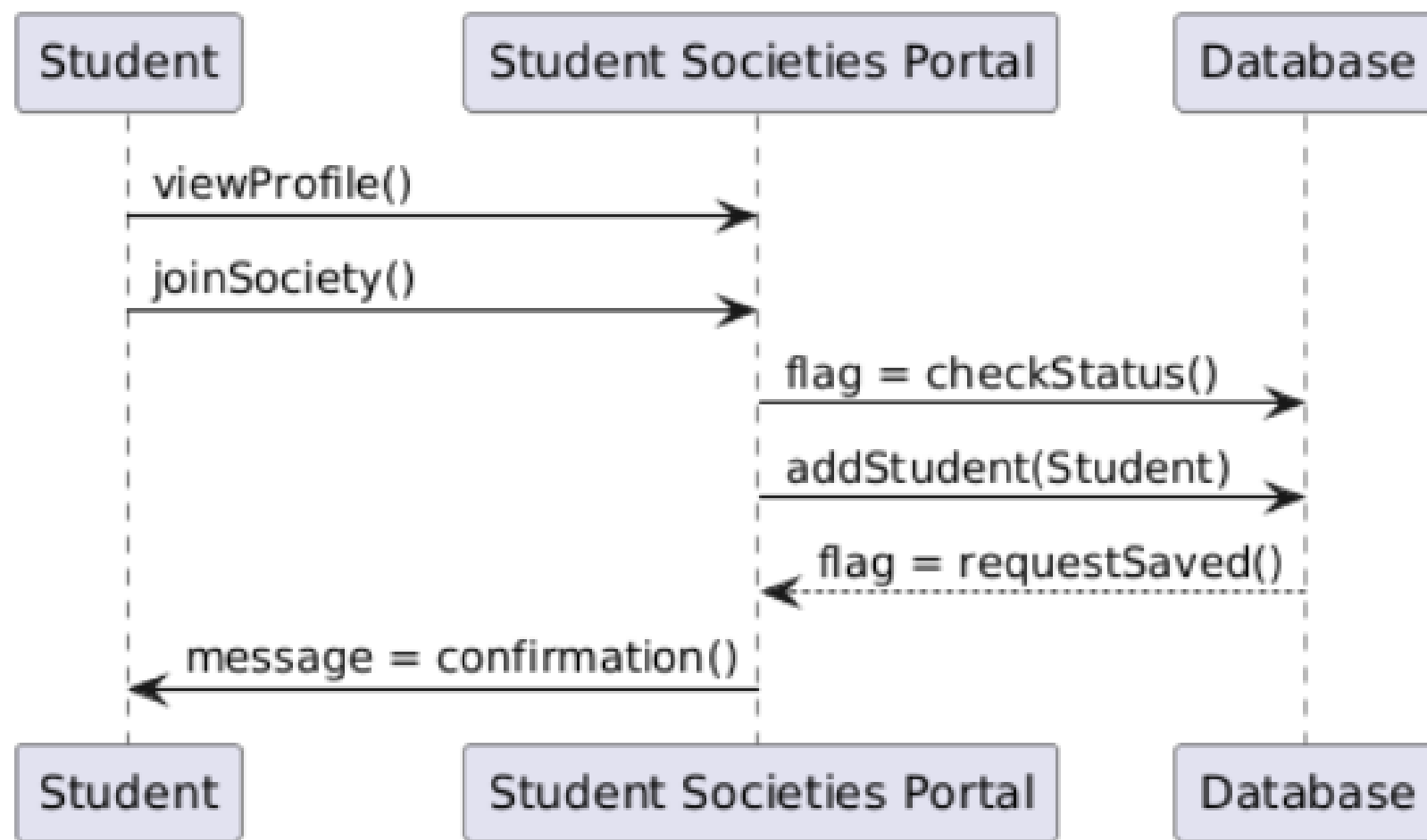Make Announcement
Book Venue
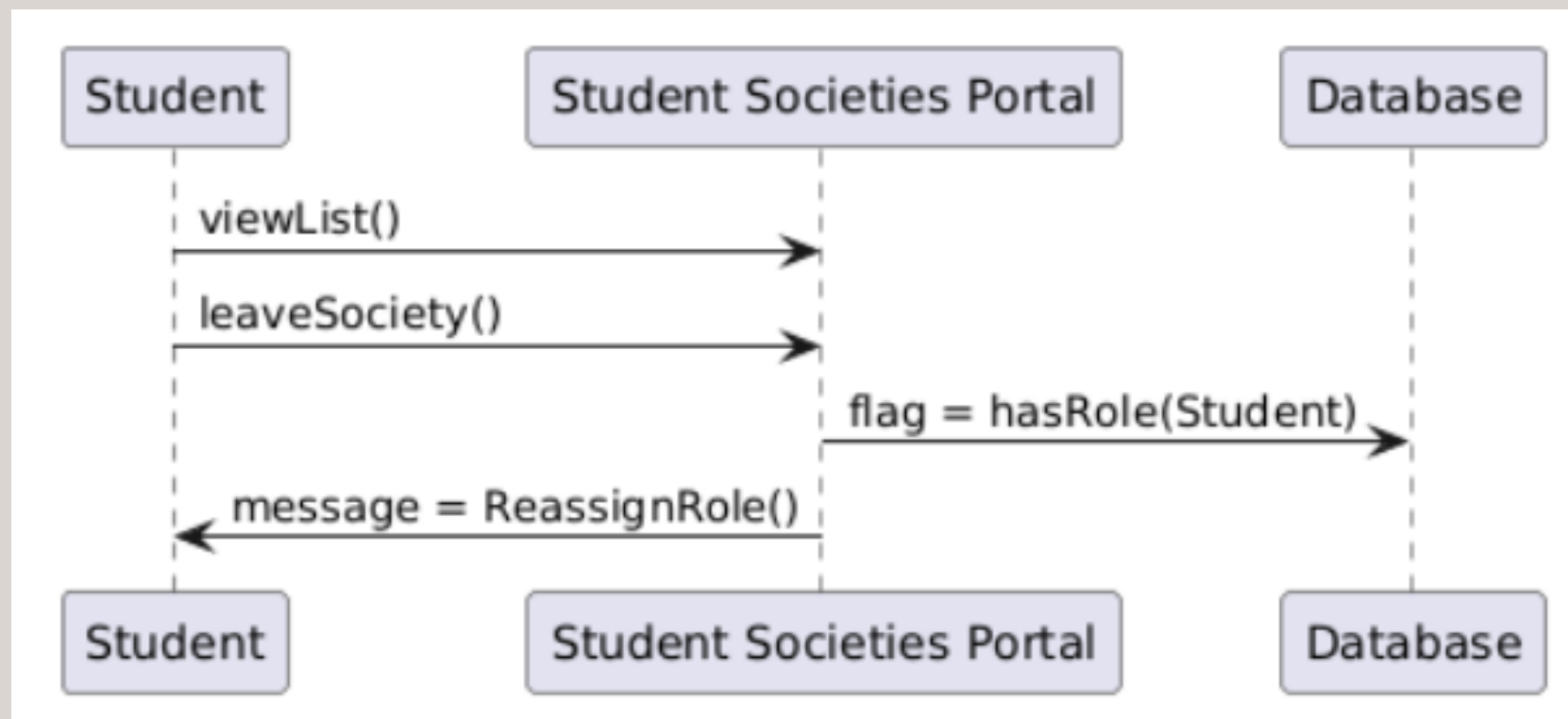Organize Event
Manage Members

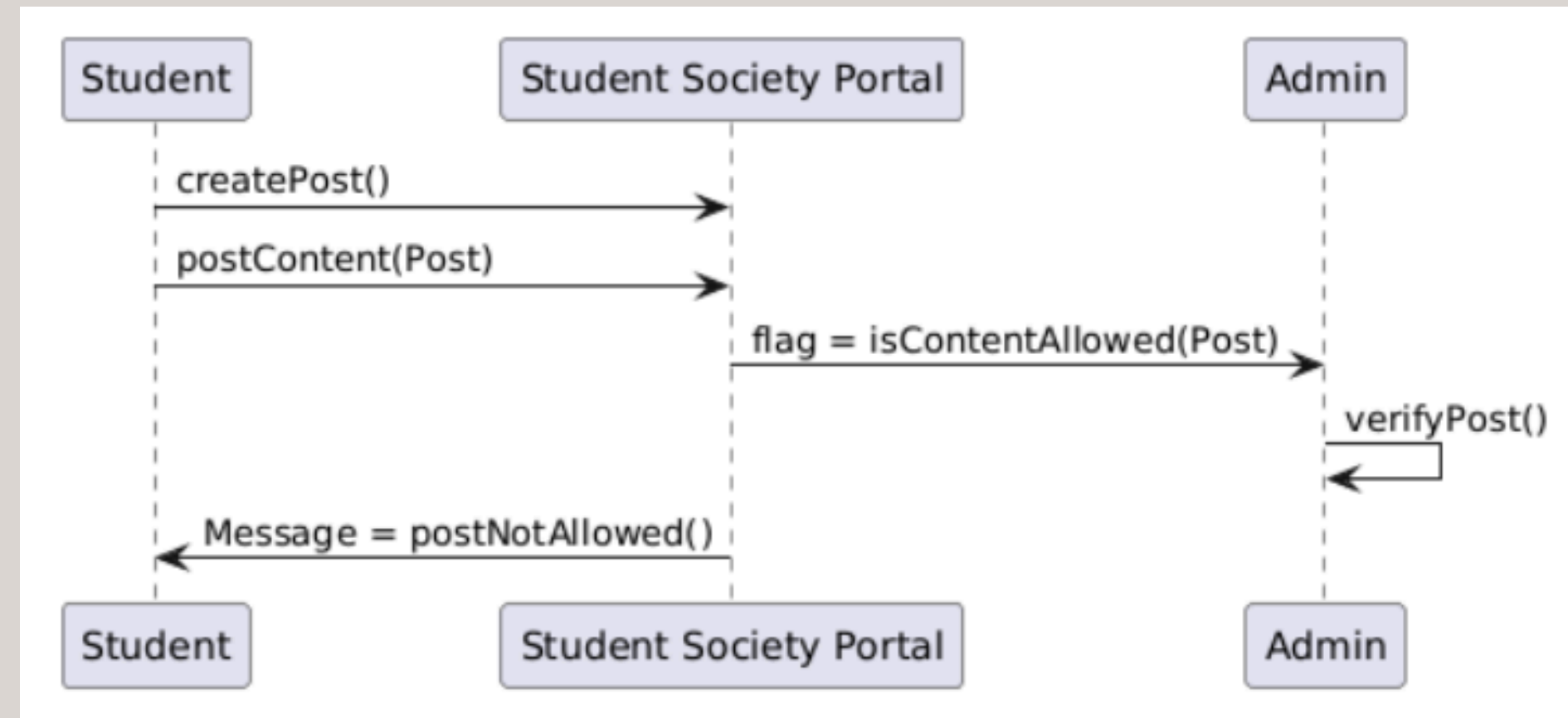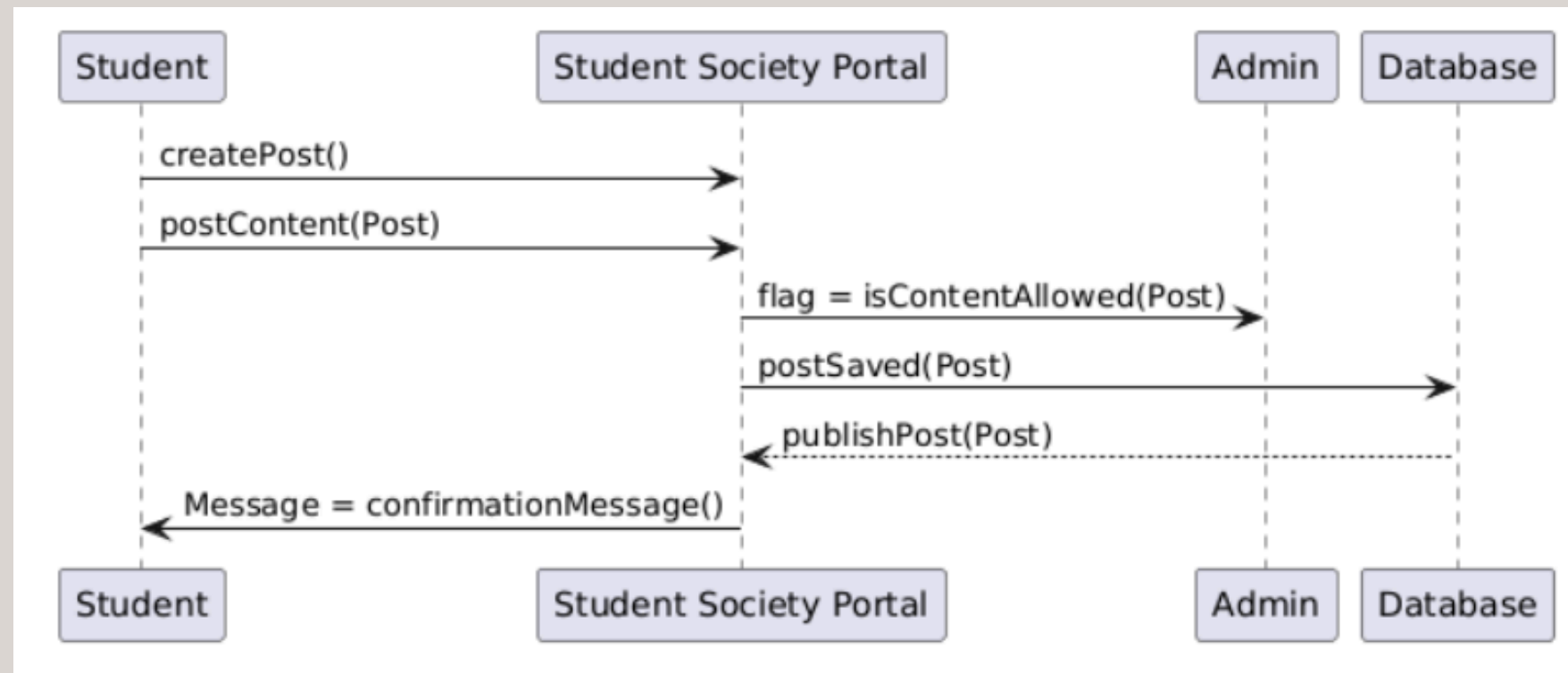<<extend>>

CLASS DIAGRAM

SEQUENCE DIAGRAMS

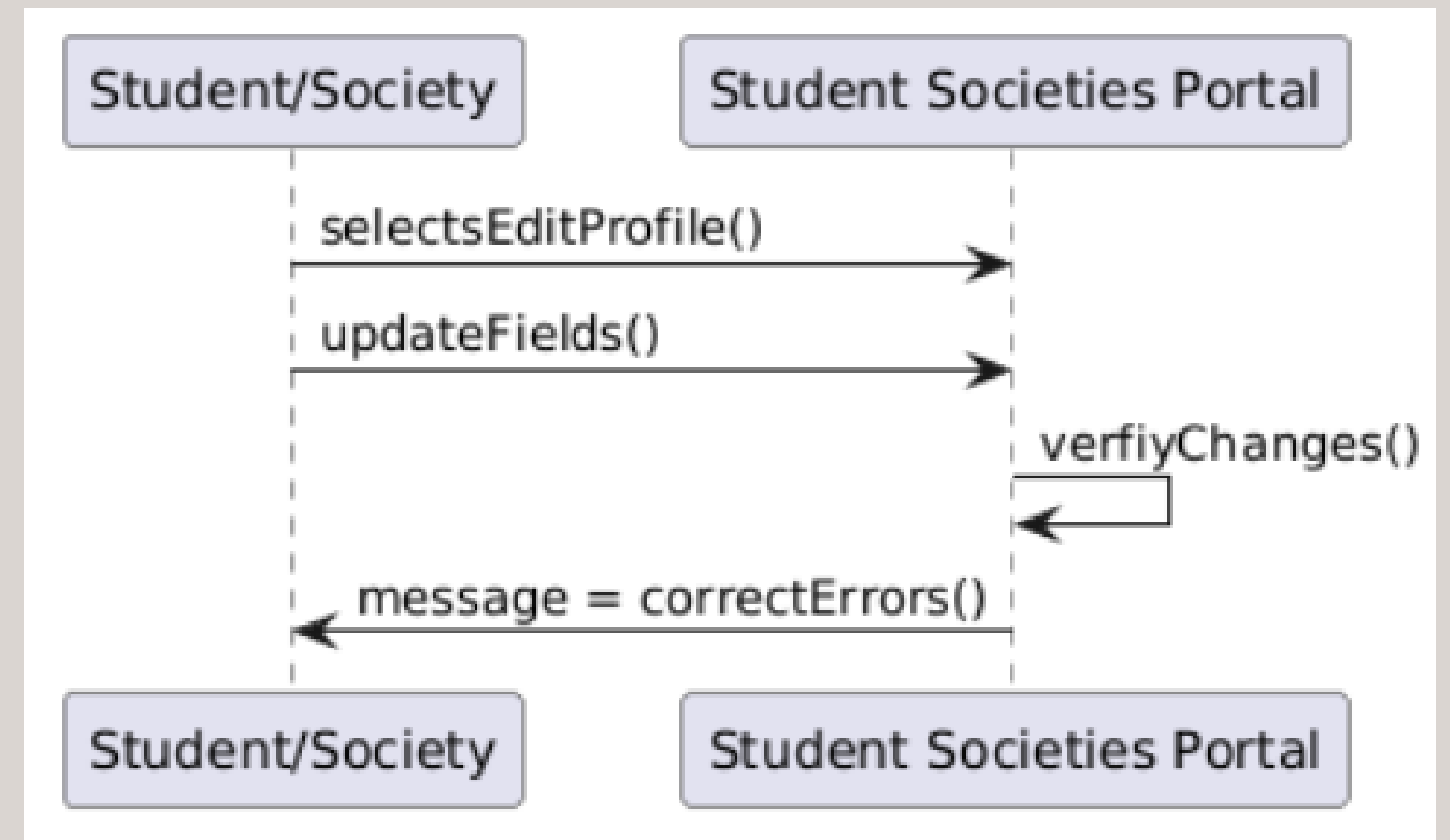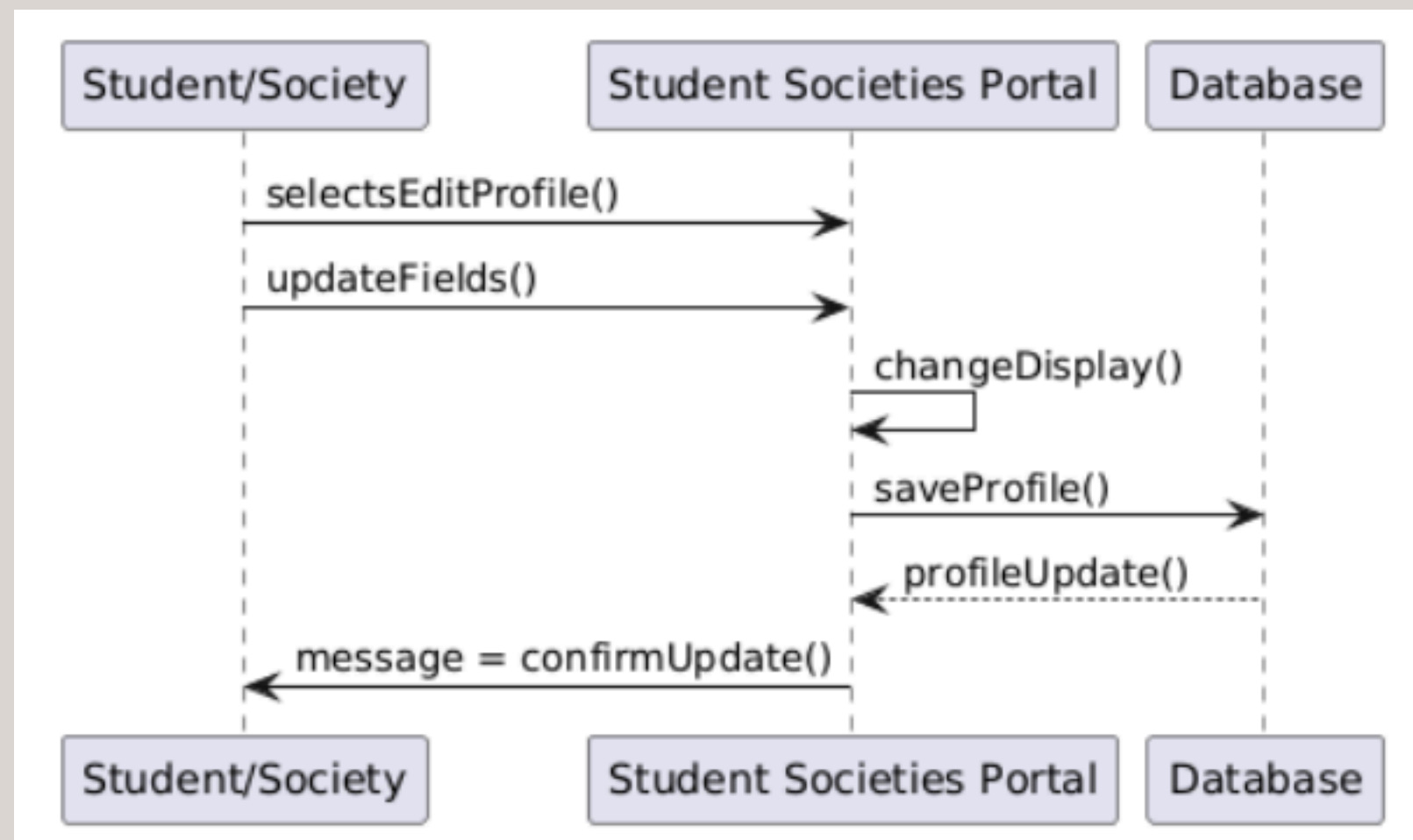## Student Comments on a Post
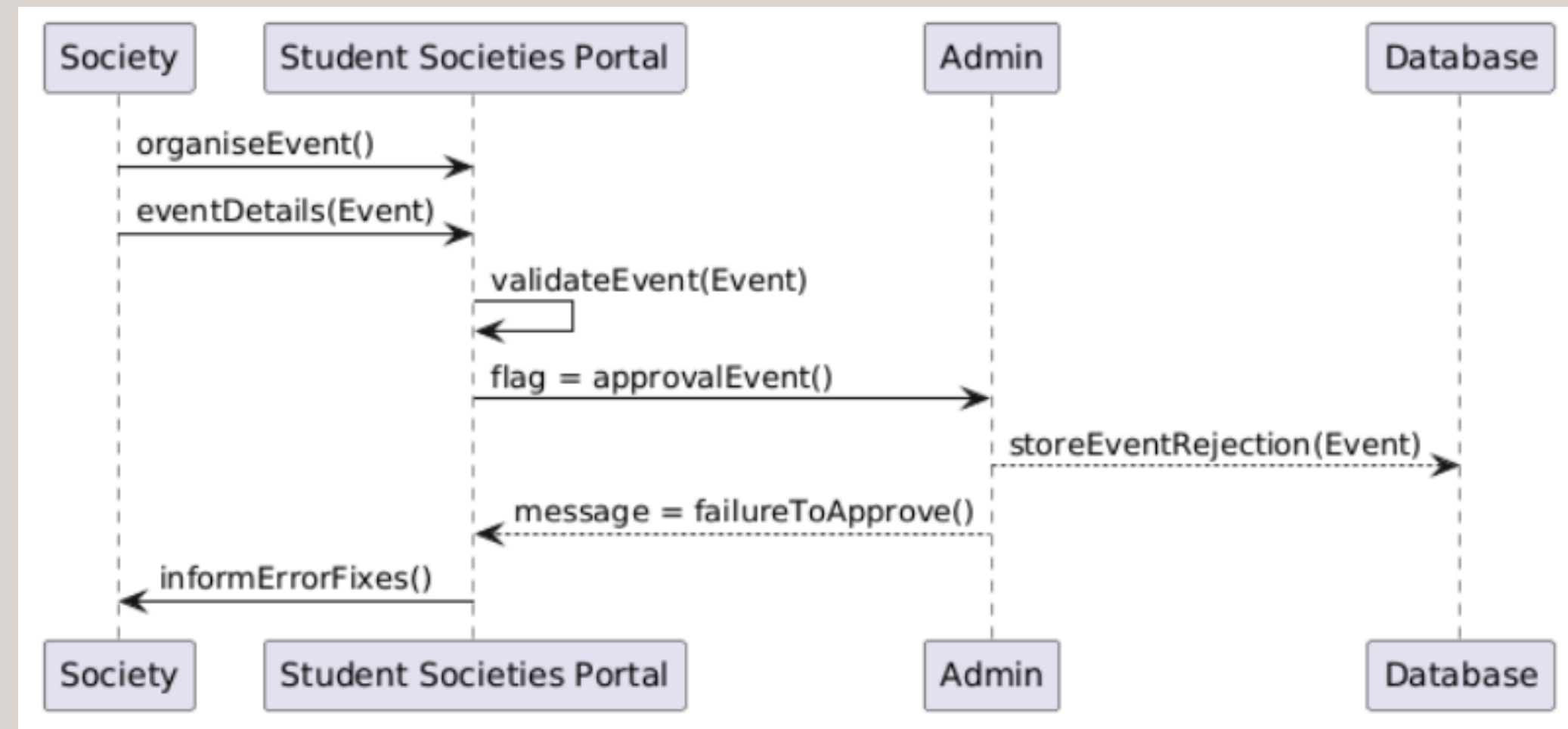
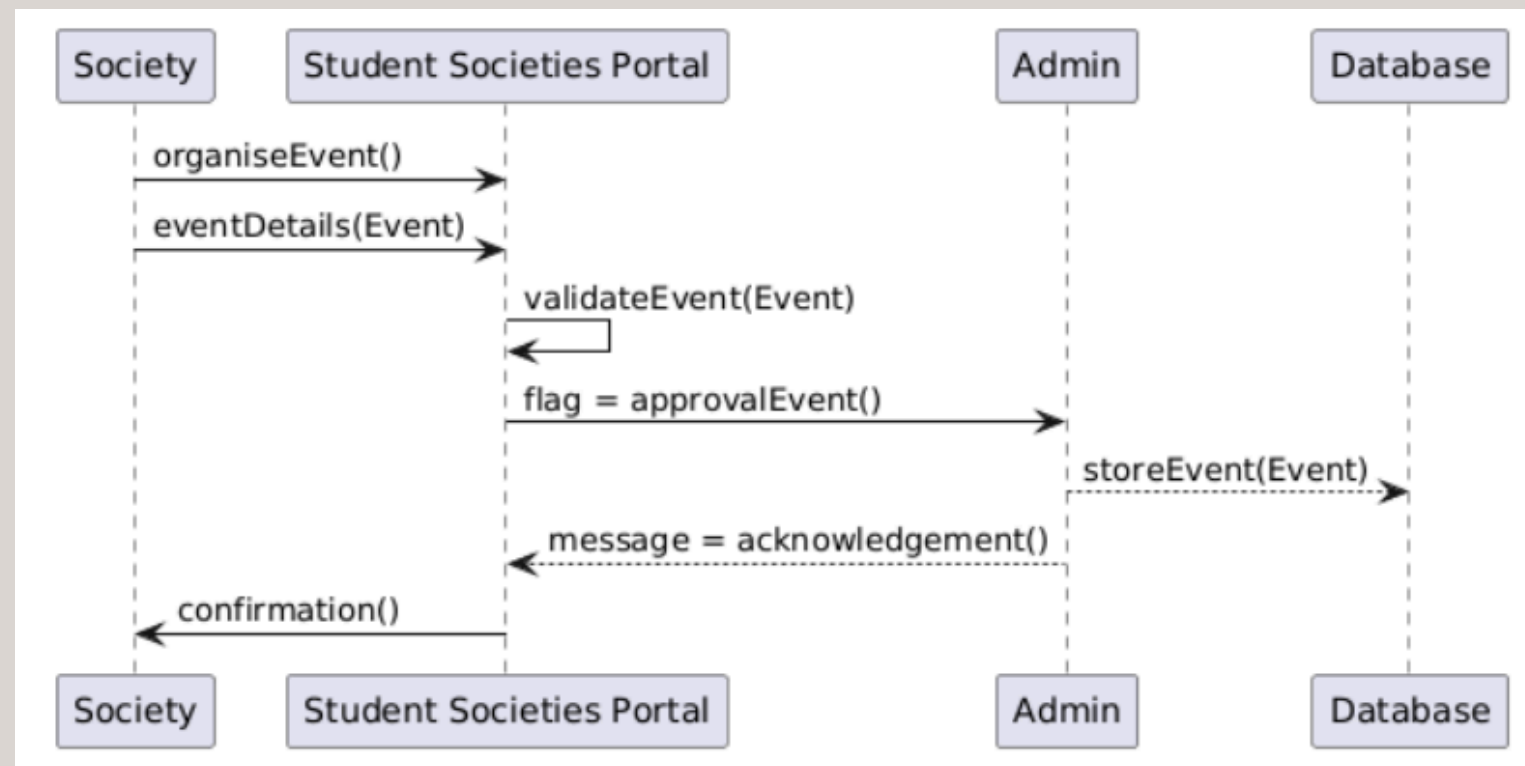# Student Applies to
a Society
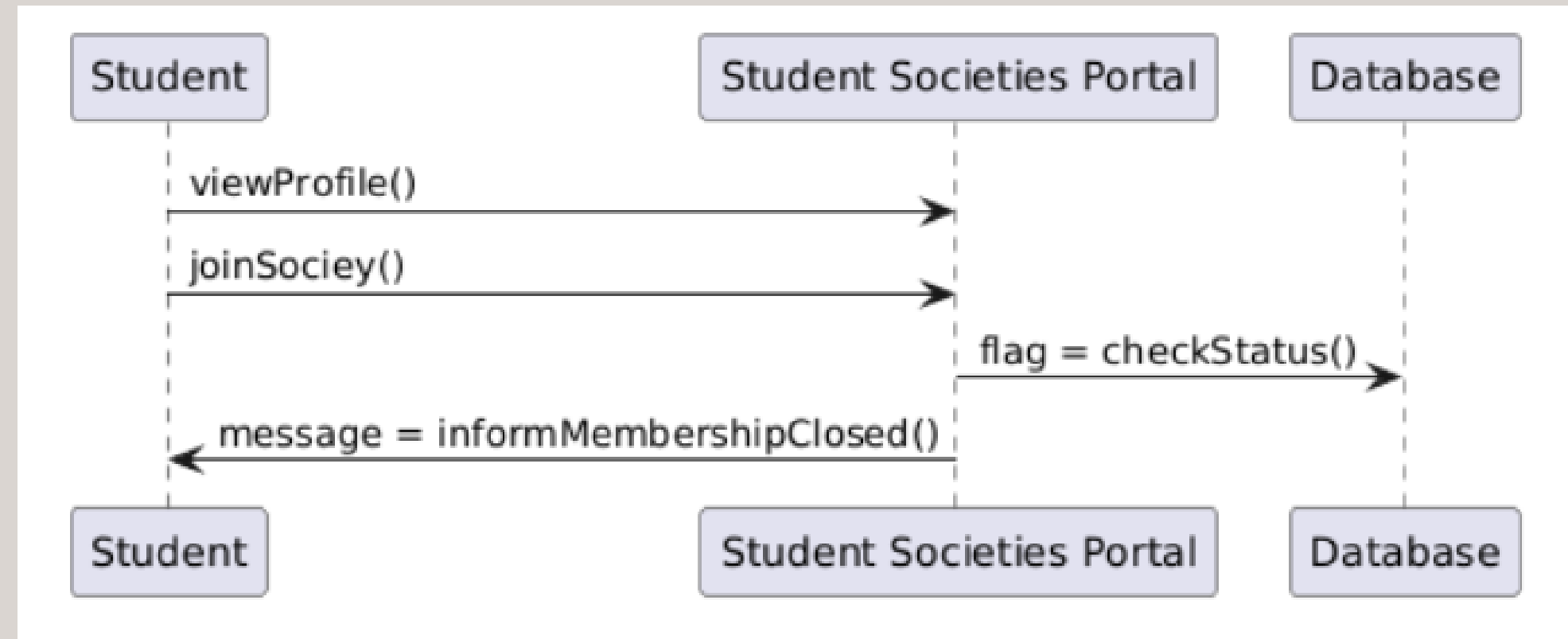
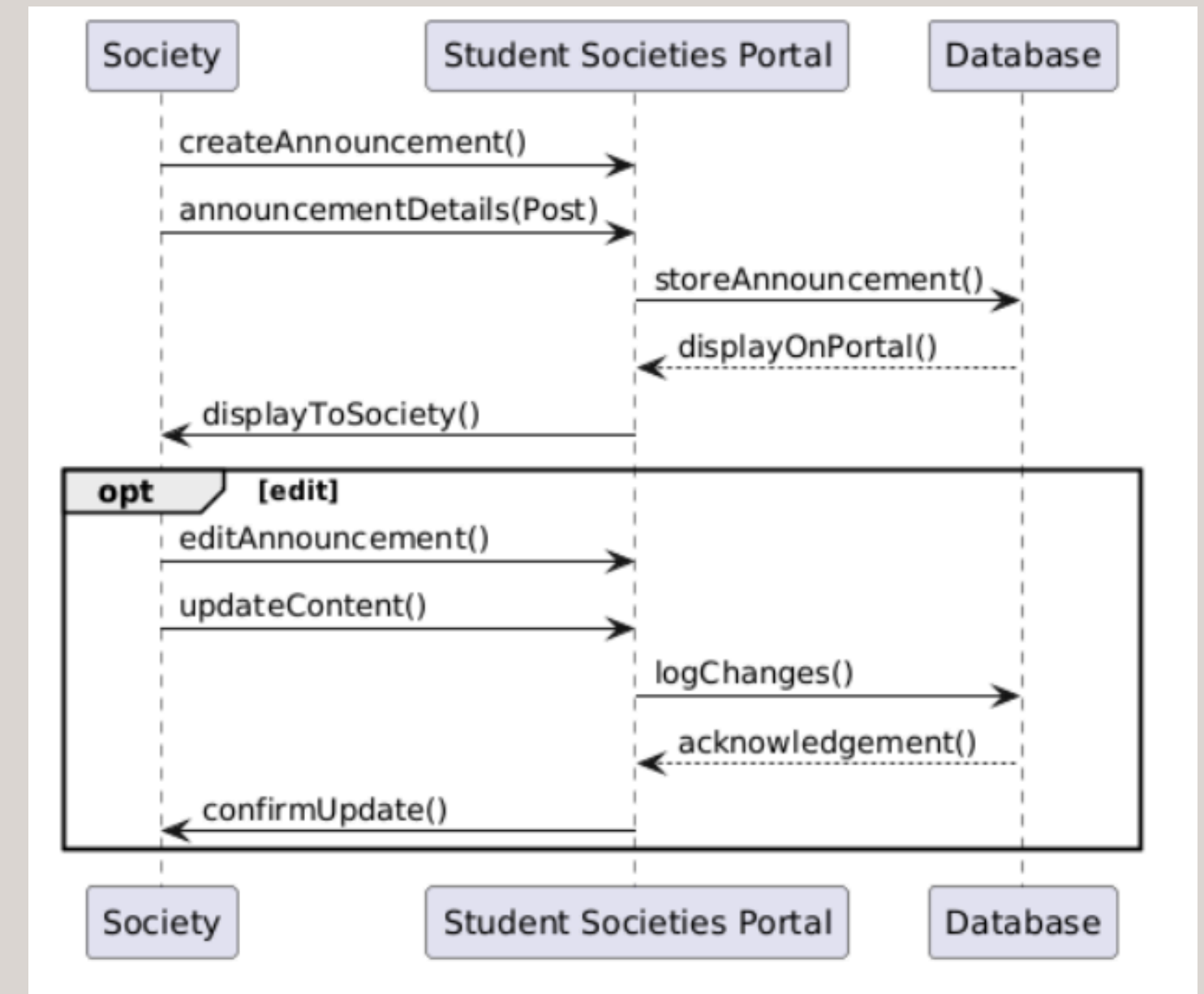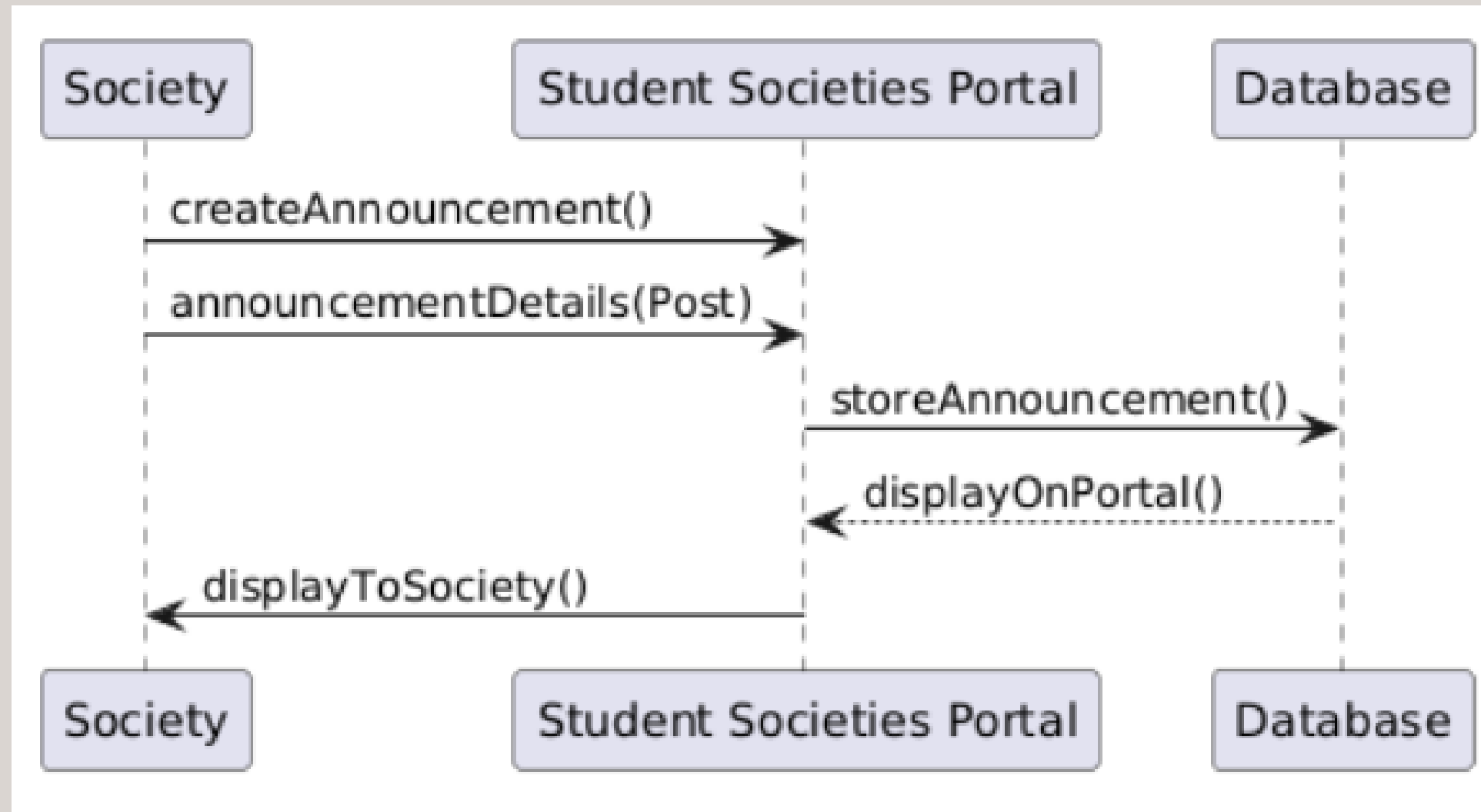# Student Leaves a Society
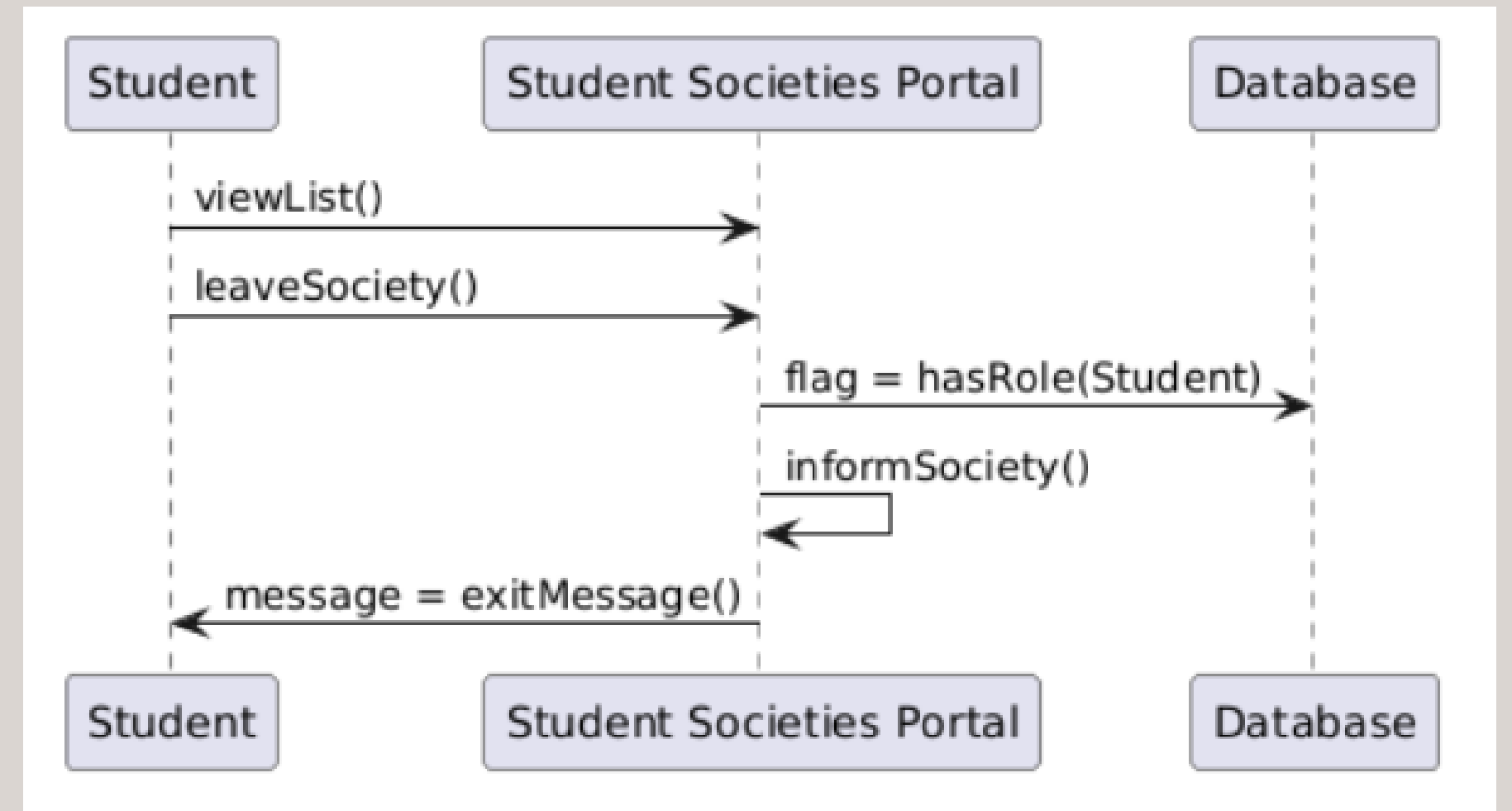
Student/Society
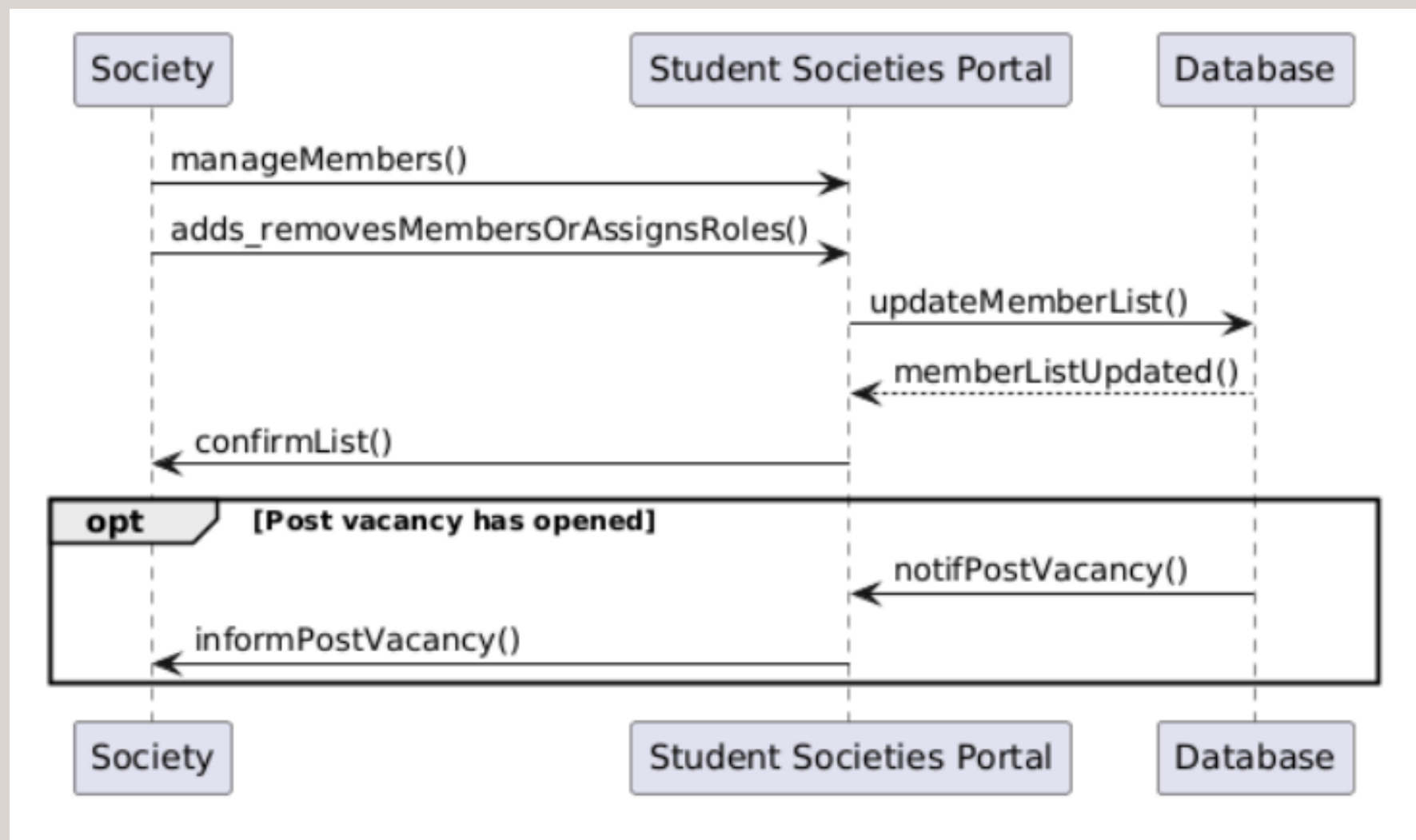# Makes a Post

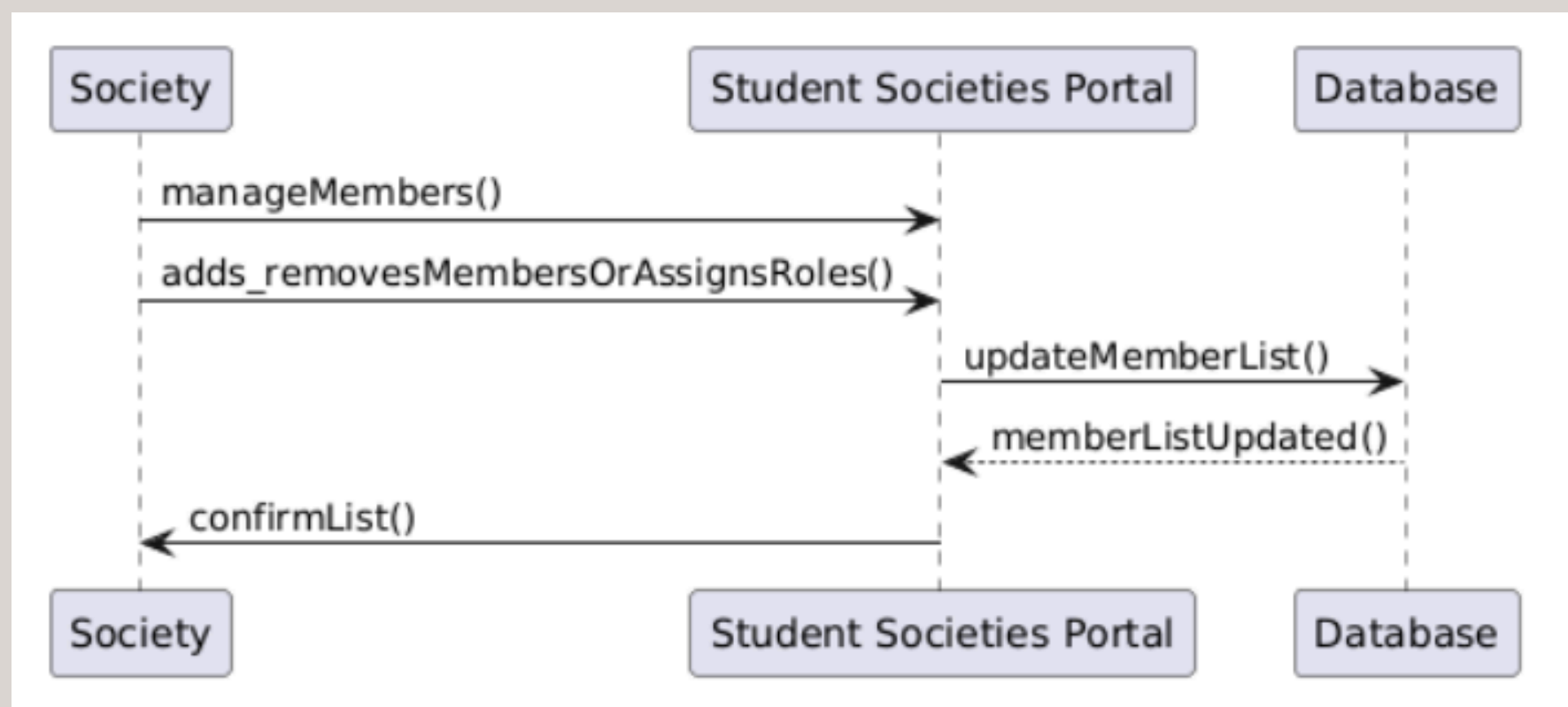# Student/Society
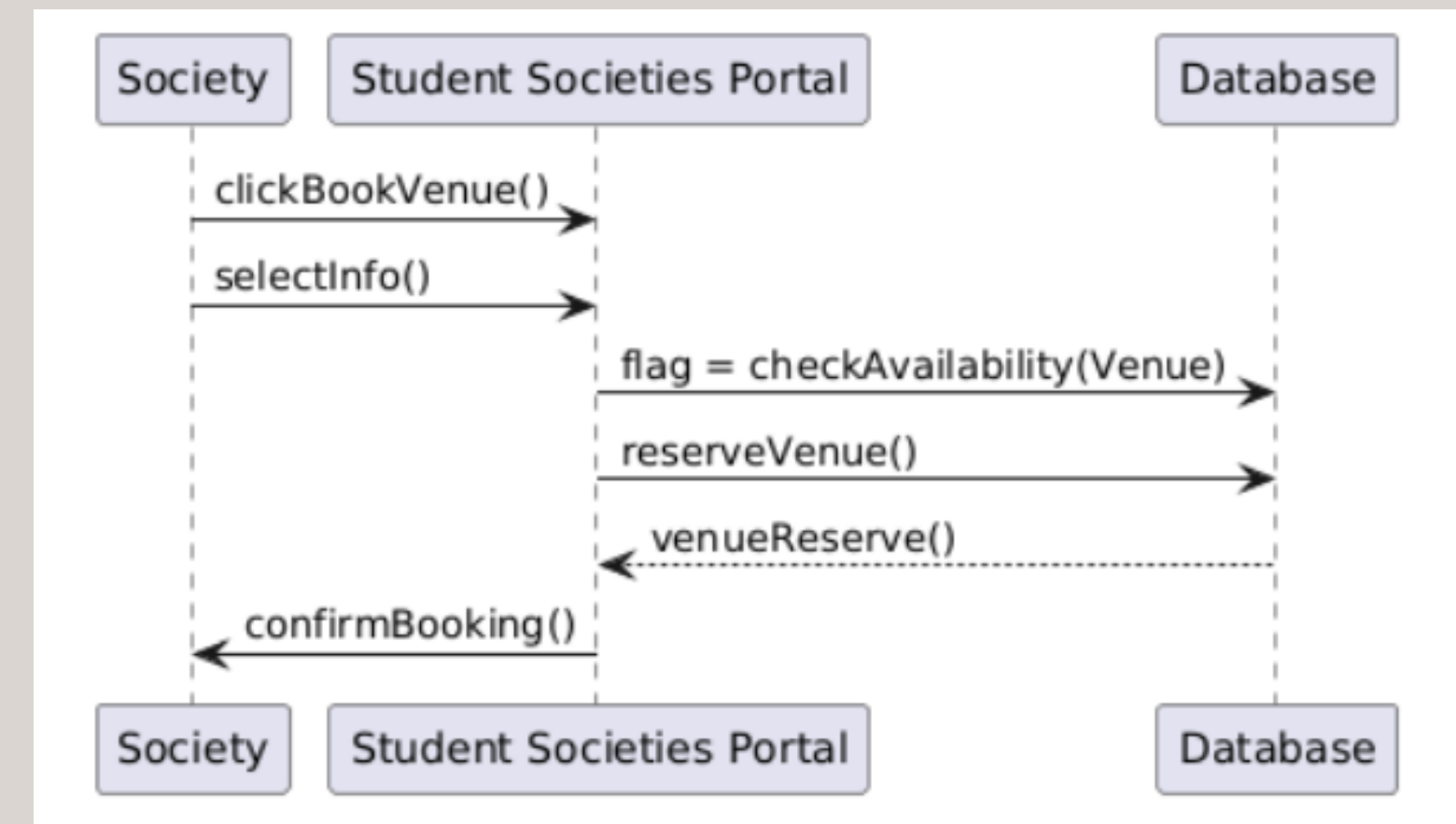# Edits their Profile

Society Organizes an Event

Society Makes an Announcement

Society Manages
Its Members

Society Books a
Venue
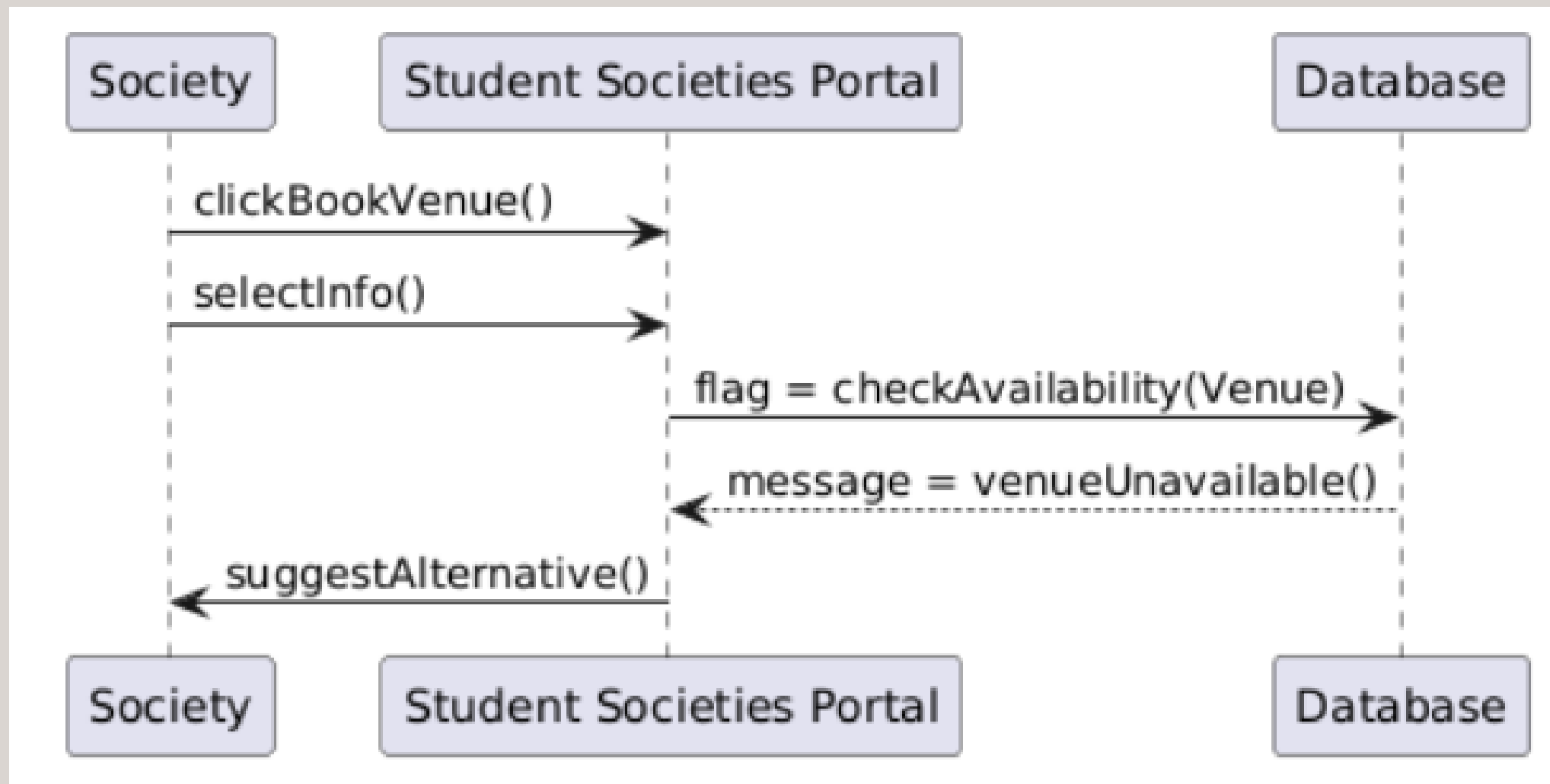
PACKAGE DIAGRAM
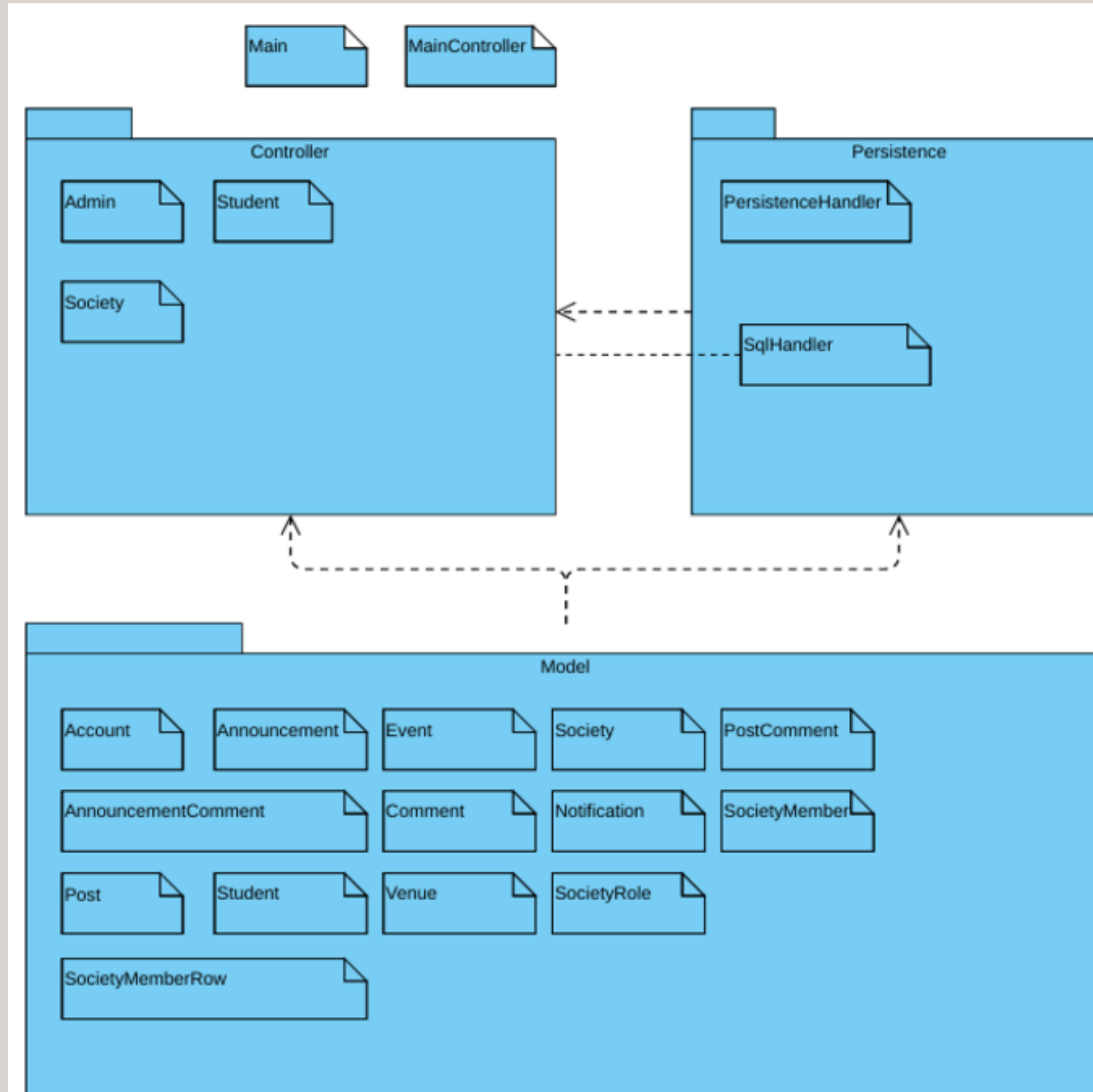
COMPONENT DIAGRAM
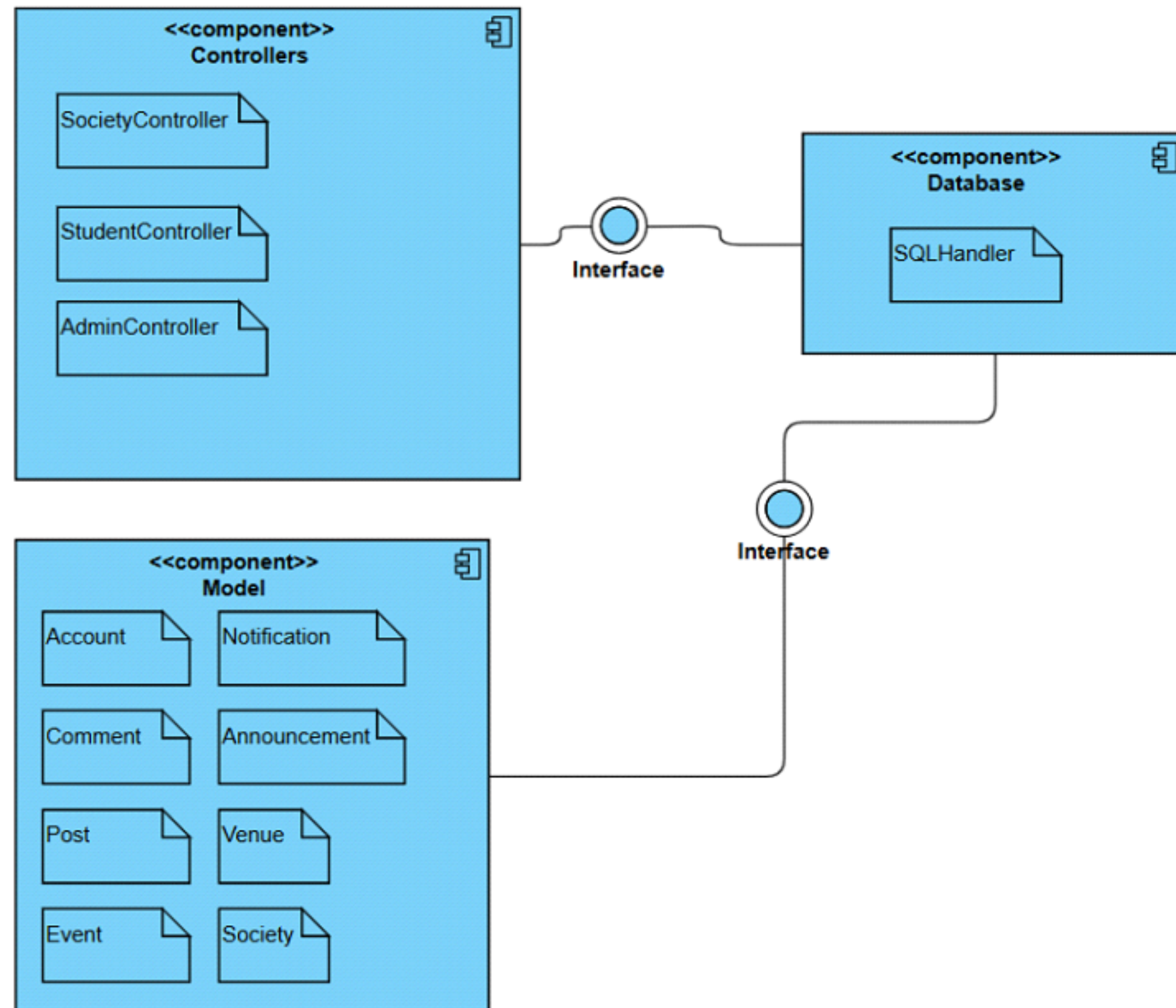
DEPLOYMENT DIAGRAM
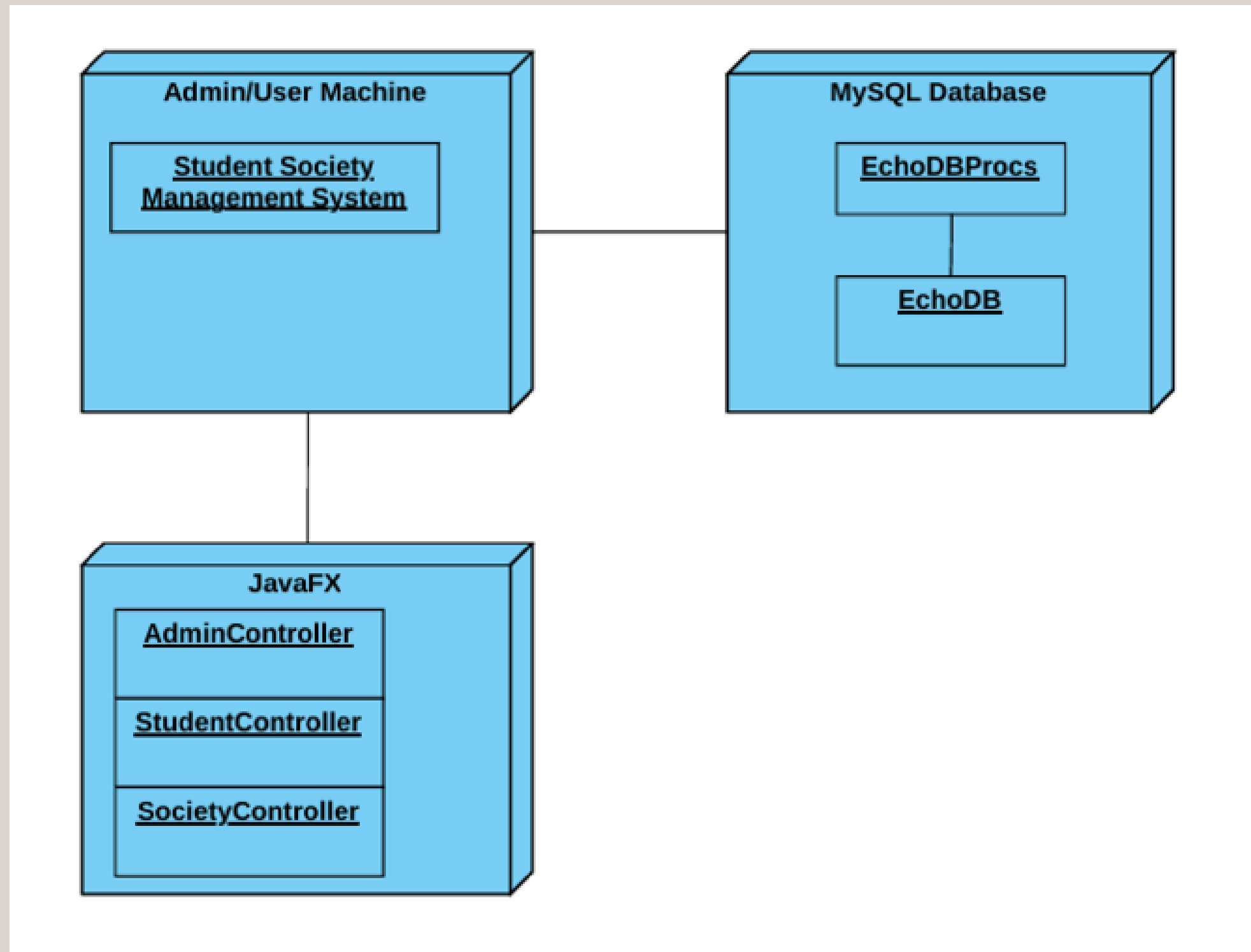
GRASP PATTERNS

01 Creator: Admin creates Society. Society creates Event

02 Information Expert: Society has information about members and roles. Admin has information about societies.

03 Low Coupling

04 High Cohesion

05 Controller: Student / Society / Admin

06 Pure Fabrication: SQLHandler. Conceptual but exists for functionality.

GoF PATTERNS

01 **Factory**

02 **Singleton**

03 Observer

04 Adapter

GUI SCREENS

Hello!

FAST NU ECHO

ADMIN

Add a New Society

Manage Events

Manage Societies

Add a New Venue

Manage Venues

FAST NU ECHO

Society Name

- Home
- Notifications
- Profile
- Organize an Event
- Manage Members
- Manage Roles
- Make a Post
- Make Announcement

Organize Event

Event Name

Event Date

Event Start Time [HH:MI:SS]

Event End Time [HH:MI:SS]

Event Description

Event Venue

Submit For Approval

FAST NU ECHO

Welcome, Ahmed Murtaza Malik   November 26, 2024

Ahmed Murtaza Malik

Roll No: 123456

Home

Notifications

Profile

My Societies

Apply to a Society

Make a Post

Admin Window

FAST NU ECHO

Welcome, Admin | November 26, 2024

ADMIN

Add a New Society

Manage Events

Manage Societies

Add a New Venue

Manage Venues

Add a New Society

Society Name

Society E-Mail

Society Description

FAST NU ECHO

Science Club | November 26, 2024

Society Name

Home

Notifications

Profile

Organize an Event

Manage Members

Manage Roles

Make a Post

Make Announcement

Make an Announcement

Title | Enter Announcement Title

Content | Enter Announcement Content

Announce

FAST NU ECHO

Ahmed Murtaza Malik

Roll No: 123456

Home

Notifications

Profile

My Societies

Apply to a Society

Make a Post

My Societies

Society Name	Role
Science Club	Secretary

Leave a Society: [dropdown] Leave

Thank You.