



Phase 2: College Enrollment System

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Introduction

The Software design document provides a comprehensive design of the College Enrollment System, elaborating on and expanding the specifications laid out in the Software Requirements Specification. It outlines the system architecture, component responsibilities, class designs, Use Case Diagrams, and sequence Diagrams.

System Architecture

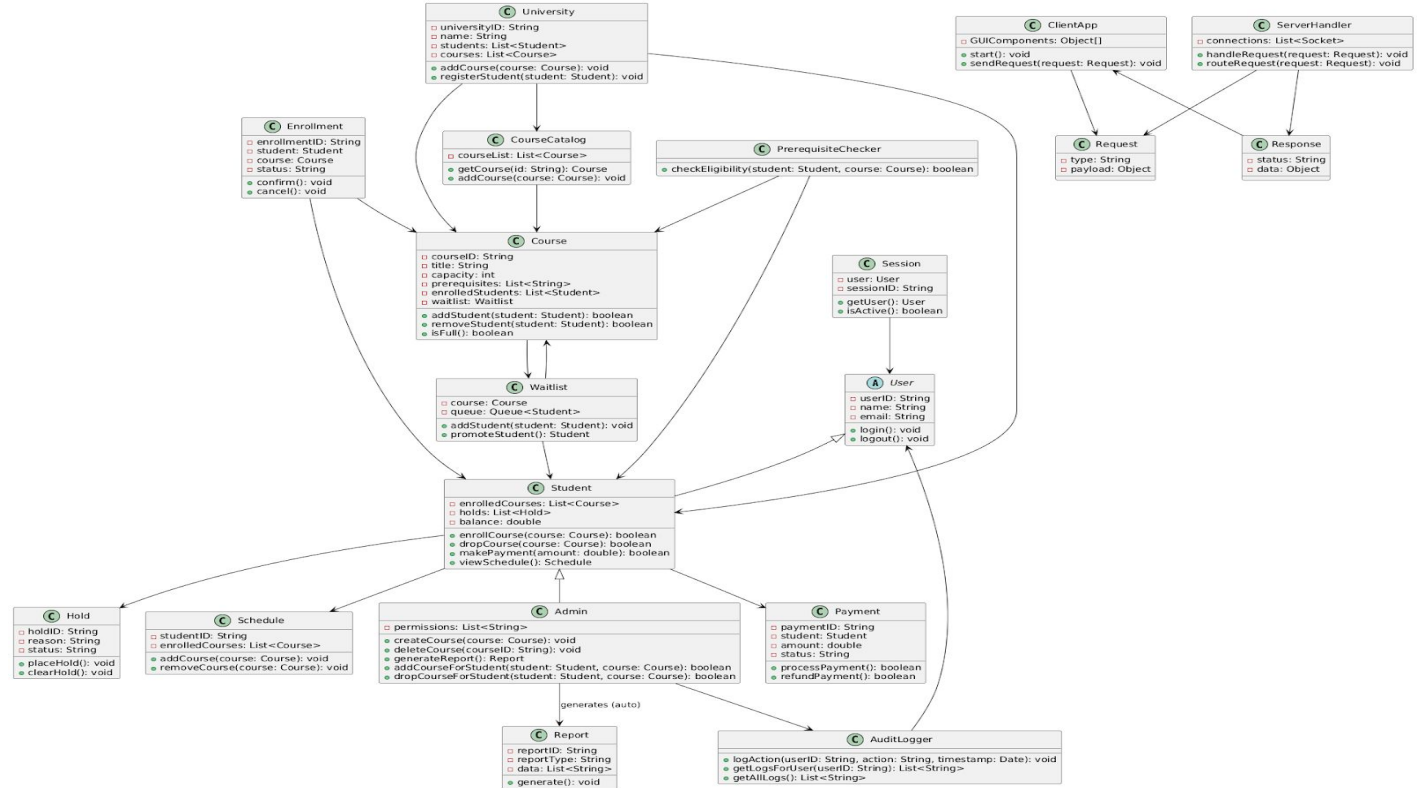
The system follows a client-server architecture. The client application provides the GUI for user interactions, while the server handles business logic and data processing. Communication between the client and server occurs over TCP/IP.



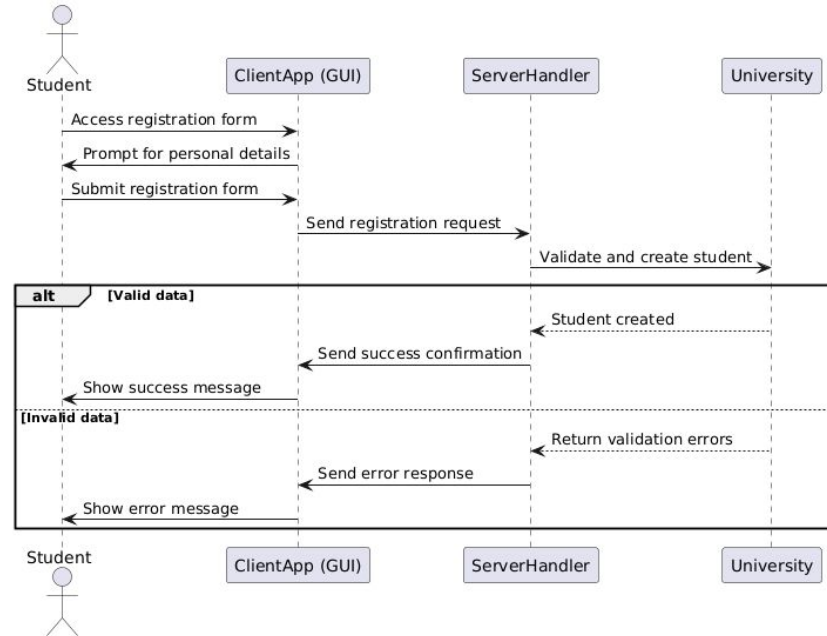
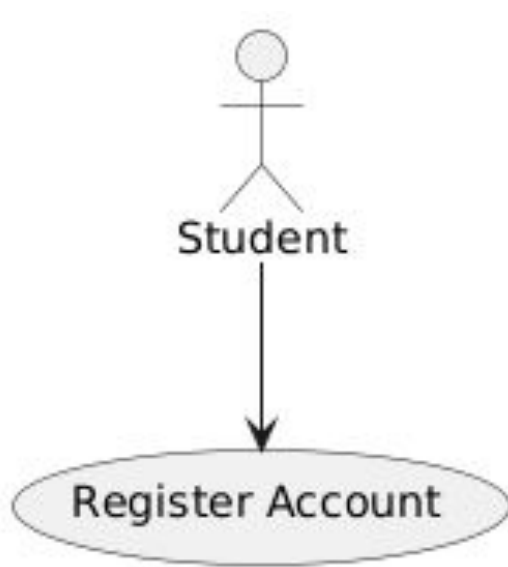
Classes

- User (abstract)
- Student
- Admin
- Course
- University
- Enrollment
- Waitlist
- Payment
- Hold
- Report
- PrerequisiteChecker
- Schedule
- LoginManager
- ServerHandler
- ClientApp
- Request
- Response
- Session
- CourseCatalog
- Notification

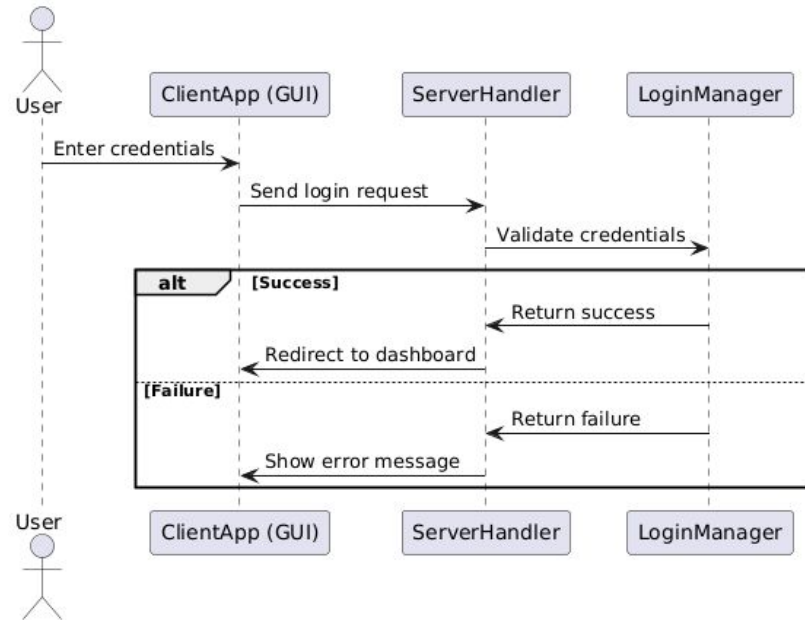
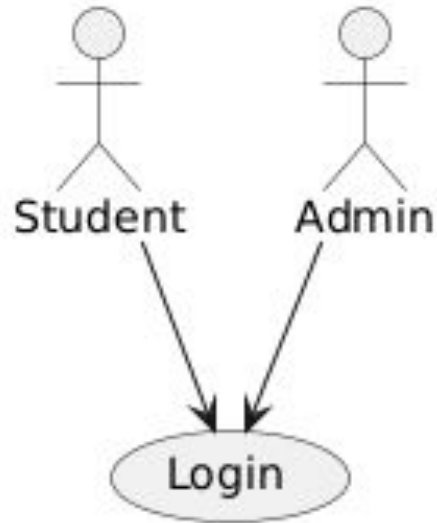
Class Diagram



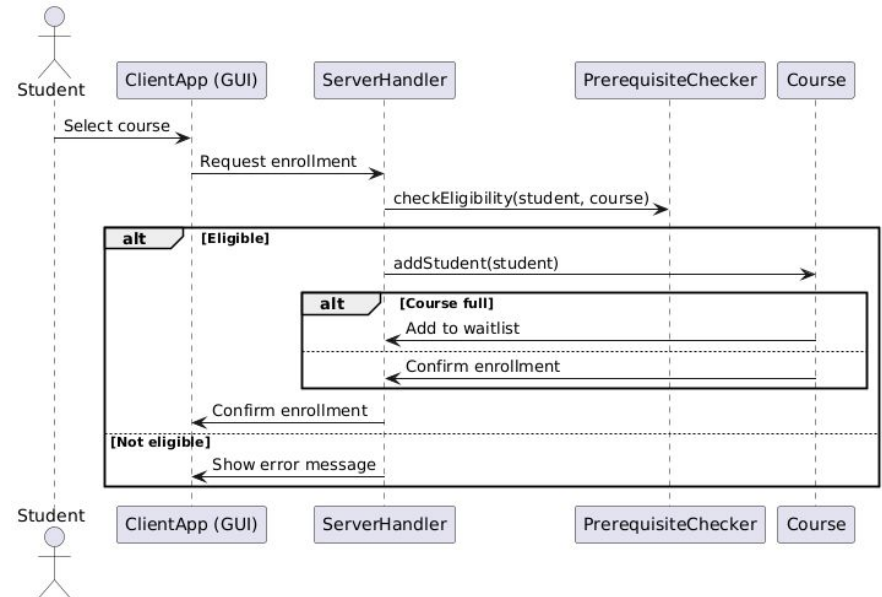
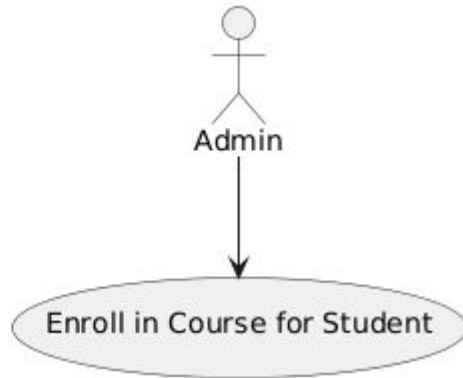
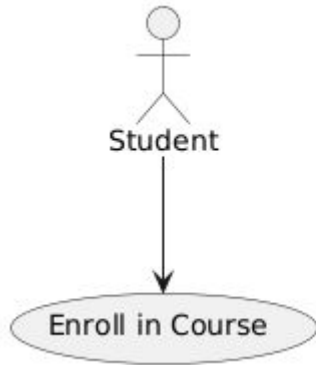
Use Case 01: Student Registration



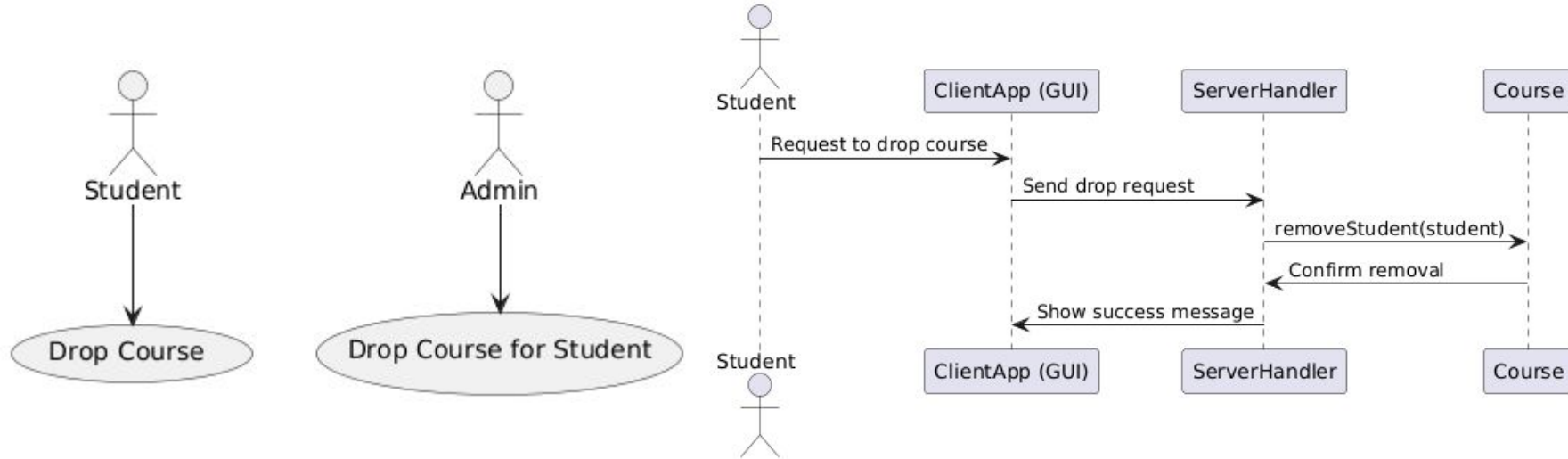
Use Case 02: Login



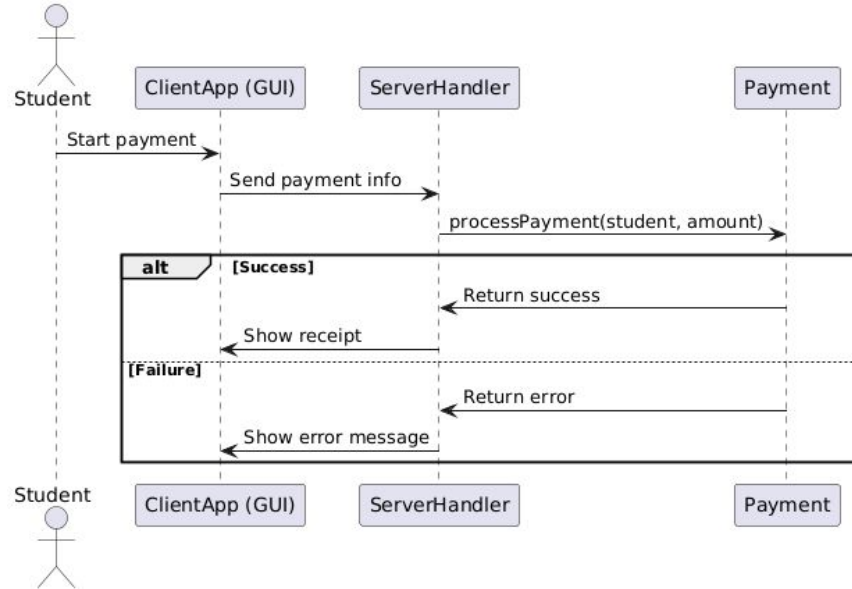
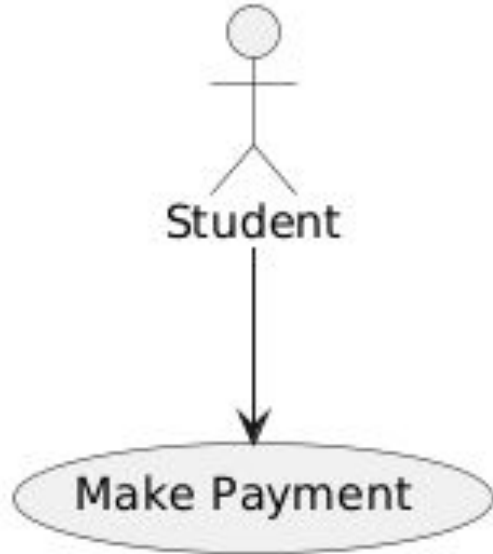
Use Case 03: Course Enrollment



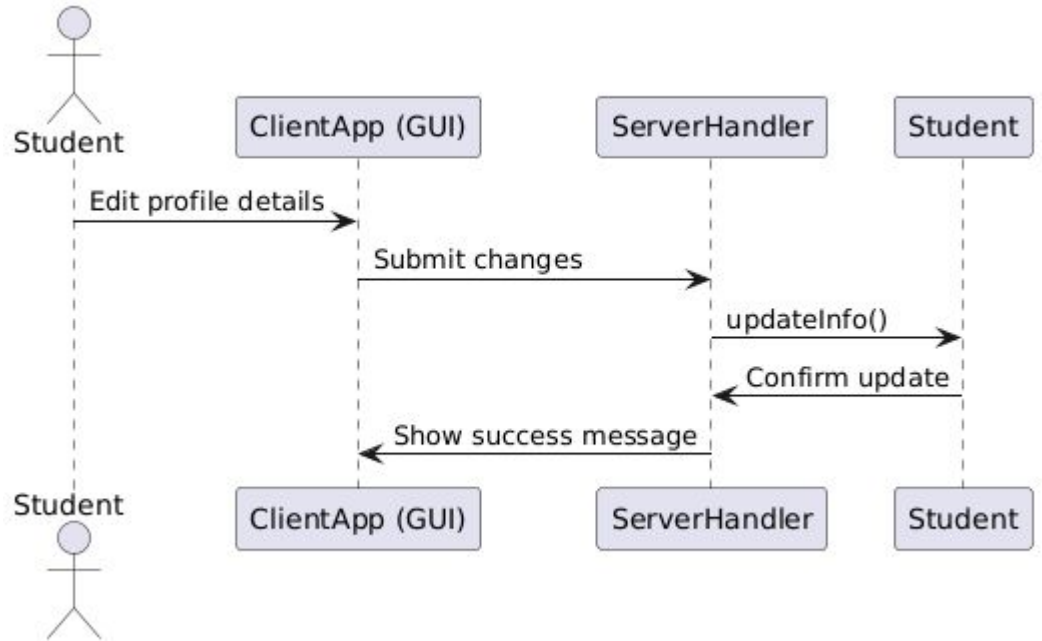
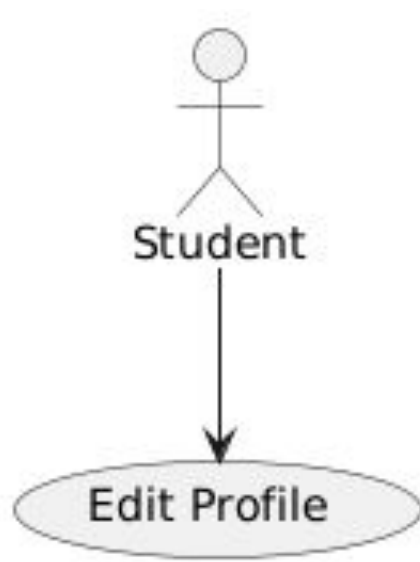
Use Case 04: Drop Course



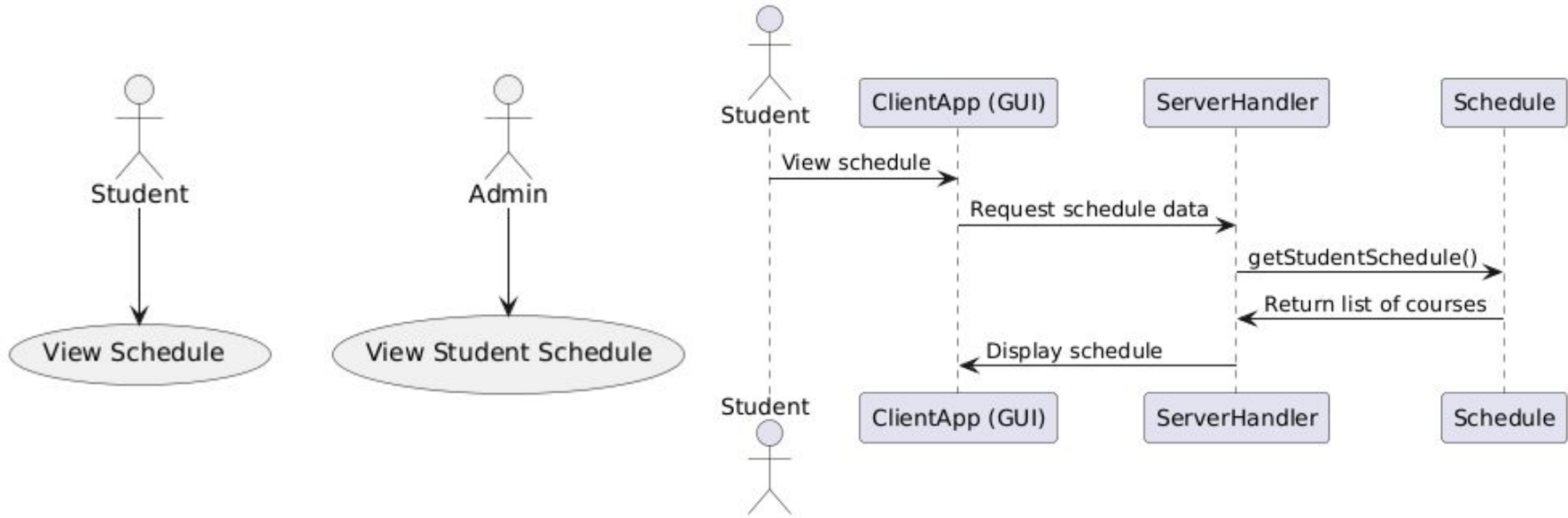
Use Case 05: Payment Processing



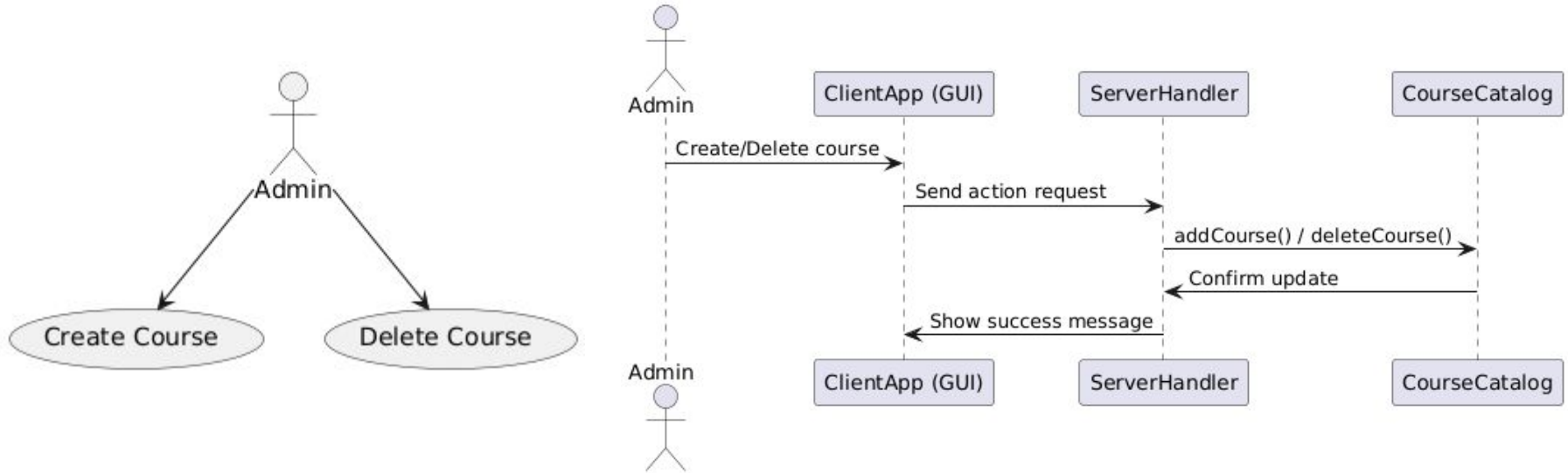
Use Case 06: Manage Student Profile



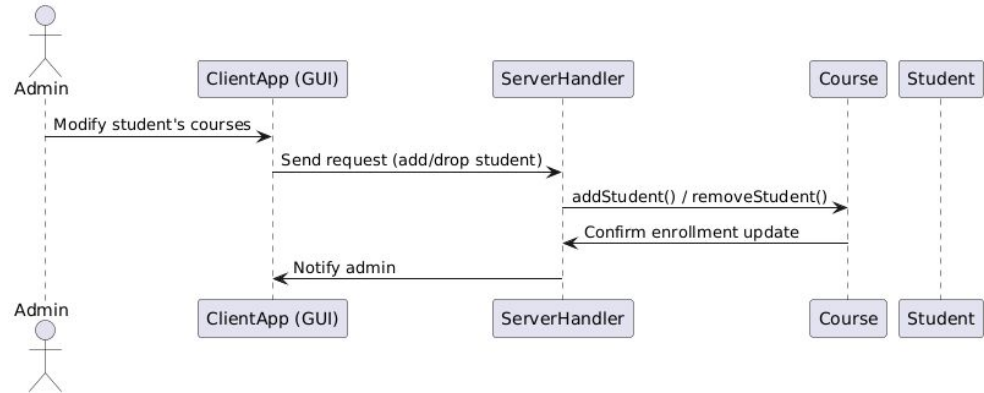
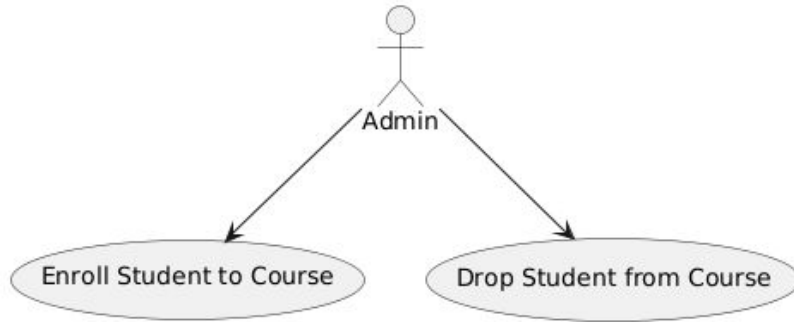
Use Case 07: View Schedule



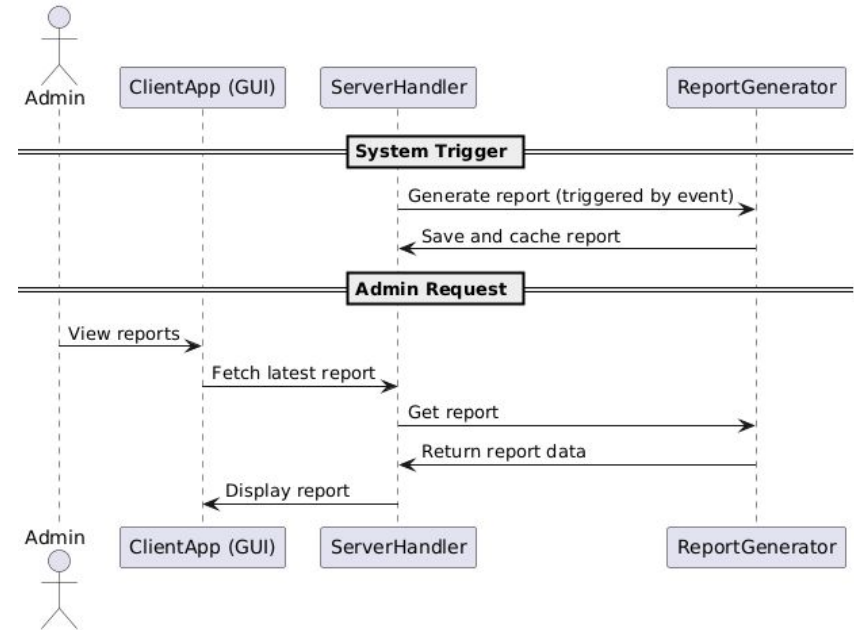
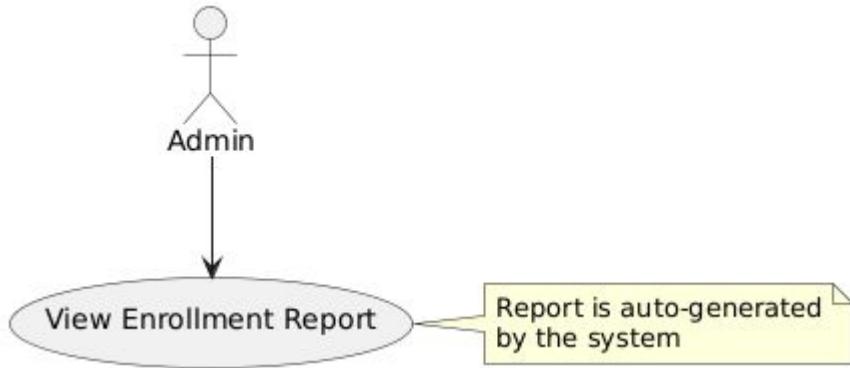
Use Case 08: Admin Creates/Deletes Course



Use Case 09: Admin Manages Student Enrollment



Use Case 10: Auto-Generate Reports



Trello Board

The screenshot displays a Trello board for the 'Enrollment College System' workspace. The board is organized into six lanes, each representing a team member or a specific task category. Each lane contains a list of tasks, many of which are marked as complete with a green checkmark. Tasks often include due dates and are associated with specific team members, indicated by initials in colored circles (e.g., SQ, AM, CR, FG). The top of the board features navigation and utility icons, including a search icon, a 'Get started with TeamGantt' button, and various automation and filter options. The rightmost lane, titled 'Meeting Times', lists a series of meetings with their respective dates.

Enrollment College System ☆ Workspace visible Board

Get started with TeamGantt Power-Ups Automation Filters SQ AM CR FG Share

- To Do - Svein**
 - ✓ Created gantt chart/trello board. (SQ)
 - ✓ Finish the Presentation Slides for Phase 1. (Feb 28 - Mar 4, SQ)
 - ✓ Finished the Presentation Slides. (Mar 4, SQ)
 - ✓ Work on updating the schedule and on the slides. (Mar 4 - Apr 9)
 - + Add a card
- To Do - Aakkash**
 - ✓ Created SRS document. (AM)
 - ✓ Created UML Diagrams
 - ✓ Work on the Design Document itself. (Mar 31 - Apr 9)
 - + Add a card
- To Do - Christian**
 - ✓ Created presentation slides. (CR)
 - ✓ Created Use Cases
 - ✓ Start on the Phase 2 Presentation Slides. (Mar 31 - Apr 9)
 - + Add a card
- To Do - Felipe**
 - ✓ Assisted in understanding of SRS document, Use cases, and UML diagrams. (Feb 28 - Mar 4, FG)
 - ✓ Created Github repository and granted access for group members to use/edit Github repository. (Feb 28 - Mar 4, FG)
 - ✓ Work on the UML Sequence Diagrams for the Design Document. (Mar 31 - Apr 9)
 - + Add a card
- To Do - Team**
 - ✓ Project Presentation project.init() (Top 10 Requirements). (Jan 27 - Feb 5)
 - ✓ Phase 1 Project Presentation (Top 10 Requirements and Top 5 Classes). (Feb 10 - Mar 5)
 - Phase 2 Project Presentation. (Mar 10 - Apr 9)
 - Final Project Presentation. (Apr 14 - May 7)
 - + Add a card
- Meeting Times**
 - February 14 - Feb 14
 - ✓ February 19 Meeting through Discord. (Feb 19 - Feb 19)
 - ✓ February 21 Meeting through Discord
 - ✓ February 26 Meeting through Discord
 - ✓ February 28 Meeting through Discord
 - ✓ March 7 Meeting
 - ✓ March 14 Meeting
 - ✓ March 21 Meeting
 - ✓ March 28 Meeting
 - ✓ April 2 Meeting
 - ✓ April 4 Meeting
 - + Add a card

Gantt Chart

✓ To-Do

<input type="checkbox"/>	Task		Assigned	Status ⓘ	Due date ⓘ	Files	Timeline ⓘ	Dependent On ⓘ
<input type="checkbox"/>	Requirements	+		Done	Mar-3		! Jan 27 - Ma...	
<input type="checkbox"/>	Design	+		Done	Apr-9		✓ Mar 3 - A...	Requirements
<input type="checkbox"/>	Implementation	+		Working on it	Apr 28		Apr 9 - 28	Design
<input type="checkbox"/>	Testing	+		Not Started	May 3		Apr 28 - May 3	Implementation
<input type="checkbox"/>	Maintenance	+		Not Started	May 7		May 3 - 7	Testing

Gantt ▾

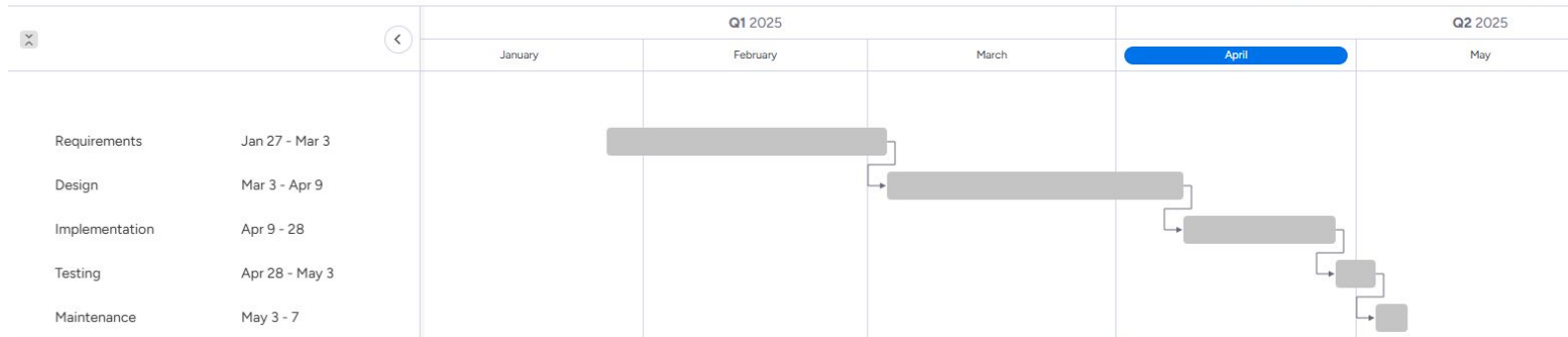
Baseline

Auto Fit

Months ▾

- +

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THANK YOU