SDA project

Educore

BY-:

Twaha Nadeem (22I-0944)

Moazzam Hafeez(22I-1093)

Shahreyar Rizwan(22I-0999)



Educore:Next Generation Student Management System

# *Scope:*

This project is designed to develop a new and improved Student Management System for Fast Nuces.Our team will create a web-based platform which will cater to all academic administrative needs, allow users to interact with one another. EduCore will provide essential features like seamless student registration, course management, attendance tracking, and real-time communication.

# Objective:

The main objective of the project is to create a robust and user-friendly SMS that outperforms the existing system in terms of speed, accuracy, and functionality.Our system would provide a streamlined, intuitive interface for both administrators and students.Students will be able to enjoy essential features like real-time attendance tracking,grade calculation, assignment submission and feedback. Furthermore our communication portal would allow seamless interaction between professors and students without the need to use third-party apps. Essentially our objective is to create a platform which has everything a student or admin needs without the need of using other apps.

# Problem Statement:

|  |  |
| --- | --- |
| **The problem of** | Inefficient student management system with constant breakdowns,inefficient grade management systems and lack of connectivity |
| **Affects** | Students,Professors,Educational Institute |
| **The impact of which is** | The need to use third-party apps for connecting,inaccuracies in attendance tracking and grade management and wastage of time. |
| **A successful solution would be** | A revolutionary new SMS designed to provide a  user-friendly experience to all users which encompasses all the essential requirements of a modern university. |

**Outline-:**

**Use cases-:**

1-UpdateAttendance

2-CommunicateviaPortal

3-CalculateGrade

4-SetOfficeHours

5-PrintTranscript

6-SubmitAssignment

7-DetectPlagiarism

8) Give Assignment Feedback

9)Grade Change Request Validation

10- Register Course

11-UpdatingAcademicCalendar:

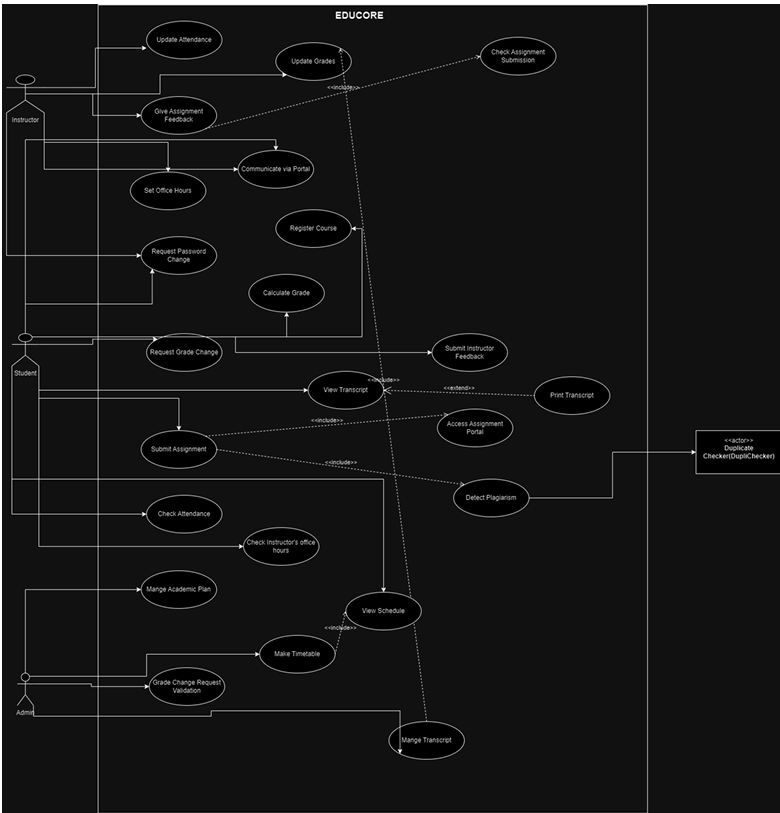
12-GradeChangeRequest:

13-Change Login Password:

14-AnonymousFeedbackSubmission

15-AccessTimetablebySection

**Use case diagram**



**Functional Requirements-:**

1)Assignment uploading

2)Feedback

3)Adding students

4)Gpa calculator

5) plagiarism detector

6) print transcript

7) schedule appointments with teachers

8) grade change request

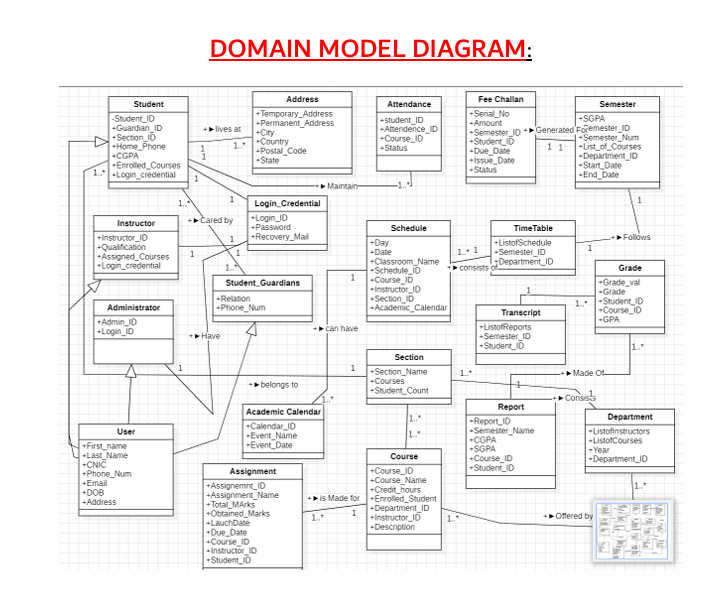
**Non Functional Requirements**

1)Performance

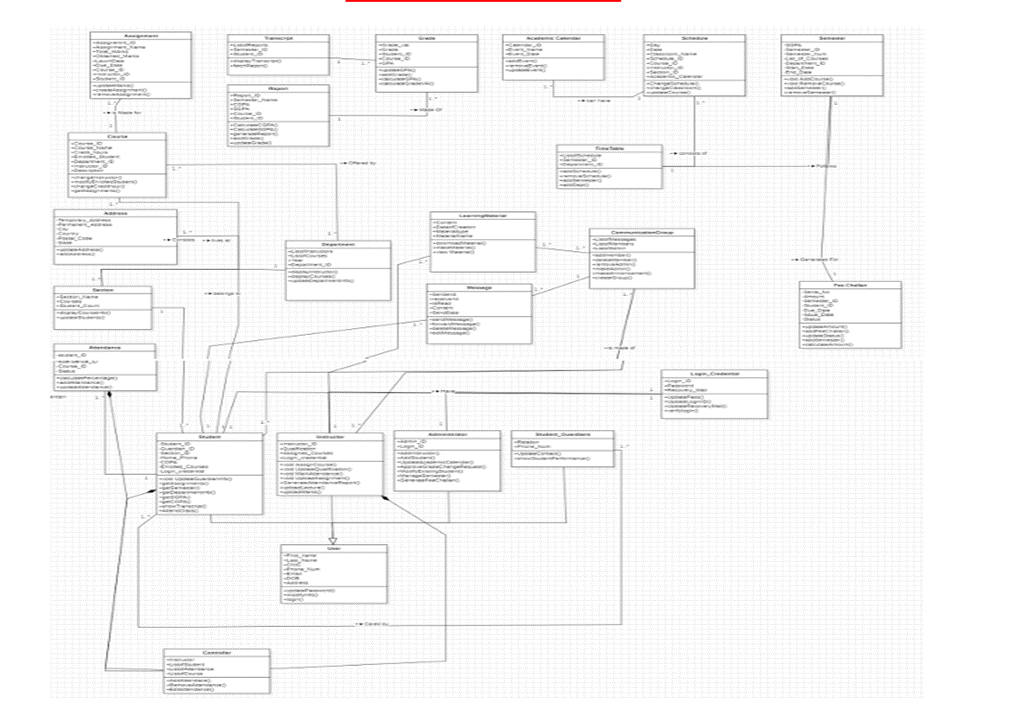
2)Scalability

3)Usability

4)Data Integrity

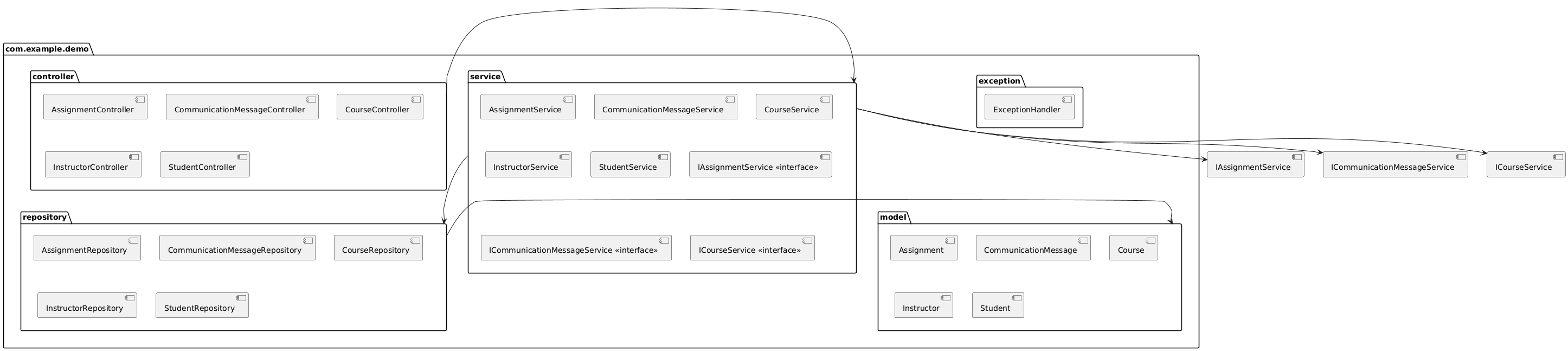


Class diagram-:

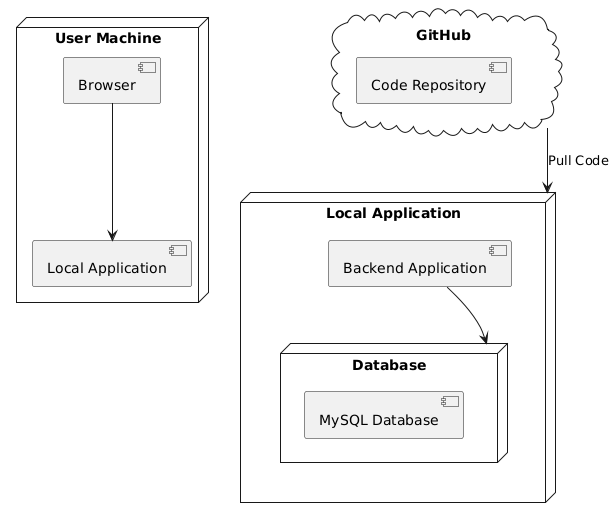


:

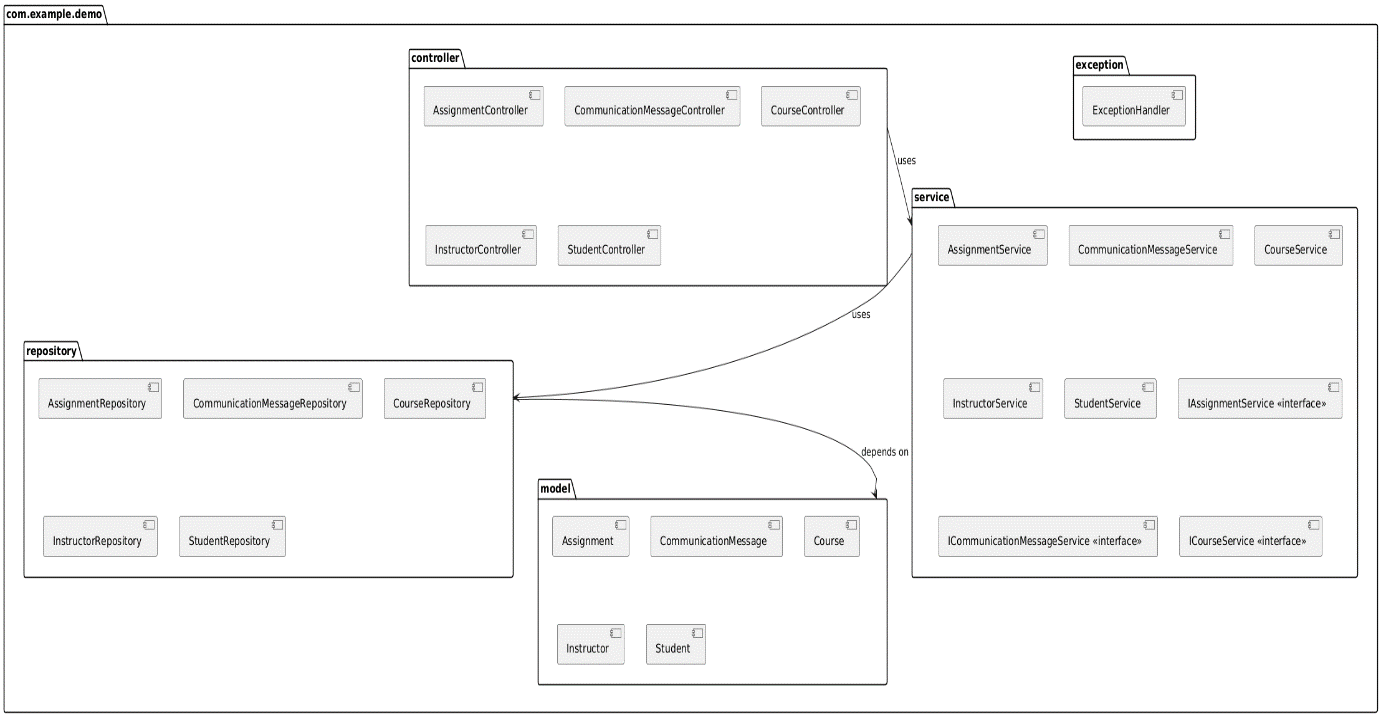
**Component diagram-:**



**Deployment diagram-:**

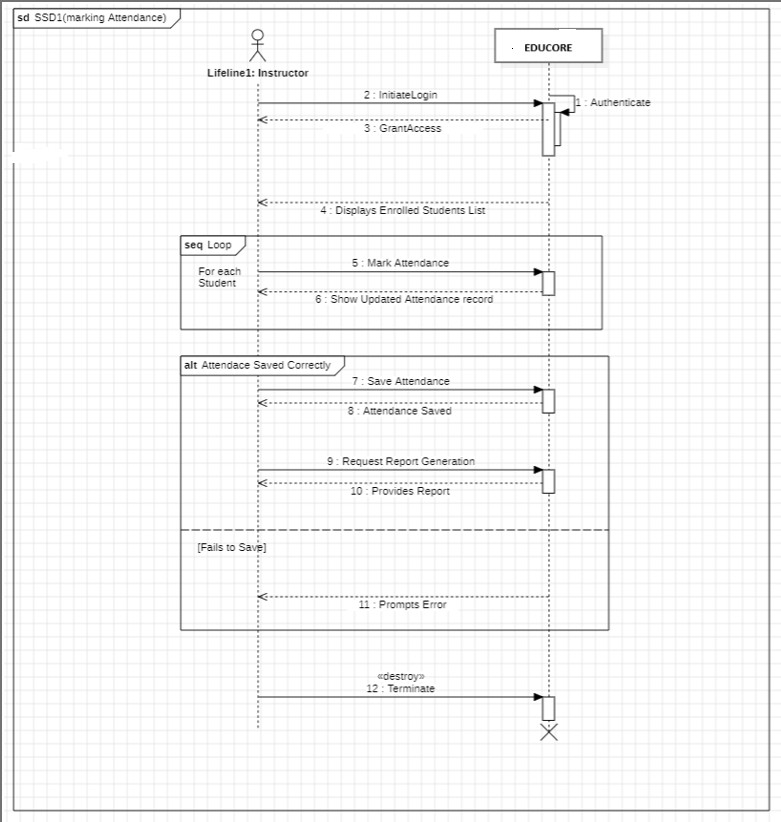


**Package diagram-:**

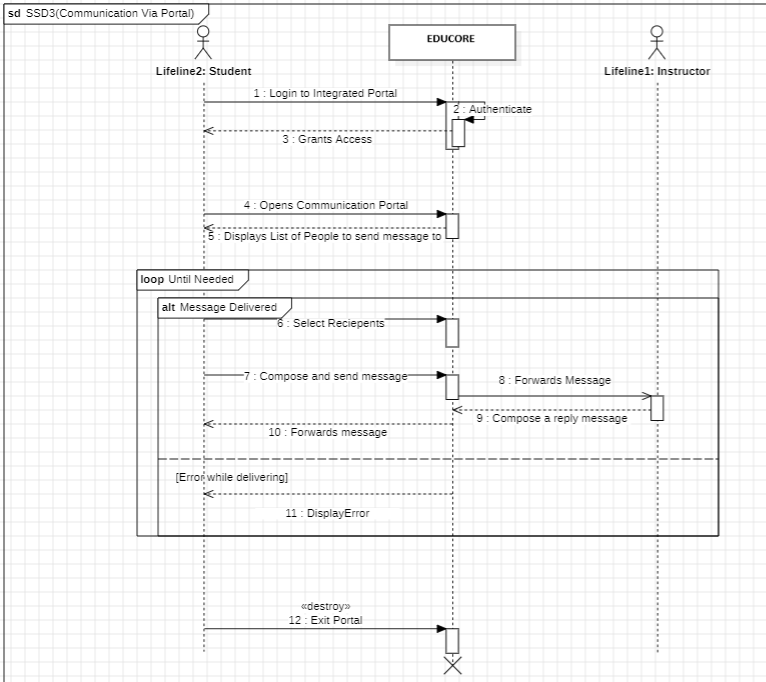


System Sequence Diagrams ( SSD’s ):

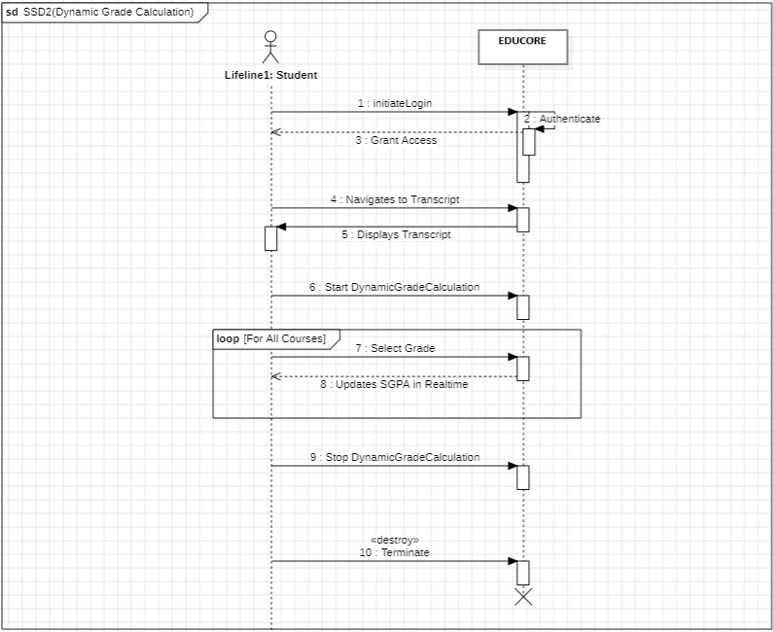
1. Update Attendance:



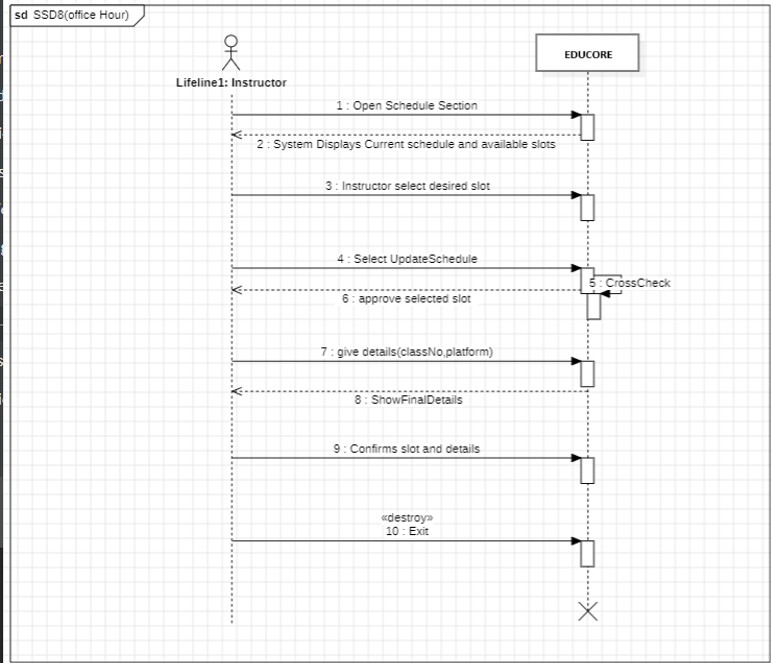
1. Communicate Via Portal:



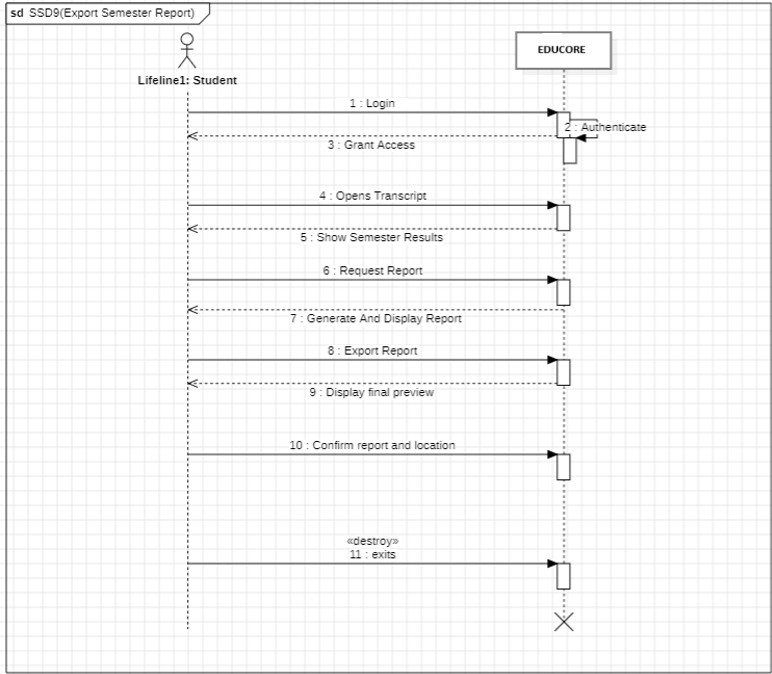
1. Calculate Grade:



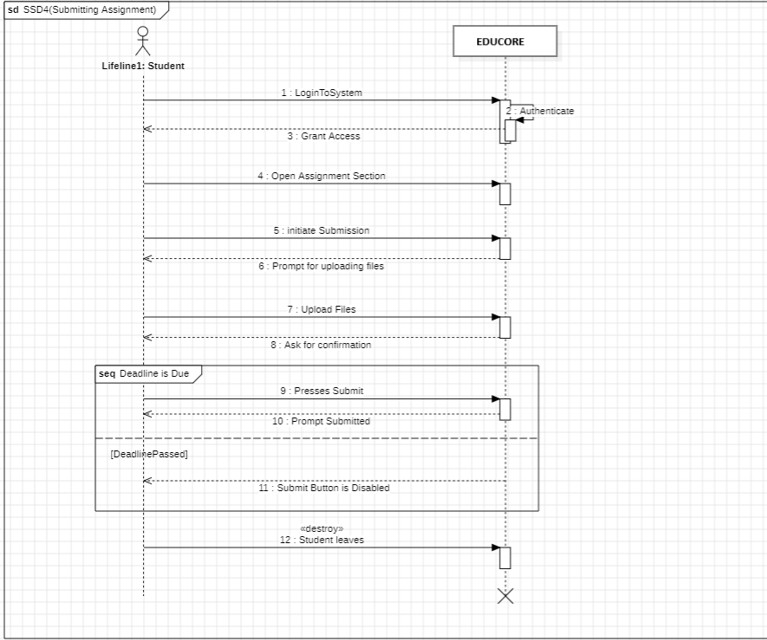
1. Set Office Hours:



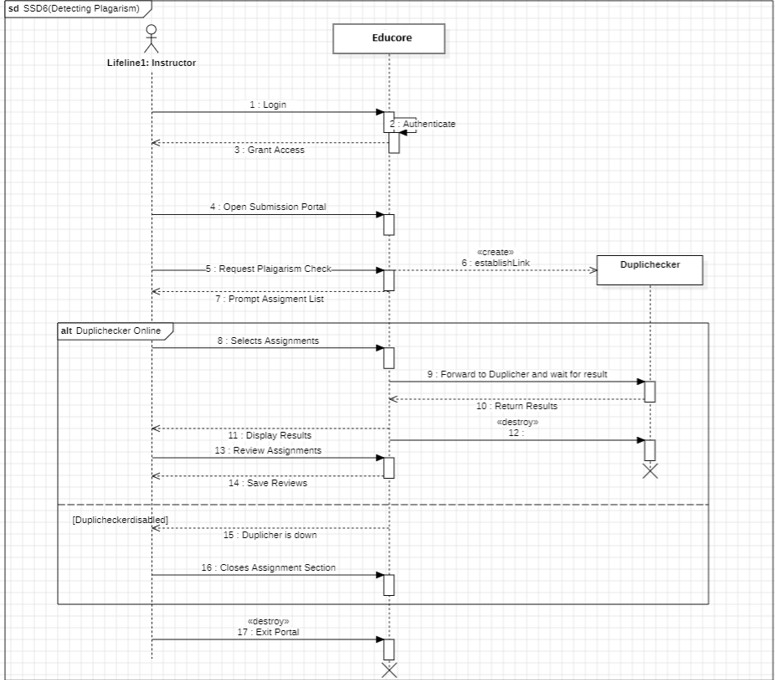
1. Print Transcript:



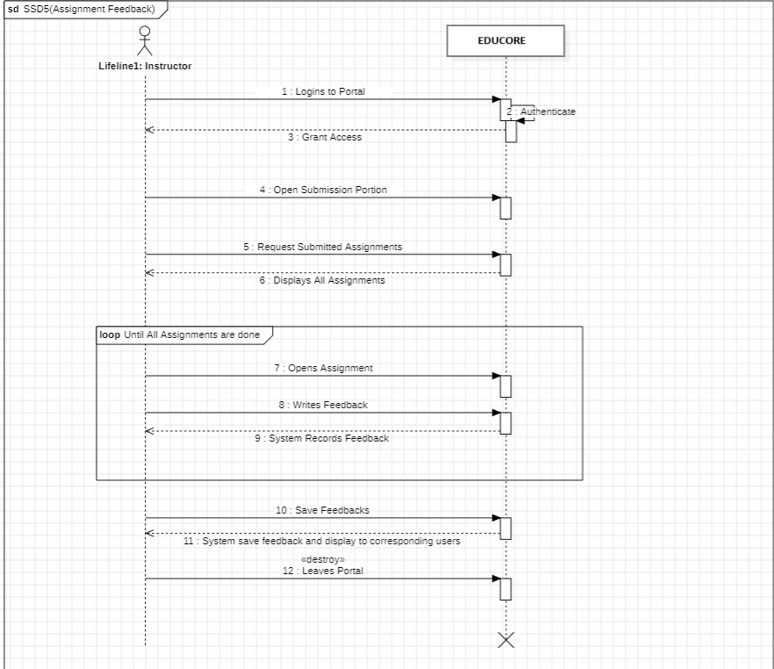
1. Submit Assignment:



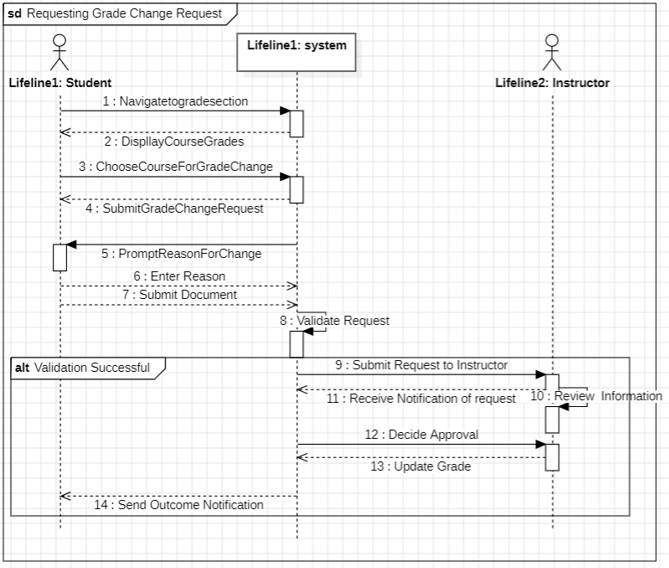
1. Detect Plagiarism:



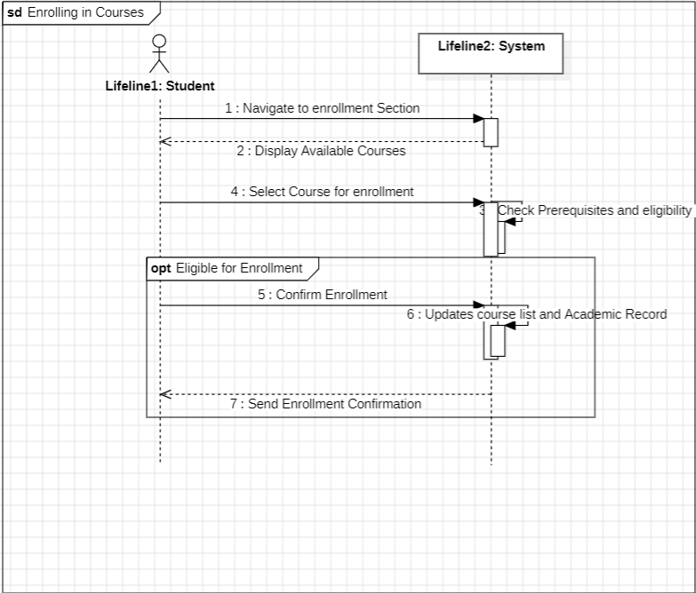
1. Give Assignment Feedback:



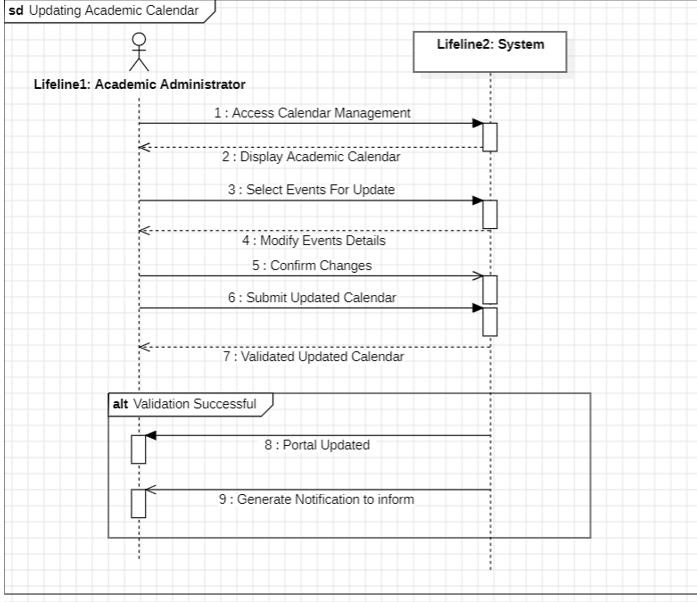
1. Grade Change Request Validation:



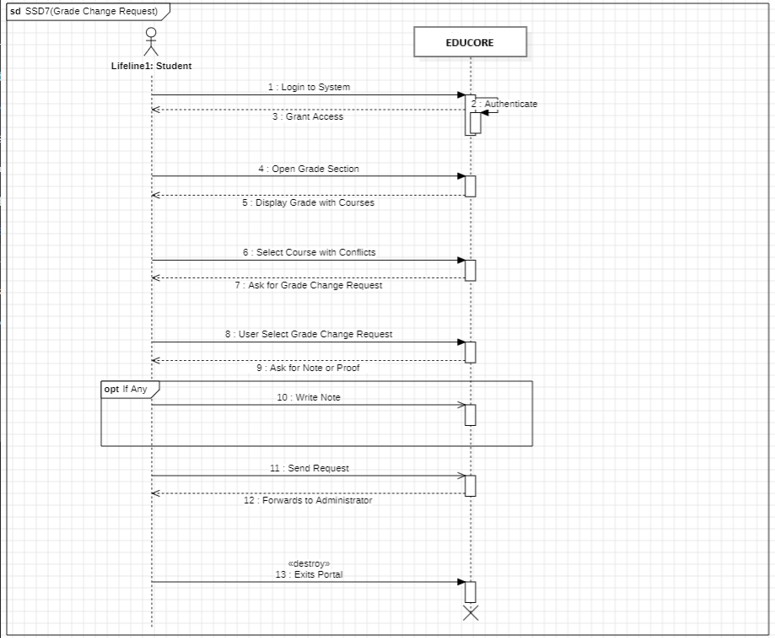
1. Register Course:



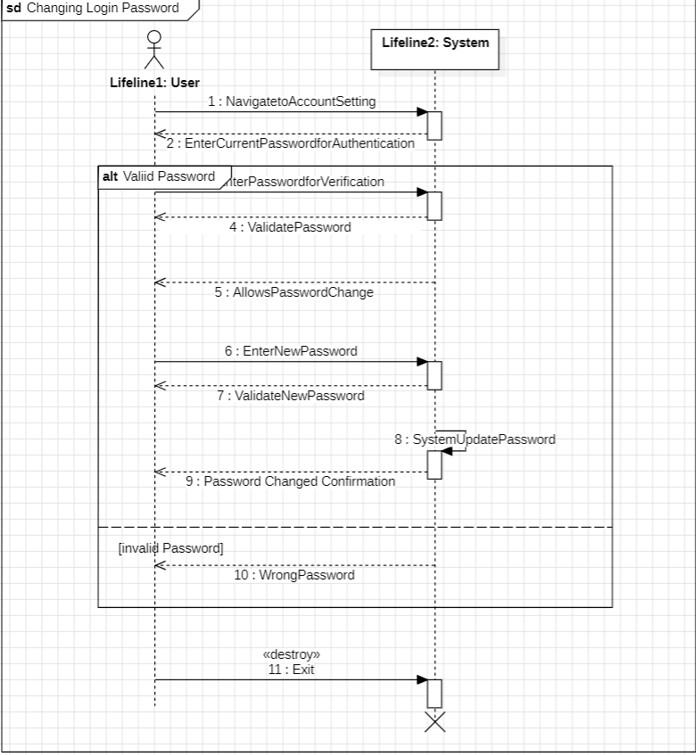
1. Updating Academic Calendar:



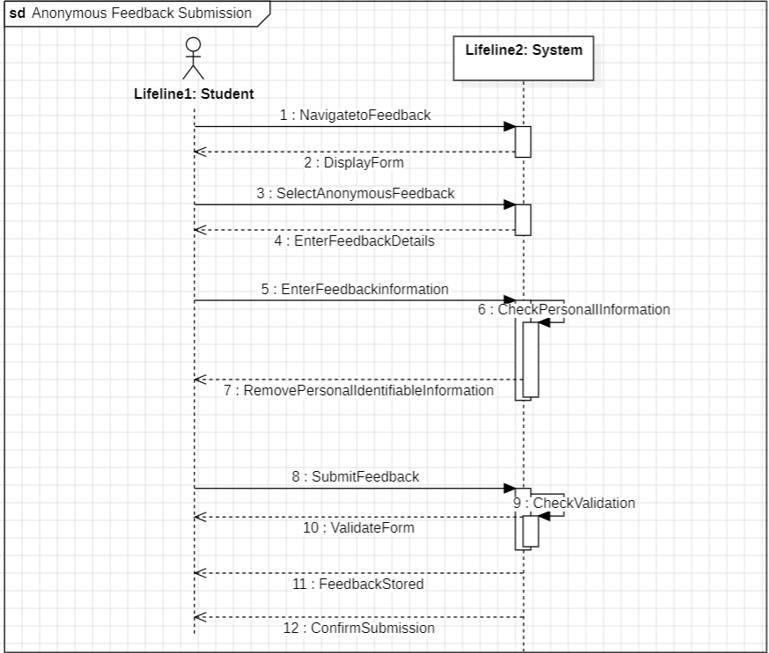
1. Grade Change Request:



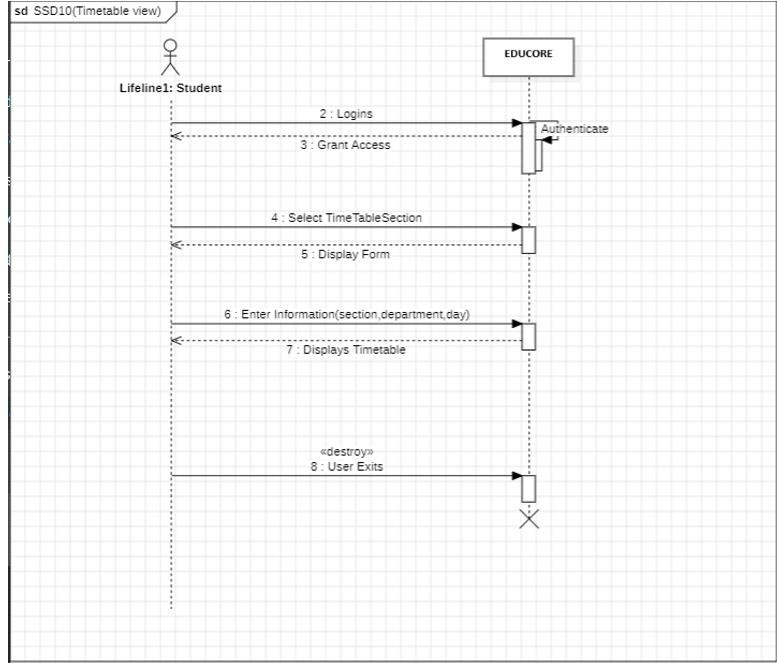
1. Change Login Password:



1. Anonymous Feedback Submission:



1. Access Timetable by Section:



Sequence Diagrams (SD’s):

