# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram, schematic

Description automatically generated

### UML Activity Diagrams

Diagram

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Diagram

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### UML Sequence Diagram

Diagram

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### UML Class Diagram

Diagram

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## Technical Requirements

The server will be on a cloud service platform with high uptime and up to date security patches. The server software will be written in Java and run on a Linux based machine. The server will have enough bandwidth to facilitate all possible client connections while transferring exam and course material. Authentication and authorization will be handled by the Apache Cocoon framework. MySQL will be utilized for databases containing client information, exam question bank, course information, and driver schedules.

The client will utilize the TLS protocol for secure communications with the server. The client software will require an up-to-date browser supporting modern encryption protocols and authentication frameworks.