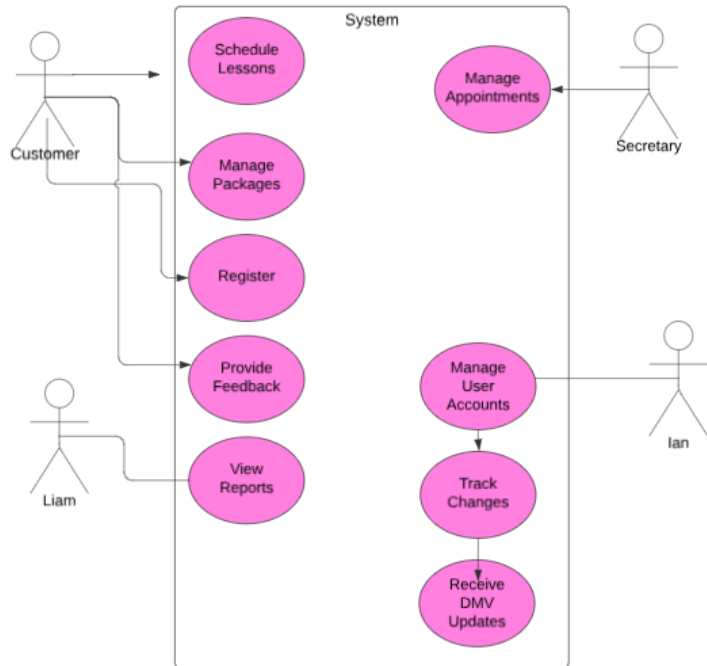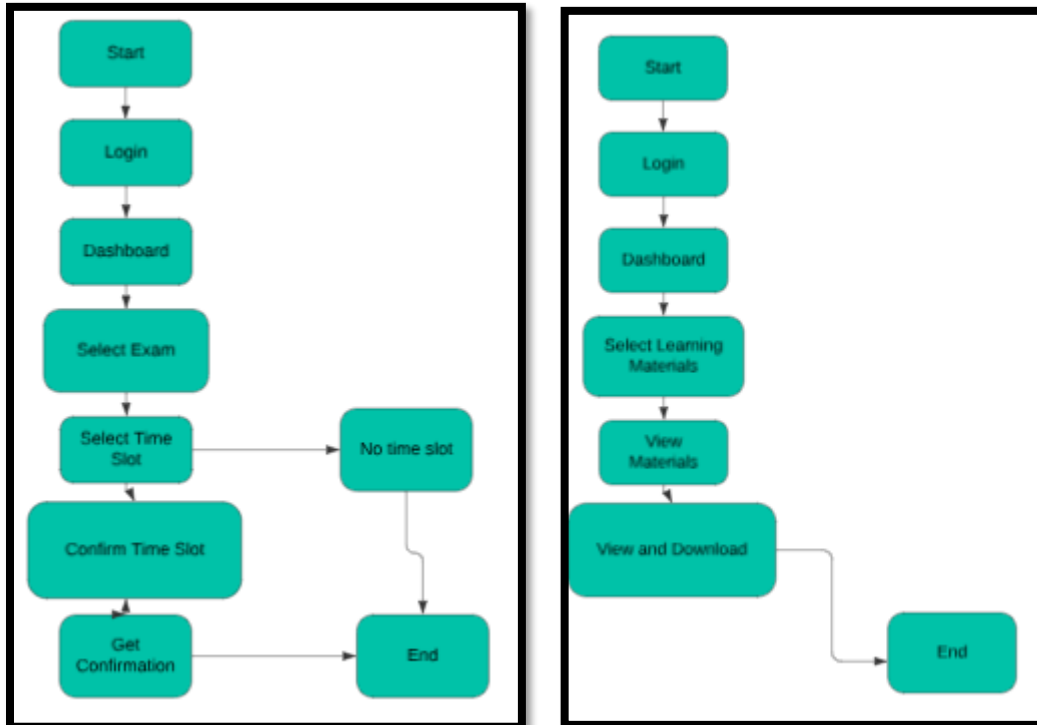# CS 255 System Design Document

## UML Diagrams

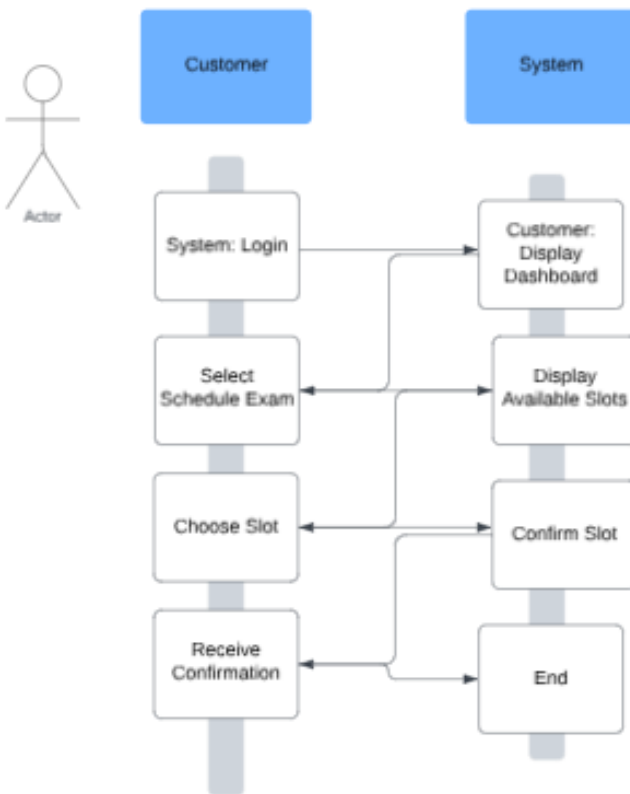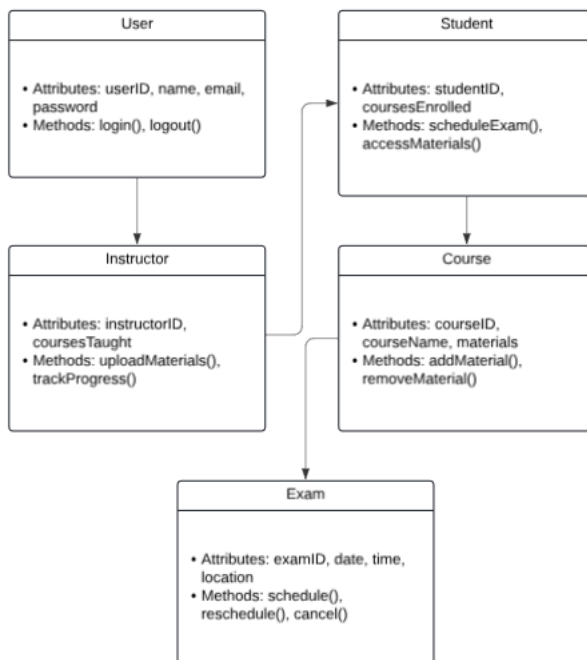### UML Use Case Diagram



### UML Activity Diagrams

## UML Sequence Diagram



## UML Class Diagram

## Technical Requirements

- Hardware: Servers that can support up to 2000 concurrent users with enough processing and storage power.
- Software: Major browsers are supported by this web-based program that runs on Linux, macOS, and Windows.
- Tools: Include user authentication systems, SSL/TLS for secure data transmission, and PostgreSQL or MySQL for database management.
- Infrastructure: Encrypted data transfer and storage, frequent upgrades, little downtime, and extensive logging for security and oversight.