# CS 255 System Design Document

## UML Diagrams

### UML Use Case Diagram

*Chart, diagram, bubble chart

Description automatically generated*

### UML Activity Diagrams

A picture containing diagram

Description automatically generatedDiagram, engineering drawing

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

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## Technical Requirements

*To meet the nonfunctional and functional requirements outline, the system design should include a server with sufficient processing power, memory, and storage to handle the expected workload. The network should be reliable and high-speed with appropriate security measures in place. Client devices should have modern web browsers installed, and the system should be secured with firewalls, antivirus, and other security measures to protect against cyber threats and unauthorized access to sensitive data. Backup and recovery strategies should be in place to ensure data integrity and system availability, and the system should be monitored to track performance and detect potential issues. A load balance may be need for future scalability to distribute traffic across multiple servers to ensure high availability.*