# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A picture containing chart

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

### Diagram Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

For hardware, the system will have to have access to the internet and be compatible with the top web browsers as well as being able to run on mobile devices so that the program can be accessed from anywhere. On the software side the system needs to be easy to use when setting up course creation so that the LMS allows teachers to easily deliver course content to the learners. The tools necessary for this system is first the LMS software needs to show students interactive features like discussion forums, video conferencing, and clickable courses. This function is how students and teachers would interact with course work as well as each other. Other tools would be support management access, views, and function, and security roles for each position like teacher, student, admin, and IT. The LMS system must have functionality to be able to support and distinguish the different roles that will access the system. The full infrastructure needed for this system would be, Laptops, computers, or mobile devices which is how users will have access. A full and constant access to an internet connection, databases to store all the necessary data to run the system and a server set up to be able to take request for information from multiple users.