# CS 255 System Design Document Template

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client’s needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.

## UML Diagrams

### UML Use Case Diagram

Diagram, schematic

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

Diagram, schematic

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The system has some technical requirement which is used to develop the system for the web using a cloud-based server, and a mobile version for the owner to be able to access downloaded data on the go. A cloud base database will be necessary to store login information and other information that is vital to the user. Any data being transferred between the user and the system will need to be encrypted via SSL to ensure data integrity and security. Using the cloud would allow information to be updated faster. This could be things like the training calendar for scheduling appointments. This is vital as we would not want to double or triple nook someone into the appointment with the same instructor. Roles will also need to be implemented. By this implementation each role will be locked into what their role allows them to do.