# 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

Graphical user interface

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generatedDiagram

Description automatically generated

User Login

User Purchasing Package

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Chart, diagram, box and whisker chart

Description automatically generated

## Technical Requirements

Based on the UML diagrams I have created, there are a few technical requirements needed to create the system. We will need to develop the system for the web using the cloud. There will be a mobile version of the website available for the owner to download data when he is on the go. We need a database to store user login information and other vital information. When data is transferred between the user and the system, the information must be encrypted via SSL to ensure security of the information. By using a cloud platform, we would be able to update information faster. This would include the training schedule and user progress on practice tests and quizzes. We will also need to implement all the different types of role-based access as provided by the customer.