# 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

Description automatically generated*

### UML Activity Diagrams

Create account use case:

*Diagram

Description automatically generated*

Teaching class use case:

*Diagram

Description automatically generated*

### UML Sequence Diagram

Creating account use case:

Diagram

Description automatically generated

### UML Class Diagram

Entire System Diagram:

*Diagram

Description automatically generated*

## Technical Requirements

I don’t want the initial technical requirements of this project to be extensive, the point of this project is to get version 1.0 off the ground as fast as possible. I want the web application to run straight off the web with no install. The mobile version can be downloaded via an app from the apple/google play store. Front-end will be made using HTML, CSS, and JS. We can use a framework like bootstrap to give it a nice and clean look. The back-end will be done with JS and a SQL database. We’ll JS both front-end and back-end so we have the same language across the project. For security and storage, I would like to use AWS since they can handle both those requirements, also this would make our end “serverless”. Of course, there’s going to be added cost with using AWS, but I believe the time it saves is worth it. I want this program to run on any basic smartphone or computer.