# 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

Diagram, schematic

Description automatically generatedDiagram, engineering drawing

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram, schematic

Description automatically generated

## Technical Requirements

Overall, this system isn’t a very highly technical program on the side of the customer but will be somewhat intensive on the side of the company. For the company, we would recommend going with a cloud-based server and SAAS given that the customer would not like to handle security. Additionally, the housing for the application will be stored within the cloud and the contents of the program and its users stored in state-based memory for some transactions, while the bulk of the account-based information will be stored in cloud servers. The customer will need internet with a strong enough signal to connect for a sustained amount of time in the case of assigned material or learning material. For the sake of hardware, the program is primarily web-based, with accessibility allowing for offline viewing of appointments and limited information. The system will primarily run through a custom UI made by our company that functions through the internet on a web-based platform. This effectively reduces the needs for technical requirements for the customers as a whole, making it more accessible for all.