# 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

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram, engineering drawing

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

Our system will need constant and steady internet connection to function properly. For this reason, we will need to make our system function via the cloud and server-based systems. Operating via servers means that the company will need to either have a physical database center or use a third-party database. This is to help store all the data such as usernames and passwords for all users and ensure that they are protected from outside data attacks. The data needs to be encrypted via an SSL to protect the communication of data between the servers and the users. Access to data needs to be allowed to certain users such as IT admin and the owner. The IT admin will need access to user accounts in regard to resetting passwords, or secretaries to make and schedule appointments. The server needs to be able to securely identify users with these privileges.