# 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

Description automatically generated

### UML Sequence Diagram

*Diagram

Description automatically generated*

### UML Class Diagram

Diagram, box and whisker chart

Description automatically generated

## Technical Requirements

*[Based on the diagrams you have created, describe the technical requirements of your system. These requirements should address the required hardware, software, tools, and infrastructure necessary for your system design.]*

There are some technological prerequisites for our system. In order for the owner to access downloaded data while on the road, we will need to create our system both for the web using the cloud and for mobile devices. To store login credentials and other important data, whether it be in the cloud or a physical data center, we will need some kind of database. To guarantee data integrity and security, all data being exchanged between a user and our system, or even any data being shared internally, must be secured using SSL. Information, such as the training calendar for setting up appointments or the tracker for a user's training progress, might be updated more quickly by using a cloud platform. Role-based access must be introduced as well since the owner may perform tasks that a client cannot, the IT officer can perform tasks that the secretary can perform, etc.