# CS 255 System Design Document Template

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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

*A diagram of a company

Description automatically generated*

### UML Activity Diagrams

*A diagram of a process

Description automatically generated*

### UML Sequence DiagramA diagram of a username Description automatically generated with medium confidence

### UML Class Diagram

*[You were asked to create a class diagram based on the different classes and attributes needed for your system design. You are* ***not*** *required to include methods, but you may if you wish. Please insert your class diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s requirements.]*

A diagram of a computer

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.]*

The system has a few technological requirements. We will need to create a cloud-based system for the web, as well as a mobile version that allows the owner to access downloaded data while on the go. We'll need a database, whether cloud-based or in a physical data center, to store login details and other critical information. Any data exchanged between a user and our system, or even data shared internally, must be secured using SSL to maintain data integrity and security. Using a cloud platform allows information to be updated more quickly, such as the training calendar for scheduling appointments or the tracker for a user's training progression. Role-based access must also be implemented, as the owner can do.