# 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

### A screenshot of a computer Description automatically generatedUML Activity Diagrams

### UML Sequence Diagram

### UML Class Diagram

*A screenshot 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.]*

* Server/Database: to store user, lessons, and scheduling information. Run the website off as well. Needs proper back up system, power back up, as well as plenty of storage to curriculum.
* Internet connection: basic requirement to have the website reach the masses.
* Security: Like any website that involves people’s private info and payment information, a proper firewall and stringent authentication levels for the database.
* Server software: implementation such as Windows server which is widely used for ease of use and stability among databases. As well as proper implementation of the programming languages an APIs to implement a database properly i.e. SQL, Apache, Python, PHP
* Data center: this is vital, either it be leased from a third-party company or owned by the client is important to invest in a proper data center that has the above-mentioned, in “Server/Database” section, for the basic functionality.