# 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 diagram of people with white circles

AI-generated content may be incorrect.*

### UML Activity Diagrams

*A screenshot of a computer screen

AI-generated content may be incorrect.*

### UML Sequence Diagram

*A screenshot of a computer

AI-generated content may be incorrect.*

### UML Class Diagram

*A computer screen with a black background

AI-generated content may be incorrect.*

## Technical Requirements

With all this information we would likely need a cloud server system somewhat akin to Amazon web services to likely run the website along with a server system to house data and be the main back up to keep the website up and hold storage. The server system would require 2 terabytes of storage and about 64 gigabytes of ram and a CPU with 16 or more cores to run the website if AWS is not chosen. A good server OS to use would be Linux as it is free and flexible to use. With all these hardware specs we could successfully run a website with dynamic applications to run the test and set schedules with high traffic.