# 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 generated

### UML Activity Diagrams

A computer screen shot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

### UML Sequence Diagram

A screenshot of a computer

Description automatically generated

### UML Class Diagram

A computer screen shot of a computer program

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## Technical Requirements

The technical requirements for the proposed system are as follows:

* Hardware
  + Cloud based servers to serve for various web browsers (i.e., Chrome, Firefox, Edge).
  + Client/stakeholder devices running modern web browsers.
    - Smart Phone
    - Tablet
    - Laptop
    - Desktop
* Software
  + Up-to-date security integration
  + A web-based distributed system that runs on the operating system to match client budget.
  + Support across various browsers as mentioned previously such as:
    - Google Chrome
    - Firefox
    - Opera
    - Edge
  + Ability to run on different OS’s such as Windows, Linux, etc.
* Tools
  + UML Diagrams for the following:
    - Use Cases
    - Activity
    - Sequence
    - Classes
  + Suitable environments for developmental purposes (i.e., provided laptop/desktop and/or monitors, mouse, keyboard set-ups).
  + Development stack for frontend, backend, and database layers.
  + Up-to-date IDEs for development such as:
    - Eclipse
    - IntelliJ
    - Visual Studio
* Infrastructure (Aids with performance and delivery to client devices)
  + Fast, reliable, high-speed internet connection with the following minimal specifications:
    - Hardwired via ethernet cable.
    - Reliable Wi-Fi source.
    - 4G/5G network connection.