# 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 a person's life cycle

Description automatically generated

### UML Activity DiagramsA diagram of a computer program Description automatically generated

A diagram of a pin

Description automatically generated

### UML Sequence Diagram

*A diagram of a user flow

Description automatically generated*

### UML Class Diagram

*A diagram of a computer

Description automatically generated*

## Technical Requirements

Hardware Requirements for Host:  
• At least one physical server

o Prefer two for bilocation and backups

* Cabling for connecting the server and associated equipment.
* Display, input keyboard, and mouse for user interaction.
* Power sources
* Internet provider

Hardware Requirements for Client:

• Desktop or laptop computer

o for desktop setups, you'll need a keyboard, mouse, and screen.

•  Wireless card or ethernet cable for networking

* Power sources
* Internet provider

Software Requirements for Host:

* Windows Server operating system
* DriverPass Software
* Docker software for controlling VM traffic.
* Security software for protecting sensitive information from hacking.

Software Requirements for Client:

* Web browser application (Firefox, Chrome, etc.)
* Operating system (Mac, Linux, Windows, etc.)
* Security software for protecting sensitive information.

Tools Required for Development:

* Computing devices equipped with programming software such as Visual Studio, Eclipse, Emacs, and more.
* Internet connection for server upload
* Network admin tools for monitoring for suspicious traffic

Infrastructure Required:

* + Server location or cloud provider
  + Adequate power supplies to the building
  + Adequate internet service to the building

o Particularly adequate upload speeds

* Parking available for workers
* Cars for students/instructors
* Insurance as required by law in state of operations.
* Credit card processing company contract