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# 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

*[In Module Six, you were asked to complete a use case diagram based on your system design. If you would like to make any adjustments to your diagram, please do so. Please insert your use case diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]*

A diagram of a software system

Description automatically generated

### UML Activity Diagrams

*[You were asked to choose* ***two*** *use cases and create* ***two*** *activity diagrams, one for each use case. Please insert* ***both*** *of your activity diagrams here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]*

*A diagram of a login account

Description automatically generated*

*A diagram of a user flow

Description automatically generated*

### UML Sequence Diagram

*[You were asked to create a sequence diagram based on* ***one*** *of the use cases you chose. Please insert your sequence diagram here. Check to make sure that you included appropriate components and symbols and that your design meets the client’s needs.]*

A diagram of a login account

Description automatically generated

### 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 program

Description automatically generated with medium confidence*

## 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.]*

#### **Hardware Requirements**

**For Host:**

* At least one physical server
* Networking cables for connecting the server and equipment
* Monitor, keyboard, and mouse for server interaction
* Reliable power sources
* Internet service provider for network connectivity

**For Client:**

* Desktop or laptop computer
* Wi-Fi router or Ethernet cable for network connectivity
* Reliable power sources
* Internet service provider for network access

#### **Software Requirements**

**For Host:**

* Windows Server operating system
* DriverPass application software
* Docker for managing virtual machine traffic
* Security software to protect sensitive information from hacking

**For Client:**

* Web browser (e.g., Firefox, Chrome)
* Operating system (e.g., macOS, Linux, Windows)
* Security software to protect sensitive information

#### **Development Tools**

* Computers equipped with programming software (e.g., Visual Studio, Eclipse)
* Internet connection for server uploads and updates
* Network administration tools for monitoring and managing suspicious traffic

#### **Infrastructure Requirements**

* A secure server location or a cloud service provider for hosting the application and data.