# 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*[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.*

### 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 company

Description automatically generated

A diagram of a company

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 screenshot of a computer

Description automatically generated

### UML Class Diagram

A diagram of a computer program

Description automatically generated with medium confidence*[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.]*

## 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.]*

**Host Hardware Specifications:**

* A minimum of one standalone server unit
* Data transfer cables suitable for server and peripherals
* Visual display unit, input keyboard, and cursor-manipulating device for user interface
* Electrical power supply connections
* Network service provider access.

**Client Hardware Specifications:**

* Personal computing system, either stationary or portable
* Wireless network hub or hardwired data connection cables for internet access
* Electrical power supply connections
* Network service provider access.

**Software Specifications for the Host Environment:**

* Operating system: Microsoft Windows Server
* Driver management application: DriverPass
* Virtualization traffic management tool: Docker
* Cybersecurity application for data protection against unauthorized access

**Client Software Specifications:**

* Internet browsing application (e.g., Firefox, Chrome)
* System software (options include macOS, Linux, Windows)
* Protective software for securing confidential data.