# 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 work flow

Description automatically generated

### UML Activity Diagrams

A diagram of a login code

Description automatically generated

A diagram of a student login

Description automatically generated

Note: The redirect displays a read-only version of the instructor feedback/notes for the student to view, restricting editing access of the feedback to instructor only.

### UML Sequence Diagram

*A diagram of a user account

Description automatically generated*

### UML Class Diagram

*A diagram of a computer

Description automatically generated*

## 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 the server and equipment*
* *Monitor, keyboard, and mouse for interaction*
* *Power sources*
* *Internet provider*

*Hardware Requirements for Client:*

* *Desktop or laptop computer*
  + *If desktop, then a mouse and keyboard and screen*
* *Wireless card or ethernet cable for networking*
* *Power sources*
* *Internet provider*

*Software Requirements for Host:*

* *Windows Server operating system*
* *DriverPass Software*
* *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:*

* *Computers with programming software (Visual Studio, Eclipse, emacs, etc.)*
* *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*
  + *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*