# CS 255 System Design Document - Ryan Blegen

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 diagram

Description automatically generated*

### UML Activity Diagrams

*A diagram of a software system

Description automatically generated*

*A diagram of a product

Description automatically generated*

### UML Sequence Diagram

*A diagram with red and green lines

Description automatically generated*

### UML Class Diagram

*A diagram of a software company

Description automatically generated with medium confidence*

## Technical Requirements

Since this system is a web-based platform it is better to use a web host such as Amazon Web Services to host the platform instead of using a physical server on premises. This also keeps the hardware requirements low since it is accessible through a web browser or the AWS software. Since we can host the site and database online the only hardware/software requirements would be what is needed to access the internet such as the items listed below.

**Hardware Requirements**:

* Computer monitors
* Desktop w/peripheries
* Network Router
* Network Switch
* Network Printer

**Software Requirements:**

* Server host (AWS)
* Internet Browser
* Windows 11
* Payment processor service