# Mathew Denison

# 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

*Diagram, schematic

Description automatically generated*

### UML Activity Diagrams

*Diagram, schematic

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*Diagram

Description automatically generated*

### UML Sequence Diagram

*Diagram

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### UML Class Diagram

Diagram

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## 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.]*

The technical requirements of this system are as follows:

* System must be hosted on a server or cloud
* Cloud handles validation of account information
* Need payment system that links in
* LMS to host exam information that links directly to the account page
* Cloud backend for admin to access and make maintenance
  + Admin must have access to account data, LMS integration, billing information, package management system, and driver data/postings
* Package management portal to update driving packages as they are updated
* Azure/cloud server controls
* Front end system to handle account data
* System to send out emails to customers
* Email management portal that updates emails sent after payment process, account creation, and exam result/course completion
* 2FA system to provide higher levels of security for sign in