# 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 company

Description automatically generated

### UML Activity Diagrams

*A diagram of a username and password

Description automatically generated*

### UML Sequence Diagram

*A diagram of a user login

Description automatically generated*

### UML Class Diagram

*A diagram of a company

Description automatically generated*

## Technical Requirements

DriverPass system's technical requirements include cloud-based server infrastructure for scalability and accessibility, ensuring the system can handle peak loads and is accessible from anywhere. It requires a relational database management system for storing user, lesson, reservation, and vehicle data securely. The development stack might include HTML, CSS, and JavaScript for the web frontend, with a backend framework like Node.JS. Additionally, secure payment processing integration, authentication platform, SSL certificates for secure connections, and compliance with data protection regulations would be necessary.