# 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 driver pass

AI-generated content may be incorrect.

### UML Activity Diagrams

*A diagram of a company

AI-generated content may be incorrect.*A diagram of a company

AI-generated content may be incorrect.

### UML Sequence Diagram

A diagram of a payment process

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### UML Class Diagram

A diagram of a company

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## Technical Requirements

Overall, our system will be designed to function the same way via web browser or mobile application. This requires us to have a website, mobile application, and a backend server to run everything. This will allow us to have the same user experience at home, or on the go. We will use a SQL database on the server to store the sensitive information, and use SHA-256 encryption in order to secure our payment processing. The software will have three primary user types: Admin, Driver Instructor, and Student. That means they will each be able to access different portions of the system respectively. This ensures that non-admin personnel cannot access any of the critical infrastructure of the software/ database.