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# 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

### UML Activity A diagram of a software company Description automatically generated

### DiagramsA diagram of a software system Description automatically generated

### A diagram of a vehicle planning Description automatically generated

END

START

### UML Sequence Diagram

A diagram of a system

Description automatically generated

### UML Class Diagram

A diagram of a computer generated data

Description automatically generated with medium confidence

## Technical Requirements

The client for DriverPass was adamant about the necessity for the website to be easily accessible from anywhere at any time from all platforms capable of internet connection. The client also expressed the desire for fully cloud-based functionality for ease of access and storage. Beyond this he wants downloadable functionality included so that once the data is successfully downloaded to a system it can be accessed without the need for internet connection. The system will need to work quickly and efficiently across all platforms and mediums, with a consistent functionality and interface so that customers can get the same experience no matter what hardware or platform they choose to use. Since much personal data will be stored in the system like customer emails, credit card, address etc., the cloud-based memory management system used must not only be able to store and access all of this information, but encrypt and protect it so the users’ personal information is secure. The memory management system will also be housing all of the courses, the vehicles, the schedules, the tests, user progress etc., so the system must be powerful enough to successfully house all of this information and flexible enough to allow for the constant shifts and changes that will be happening daily. The storage management system on the other hand must allow for all of the information like the interface and website programming and design to be able to properly store and protect this vital information. The website server will need to allow for the likely influx of customers, the online instructors, the site administrators, the secretaries etc. to be able to all use the website without risks of the site slowing or crashing due to the traffic.