Project Two

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CS – 255 System Analysis and Design

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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

Diagrama

Descrição gerada automaticamente

### UML Activity Diagrams

Activity Diagram 1: Scheduling an on-the-road training session.

Diagrama

Descrição gerada automaticamente

Activity Diagram 2: Taking a practice test.

Diagrama

Descrição gerada automaticamente

### UML Sequence Diagram

Sequence Diagram: Scheduling an on-the-road training session.

Tabela

Descrição gerada automaticamente

### UML Class Diagram

Diagrama

Descrição gerada automaticamente

## Technical Requirements

The technical requirements of the DriverPass system encompass hardware, software, tools and technologies, and infrastructure. The system should support popular operating systems and include a responsive web-based and mobile application for iOS and Android devices. Reliable servers are needed to host the web application, manage the database, and store training materials and user data. In contrast, users require up-to-date devices such as smartphones, tablets, or computers.

In terms of infrastructure, a reliable, high-speed internet connection is essential for smooth operation and optimal user experience. The infrastructure should be designed for scalability to accommodate the growth of the user base and system requirements, ensuring consistent performance and reliability. Security measures, including SSL encryption, firewalls, and secure access controls, should be implemented to protect user data and maintain system integrity. By addressing these technical requirements, the DriverPass system can provide an efficient, user-friendly, and secure platform for users to access online classes, practice tests, and on-the-road training sessions.