# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

### UML Activity DiagramsA screenshot of a computer screen AI-generated content may be incorrect.

### UML Sequence DiagramA diagram of a bank AI-generated content may be incorrect.

### UML Class Diagram

A screenshot of a graph

AI-generated content may be incorrect.

## Technical Requirements

To make the DriverPass system work the way the client needs, here’s what we’d need on the tech side:

* **Hardware**  
  The system should be hosted on a cloud platform like AWS or Google Cloud so it’s easy to access anywhere. Users will be using computers, tablets, or phones, so the system needs to work on all those devices.
* **Software**  
  It should work on all the common web browsers (Chrome, Safari, Firefox). The backend can use something like Node.js or Python Flask, and the frontend can be built with regular HTML/CSS/JavaScript or a framework like React. We’ll also need a database (like MySQL or PostgreSQL) to store stuff like student info, appointments, and test scores.
* **Tools**  
  Lucidchart will help us keep our diagrams updated, and GitHub can be used to track code changes and share work as a team. We’ll also need a way to send emails (like password resets or updates), which can be done with a service like SendGrid.
* **Infrastructure**  
  The system needs to make sure people only see what they’re allowed to (students, secretaries, admins). It should use encryption (SSL/TLS) to keep everything secure. Passwords should be stored safely using hashing, and the system should back up regularly just in case. Also, the DMV should be able to send updates so the training info stays current.