# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

*A diagram of a system

AI-generated content may be incorrect.*

### UML Activity Diagrams

*A diagram of a flowchart

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

AI-generated content may be incorrect.

### UML Sequence Diagram

*A diagram of a system

AI-generated content may be incorrect.*

### UML Class Diagram

*A diagram of a diagram

AI-generated content may be incorrect.*

## Technical Requirements

To meet DriverPass’s needs, the system will require the following:

**Hardware**

* A web server to run the DriverPass application.
* A database server to store lesson schedules, student details, progress, and payments.
* Internet-connected devices such as computers, tablets, or smartphones for students and staff.

**Software**

* A server operating system like Linux or Windows Server.
* A backend framework such as Java or .NET.
* A database system like MySQL or PostgreSQL.
* Frontend technologies (HTML5, CSS, JavaScript) for the user interface.
* Secure connections to the DMV system and payment service.

**Tools**

* Lucidchart for diagram creation.
* Eclipse or Visual Studio Code for development.
* Git for version control.
* Security tools for encryption and system checks.

**Infrastructure**

* Secure hosting with SSL certificates.
* Daily cloud backups to prevent data loss.
* Role-based access so users only see what they need.
* Regular updates to keep the system safe and reliable.