# CS 255 System Design Document Template

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## UML Diagrams

### UML Use Case Diagram

A diagram of a company

AI-generated content may be incorrect.

### UML Activity Diagrams

Driverpass Login

A diagram of a user account

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A diagram of a user sign

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Driverpass purchase

A diagram of a payment method

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### UML Sequence Diagram

A diagram of a product

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## Technical Requirements

To support the DriverPass system effectively, a well-rounded technical infrastructure is essential—blending strong hardware, reliable software, and strategic deployment. The goal is to ensure data handling for all core components, including students, instructors, lesson plans, and administrative staff. The backend will be powered by Python, paired with a JavaScript front end for an interactive user experience. Development will be managed using Visual Studio Code, supporting efficient collaboration and updates. For data storage, MySQL offers the flexibility to manage complex relationships between entities. A dedicated server with high-speed internet, secure firewall protection, and sufficient storage will form the backbone of the system.