# CS 255 System Design Document

## UML Diagrams

### UML Use Case Diagram

*A diagram of a driver pass

AI-generated content may be incorrect.*

### UML Activity Diagrams

*A diagram of a software flowchart

AI-generated content may be incorrect.*

A diagram of a software company

AI-generated content may be incorrect.

### UML Sequence Diagram

A diagram of a process flow

AI-generated content may be incorrect.

### UML Class Diagram

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## Technical Requirements

The system hardware should have enough processing power, memory, and storage for reliable performance, with quick boot times, application loading, and response times. It should also support GPS functionality to verify student pickup locations for driving lessons.

The system software should be compatible with multiple operating systems and devices, and it must respond seamlessly to user inputs through hardware. Strong security protocols must be implemented in the software design to protect sensitive data from unauthorized access. The DriverPass system is used by different users with varying roles and access levels, so implementing robust access control mechanisms should be a top priority. Data should be stored securely in the cloud, and integrated development environments (IDEs), along with their debugging tools, should be leveraged to enhance the system’s security.