# CS 255 System Design Document

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## UML Diagrams

### UML Use Case Diagram



### UML Activity Diagrams

#1 Creating a DrivePass Account

A diagram of a software system

Description automatically generated

#2 Buying a DrivePass Packages

A diagram of a user flow

Description automatically generated

### UML Sequence Diagram

A diagram of a process

Description automatically generated

### UML Class Diagram

A diagram of a software company

Description automatically generated

## Technical Requirements

Hardware Requirements

Dedicated Server: A powerful server to host the system.

Reliable Internet Connection: High-speed internet for smooth operation.

Storage: Enough space for data and website content.

User Devices: Computers or mobile devices for users.

Firewall: Protection against unauthorized access.

Software Requirements

Operating System: Windows Server for stability.

Database: SQL Server to manage data.

Backup Software: To regularly back up data.

Web Server: Apache to host the website.

Security Software: To prevent malware and other threats.

System Features

Payment Validation: Secure processing of payments.

User Requests: Validating and managing user actions.

User Permissions: Different access levels for users.

Disable Packages: Ability to deactivate lesson packages.

Login and Password Reset: Secure login and easy password recovery.

Infrastructure Requirements

Accessibility: Ensure the website is accessible across America.

Server Security: Use a secure data center for hosting.

Performance: Place servers in a central location for better speed.