# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a driver pass

Description automatically generated

### UML Activity Diagrams

A diagram of a computer program

Description automatically generated

A diagram of a test

Description automatically generated

### UML Sequence Diagram

*A diagram of a work flow

Description automatically generated*

### A diagram of a software company Description automatically generated with medium confidenceUML Class Diagram

## Technical Requirements

* **Software:**
* Windows Server (recommended for its proven reliability).
* A web server, such as Apache, to host the site.
* Security software to prevent malware attacks.
* SQL Server for database management, with the latest stable version.
* Backup software for regular database and website backups.
* **Hardware:**
* A firewall to protect the server and website ports from unauthorized access.
* A dedicated server to host the website and database.
* A stable and reliable internet connection to ensure consistent performance.
* Sufficient storage capacity for website files and database data.
* Devices such as computers or mobile phones for users to access the site.
* **Geographical:**
* Ensure the website is accessible to users in the United States.
* Place the server in a geographically central location for optimal site performance and accessibility.
* Host the website and database servers in a secure data center.