# CS 255 System Design Document

## UML Diagrams

### A screenshot of a computerUML Use Case Diagram

### UML Activity Diagrams

A screenshot of a computer

AI-generated content may be incorrect.

### A screenshot of a computer AI-generated content may be incorrect.

### UML Sequence Diagram

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### UML Class Diagram

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## Technical Requirements

Based on the system design, the following technical requirements are necessary:

* **Hardware**: A dedicated server for hosting the database and website, a reliable internet connection, and adequate storage for data. A firewall must be implemented to secure website ports. Users will need a computer or mobile device to access the system.
* **Software**: The system should run on Windows Server (latest stable release) for stability. SQL Server is recommended for database management. Backup software is required to ensure data protection, and a web server like Apache will handle website requests. Security software must be integrated to prevent malware threats.
* **Infrastructure**: The website and database server must be secured in a data center. To optimize performance and accessibility, the server should be placed in a central location. The system should be accessible throughout the United States.