# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

Graphical user interface, application

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The hardware required for the system includes a cloud-based server and client devices with a modern browser. The client specifically requested a cloud-based server and a system that can be run on many devices. As for the software, we will likely need a Windows operating system for smoother cloud services and security software to protect information for both the client and end user. The client also requires that the system be a web-based application.

The tools needed for system development include a desktop computer or laptop that has software development capabilities and secure internet access for server uploads. Once these tools are acquired, the infrastructure that will be required will include a cloud provider for the system, adequate power, and internet connection to keep the system running, and a contract with a credit card processor. The client will also need an actual building, parking spaces, and vehicles to facilitate the driving package portion of the system.