# CS 255 System Design Document Template

Carl LaLonde

## UML Diagrams

### UML Use Case Diagram

*A diagram of a diagram

Description automatically generated*

### UML Activity Diagrams

*A diagram of a software process

Description automatically generated* A diagram of a login

Description automatically generated

### UML Sequence Diagram

*A diagram of a driver pass

Description automatically generated*

### UML Class Diagram

A diagram of a company

Description automatically generated

## Technical Requirements

Hardware Requirements:

* Database storage
* Server to host web application and backup
* Desktop/Laptop computers for managing DriverPass system
* Desktop/Laptop or mobile devices for accessing DriverPass system

Software Requirements:

* Linux Server OS for web server
* MySQL for database management
* Client Operating Systems (Windows, Linux, Mac, iOS and Android)
* Transport Layer Security (TLS) for secure data transfer

Tools:

* Google Analytics to monitor the DriverPass system
* Visual Studio or other IDE for developing application code
* Lucidchart for developing UML Diagrams

Infrastructure:

* Cloud for hosting web applications
* Backup and Recover
* Firewalls to protect from unauthorized access