# CS 255 System Design Document

Hunter Ashner CS255 – Project 2 Part 1

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The above diagrams were created with some assumptions on users’ access to web or mobile internet browsers. I have also created these diagrams with some relevant knowledge of server architecture that I am most familiar with. There are other methods to create this same system in ways that may be more performative and functionally consistent.

The backend system and server architecture with attached database will run on a ubuntu server, with MySQL as the preferred database. I chose these platforms as they do not require any special tools or licenses and are what I am personally most familiar with. The system should be accessible from browser, mobile and any other relevant client platform. Offering maximal platform compatibility is a great way to offer students and instructors easier and more frequent access to the DriverPass software to check their progress and leave comments for driving students. The system should be fast and responsive. A fast and responsive system promotes usage from users. These benefits can even drive business to DriverPass through a fast and well-designed interface. The server architecture of this system is not extremely robust and regardless of the skill level of the IT staff at DriverPass, they should be able to make custom queries and changes to this system without our continued support of the system after its implementation.