# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a company

Description automatically generated

### UML Activity Diagrams

A diagram of a flowchart

Description automatically generated

­­­­­­A diagram of a flowchart

Description automatically generated­­

### UML Sequence Diagram

*A diagram of a user flow

Description automatically generated*

### *A diagram of a computer program Description automatically generated with medium confidence*UML Class Diagram

## Technical Requirements

There are several technical requirements for this system to operate properly. We can start by talking about the hardware requirements. Since the servers will be cloud-based, there will not need to be any physical servers onsite. Instead, we will have to coordinate our system with a third party that offers cloud-based data storage. Computers will be needed for each employee to be able to access the driver pass system while at work. These will all need access to the internet, so a router and modem will be required as well. This should be sufficient for the hardware needed.

This system will also have several software requirements. Every computer will need to have an operating system installed on it that can run the DriverPass system. We will need to set up a database for the system in order to store important information and data. The company that we work with will likely contain the necessary software to host our website. Following that, we will need an IDE to develop the system in.

The primary tools and infrastructure needed to host this system will be provided by the company that we work with to store information on the cloud. We will need security systems in place to ensure that the data we store can’t be accessed by unauthorized users. The company hosting our servers will likely have options for this as well. Finally, we will need the availability for payments received on our system website to be transferred to a company bank account. This will need to be set up as we develop the program.