# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Scheduling a lesson, and paying for it

Diagram

Description automatically generated

Setting Schedules and how it relates to scheduling a lesson

Chart, diagram, bubble chart

Description automatically generated

### UML Activity Diagrams

Activity of going through your profile

*Chart, diagram, box and whisker chart

Description automatically generated*

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

## Diagram Description automatically generated

## Technical Requirements

Driverpass is a web-based application, so the first thing we’ll want is a good cloud service. That will do several things, starting with ensuring a reliable client/server connection for the users. This will also provide us with cloud storage, for storing data such as customer information, schedules, payment logs, etc. Most good cloud services also come with several forms of protection and encryption for transferring and storing your data safely, one of the many lines of defense we’ll employ to ensure privacy.

In this case, a Linux based server would provide all of this, while still having accessibility to all the major platforms such as windows, mac, android, and iOS through the web, while being incredibly performance and cost efficient.

The system will also give every user a protected username and password. This will give a user access to their profile, which, depending on what role they serve, will display all the necessary tools they need. Students will have the tools to schedule lessons, choose which package tier they’d like to purchase. If you’re an instructor, you may see things such as ‘Set schedule’ or ‘Check todays lessons.’ Privacy will be a large priority for us on Driverpass since profile will contain sensitive information such as names, addresses and payment information.

Students will be able to pay for lessons from their profile, and instructors will be able to receive payments from their profile. The system will record all transactions for the admin, who will have a back door to view all transactions and print a report.

The system will be built with the future in mind, designed to be updated and modified as improvements are notices and trends come and go.