# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* DriverPass is a proposal program that is a solution for tracking of training students’ progress for their local DMV driver’s test.
* Driver Pass will also provide online training with practice tests, as well as on-the-road training.
* Customers can create appointments for driver lessons. This will be able to schedule track DriverPass instructor driver, time, and car.

### System Background

* The system background should allow the ability to access the user information online or offline that is web based. The server side to handle user information is requested to be cloud base (3rd Party), to limit ownership of backup and security.
* Different Roles are needed to reset user accounts or to block user access if employee (DriverPass) is terminated.
* Tracking system to see who made a reservation, canceled it, or modified last. Ability to print an activity report to display tracking information.

### Objectives and Goals

* The User Interface should have personal information of the user (student), test progress, driver notes, and lesson appointment information.
* There are currently 3 packages for the student to choose from, and DriverPass administrator can choose to disable a package when needed.
  + • Package One: Six hours in a car with a trainer
  + • Package Two: Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies
  + • Package Three: Twelve hours in a car with a trainer, an in-person lesson where we explain the DMV rules and policies—plus access to our online class with all the content and material. The online class also includes practice tests.
* System design will need use case diagrams and activity diagrams to build a layout for the UI.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The environment for DriverPass should be a web-based environment. This will allow accessibility for user data and account information
* The system should run fast to allow the user to schedule appointments in a timely manner. This will limit issues when booking appointments and user frustration.
* Updates shall be conducted in compliance with the DMV and new features that DriverPass offer in future improvements.

#### Platform Constraints

* Since the user interface is web-based, it should be tested on different operating systems to check compatibility. This should include a mobile version as well.
* DriverPass will need to utilize a database to store user information and reservation data. The server can be cloud-based to handle the database, which will save in cost.

#### Accuracy and Precision

* Login accounts will have different accessibility and permissions.
* User identification shall be case-sensitive
* If trouble accessing account, the user should contact the support group

#### Adaptability

* The user should be able to make any changes to their account. Admin users should have full access to add or remove accounts and full access to make any changes.
* The web-based browser should keep up to date along with browser choices. This should include any plug-in requirements as well

#### Security

* User login should include username/e-mail and password.
* The connection between the client and the server shall be encrypted connections.
* If there is a brute force attempt, the account should be locked out after 3 attempts
* For password reset from failed attempts or the user forgets the password, they shall email the support team for proper reset.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall allow users to create, modify, or cancel driving lessons.
* The system shall let users to modify personal information, such as payment details.
* The system shall offer various training packages with different features.
* The system shall track user activities and generate activity reports.
* The system shall integrate with the DMV to receive updates on rules, policies, and practice questions.

### User Interface

* The interface should be distinctive between user interface and admin interface.
* Each user should have access to the specific functions they require, such as reservation management or administrative tasks.
* The interface should be accessible via web browsers and potentially mobile devices.

### Assumptions

* Users have accessibility to internet with a PC or Mobile device.
* The DMV will provide updates and compliance with DriverPass
* The system design will be flexible enough to accommodate potential future features.

### Limitations

* The system design is subject to resource limitations, including time and budget constraints.
* The availability of technical resources and expertise may impact the system's development.
* The system's functionality and scalability may be limited by available technology and infrastructure.

### Gantt Chart

*A chart with multiple colored squares

Description automatically generated with medium confidence*