# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* Liam, owner, and Ian, IT officer, of the company DriverPass wish to provide clients online driving classes and practice tests along with on-road-training to help them pass DMV tests.
* They want the system to be flexible, allowing for the addition and removal of certain “packages” clients can purchase, and run on the cloud to eliminate having to deal with backup and security.

### System Background

* DriverPass believes people are underprepared for DMV driving tests, and they wish to offer a service to help people train for those tests beforehand.
* Users will be able to take online classes and practice tests to prepare for DMV tests as well as schedule on-the-road driving lessons.
* DriverPass will offer multiple “packages” with varying amounts of driving lesson lengths and the ability to access online classes and practice tests.

### Objectives and Goals

* Users should be able to create a login, fill out a form for their personal information, and reset their password if needed.
* Users should be able to schedule driving lessons in two-hour increments. The system should be able to match the user to a trainer and a vehicle in that time slot.
* One page should show previous tests taken and ones in progress (Test name, score, time taken, status – taken, in progress, failed, or passed).
* A section for driver feedback including lesson time, start hour, end hour, and comments should be included.
* Interface with the DMV and notify when updates are available.
* Provide a contact form and a way to contact the student.
* Be able to access and download reports including an activity report to hold employees accountable.
* Users should be able to make/cancel/modify appointments online.
* Different employees should have different rights and roles (Owner, IT Officer, Secretary, etc.).

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system should be run in a web-based environment, speed is not a priority, and the system should be updated whenever the DMV makes changes to its policies, practice tests, etc.

#### Platform Constraints

* The system should run on any essentially any platform as a web-based application. There should be a database to store customer information and possibly scheduling details.

#### Accuracy and Precision

* Each user should have a unique case-sensitive username and password combination. The system should inform administration as soon as an outage is detected.

#### Adaptability

* As long as the code uses a RESTful API, the system will likely not have to adapt to platform updates as frequently. Users should be able to be modified without changing the code.
* As the customer would prefer a cloud-based application, there will be minimal downtime when performing maintenance.

#### Security

* As previously stated, each user should have a unique username and case-sensitive password of at least 8 characters containing one uppercase, one lowercase, and one number. The data exchange between client and server should be encrypted using asymmetric encryption to protect user’s personal information. Users should have the ability to reset their password if forgotten. If an account has been compromised, the account should be deleted to protect against fraudulent actions.

### Functional Requirements

### User Interface

*What are the needs of the interface? Who are the different users for this interface? What will each user need to be able to do through the interface? How will the user interact with the interface (mobile, browser, etc.)?*

* The system shall have an option for the user to schedule an appointment for on-the-road driver training.
* The system shall have a section for practice tests which displays test status and feedback (name, score, time taken).
* The system shall show the user feedback from driving instructors including lesson time and comments.
* The system shall have the ability for the user to contact DriverPass and vice-versa.
* The system shall have an input form that allows the user to input their personal information.
* The system shall include a picture of both the student and a picture of their instructor.
* The system shall have different options for a generic user versus the owner/IT officer of DriverPass who will have more privileges.

### Assumptions

* The system shall assume that the user has up-to-date equipment capable of accessing a webpage.
* The system shall be able to access the DMV’s website in order to provide notifications and updates without issue.

### Limitations

* Additional “packages” offered by DriverPass will not be able to be removed or added without help from a developer.
* Financial transactions will have to be handled by a third party service for security purposes.
* DriverPass has requested a system that will essentially run autonomously which is simply not possible.

### Gantt Chart

*Chart

Description automatically generated*