# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

* Our client for this project is DriverPass. We will be communicating with Liam (Owner) and Ian (IT officer).
* The client is looking for a system to assist the user to practice for their driver’s exam and to help them learn to drive with lessons.
* This in turn will make them a safer driver.

### System Background

* The people at DriverPass have noticed a need for better training for students taking the driver’s test at the DMV.
* Too many students end up failing their driver’s test.
* They want to be able to help students practice for their exams with online practice exams.
* Get time behind the wheel to become more confident and safer drivers with on-the-road driving.
* They need an online web system that is easy for the user to access and update information.
* The user also needs access to the different packages available and their progress in the current package.

### Objectives and Goals

* Access online from anywhere.
* Set level of access for various employees.
* Track changes to the system and user profiles.
* Make reservations for driving lessons.
* Track which driver is with which student.
* Able to close a package when all the spots are filled.
* Ability to schedule appointments over the phone or online.
* Stay up to date with the DMV policies.
* Systems is web based and runs off the cloud.
* Interface should show online test progress, user information, driver notes, special needs, and photos of driver and student.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The environment will be web based using the cloud.
* There needs to be sufficient power to prevent lag time when running the system and to make sure all screens load quickly.
* When reservations are made, they need to be updated within seconds so that they are not double booked.
* The system will be updated whenever features are added or DMV policies change.
* The system should update for exams when completed and graded.

#### Platform Constraints

* The system will be running on Windows, Mac, and Linux for ease of access for more customers.
* Due to the system using the cloud the databases will be handled by them for the back end of the system.

#### Accuracy and Precision

* There will be unique login and password for each user.
* The inputs will be case sensitive.
* There will be a multifactor authentication.
* The admin will be informed immediately of any problems.

#### Adaptability

* Admin will need full access.
* Employees will have varying access based on their job title.
* User will need to be able to update their profiles.
* The platform updates will begin as features are added.
* Updates will be ran at night when it is not in peak hours.

#### Security

* There will be a multifactor authentication.
* Using the cloud will secure the data exchange between client and server.
* Account will be locked after three failed attempts with a screen informing them to get ahold of the admin to reset their account.
* To reset password the user will click a link to send a reset email to the email provided for that username.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall book reservations.
* The system shall show practice tests and exams.
* The system shall show who the driving teacher for the customer.
* The system shall show the different packages offered.
* The system shall show completed test and lessons.
* The system shall unique access for each user.

### User Interface

* The interface will provide the company logo, online test progress, user information, Driver notes, driver photo, student photo, and any special needs.
* Each user will be able to go in and make changes to their personnel information, make/cancel reservations, and choice which driving package to purchase.
* The user will be able to interact with the interface through a desktop, laptop, tablet, or mobile device.

### Assumptions

* Assume that users have access to the internet.
* Assume that users can navigate a simple website.
* Assume that users have an adequate device to interact with the interface.
* Assume that all of this will fit into the budget.
* Assume that we will have the budget to create systems for Windows, Mac, Linux, and mobile devices.
* Assume we have all the technology needed to build the system.

### Limitations

* Due to not knowing the budget at this time, it could limit the work that can be done on the system and what features are included.
* Time could limit how many features or how many platforms we are able to use.
* The company may need to bring more people in to work on the application to remain within the time frame.

### Gantt Chart

Timeline

Description automatically generated