# Driver Pass Business Requirements Document

## System Components and Design

### Purpose

* This project is for one of our clients, DriverPass. The purpose is to provide people with better driving training to make it easier for them to pass their driving tests at the DMV.

### System Background

* The client has asked us to build a system that allows student users to register, purchase driving packages, view reservation information, and partake in online classes.
* The system will allow students to reach out to the company with concerns and vice versa.
* The system will be run on the cloud to allow information to be accessible remotely.
* This system will generate reports on reservation modification history.
* The system will match students with a driver if they purchase the driving package and make reservation.
* The system will allow student users to take online practice tests.

### Objectives and Goals

* The system will provide users with the following functions:
  + Register/sign up for a user profile
  + Make, modify, and cancel reservations
  + Display report of reservation edit history
  + View user information (first name, last name, address, etc)
  + View driver picture
  + Contact either the user or company using contact form

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

* The system shall be a web-based application that runs on the cloud.
* The system needs to be scalable.
* The system shall be updated once a month.
* The system shall archive records older than 3 years for both active and inactive users.

#### Platform Constraints

* The system shall have a database that stores student and driver/instructor reservation history.
* The system shall have a database that stores student payment history.

#### Accuracy and Precision

* There should be at least 4 different users in the system: student, driver/instructor, IT admin, and admin.
* The admin should be notified via email and their user profile when concerns are submitted in the portal.

#### Adaptability

* The IT admin will need permissions to remove users from the platform.
* The IT admin will need permissions to allow users to change their passwords.

#### Security

* The cloud-based server should offer and manage security concerns for DriverPass.
* The system should provide users with the option of resetting their passwords if they are unable to login.
* The system should utilize a third-party security app to manage the security of user profiles and passwords.
* Users must be logged into the platform to view their reservation and payment history as well as their profile.

### Functional Requirements

* The system shall allow students and drivers/instructors to create an online user account.
* The system shall generate reports of reservation and payment history.
* The system shall allow students and drivers/instructors to make changes to their user profile.
* The system shall allow students and drivers/instructors to make changes to their current reservations.
* The system shall allow students and drivers/instructors to view their reservation and payment history.
* The system shall allow students and drivers/instructors to view their classes and test scores.
* The system shall allow students to take online practice tests.
* The system shall provide a portal where students can submit concerns and get support.
* The system shall match students with a driver/instructor based on their location and availability.
* The system shall not allow students to overbook a specific driver/instructor.
* The system shall allow special user to disable packages.
* The system shall process payments for the driving packages
* The system shall allow driver/instructor to view their assigned student’s profile.
* The system shall utilize a DMV API to receive local DMV updates.
* The system shall allow special user to remove drivers/instructors from the platform.

### User Interface

* The interface of the student’s home page
  + There will be a module to display student’s progress on any assessments they may be currently taking. There should also be a section to display the scores of previous assessments taken.
  + There will be a module with driver notes. It will include comments drivers/instructors left on specific lessons completed with student.
  + as the times for the lessons. So, it should show me something like this table
* All users should be able to interact with the interface via browser and mobile.
* There should be a section that displays student photo and their assigned driver’s photo.
* There should be a module that lists student information like their name, address, phone number, etc.
* There should be a module that lists any special needs a student may have.

### Assumptions

* Students will have access to the technology required to access the system.
* The system will run 24/7 and be accessible from anywhere with an internet connection.

### Limitations

* The system will be unavailable when updates are ongoing.
* The system will not be accessible when the servers are offline.
* When the DMV site is undergoing maintenance, Driver Pass’ system will not receive updates or notification of changes.

### Gantt Chart

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