# Business Requirements for DriverPass

## System Components and Design

### Purpose

* The client is DriverPass an interactive driver test provider. The purpose is to give the customer access to an efficient drive lesson booking system as well as access to online driver testing and course materials.

### System Background

* The client has asked for a system that will allow customers to schedule a reservation for a driving lesson online, they can also call or do this by a in store visit. The customers can also cancel or modify the reservation.
* The client wants the system to allow customers to be able to study the DMV rules of the road with an online class and to be able to take practice tests on the web site.
* The system will be connected to the DMV through the internet to receive updated testing information.
* The system itself will run off a cloud platform and be available over the any internet connection.

### Objectives and Goals

* The system will provide the user with the following functions:
* Create, modify, cancel driving lesson reservations
* Participate in an online driver training class
* Take a DMV standard practice test
* Review notes from past driving lessons
* The system will provide the client with the following functions:
  + Notifications of all reservation updates and who initiated them
  + Access levels with different rights and roles
  + Ability to disable a sells package

## Requirements

### Nonfunctional Requirements

* The system can be accessed from both computer and mobile devices with internet connections.

#### Performance Requirements

* The system runs on the cloud and updates happen in real time.
* The system takes requests and process them in less than 5 seconds compounded by a users internet connection speed.

Rationale: The system needs to be accessed from a variety of locations and is best served to run on virtual cloud based servers to ensure access never goes down except in the event of non-payment or other extreme catastrophe. This system provides maximum stability and capacity.

#### Platform Constraints

* The system will run on the Azure cloud.
* There will be a database of user information connected to the system also running on the cloud.
* The system will connect to the DMV for testing updates.

Rationale: The cloud platform is stable and provides near fault free access to the system, having the database run on the same platform will streamline data requests.

#### Accuracy and Precision

* The system will designate client log-ins separate from employee log-ins, and there are three different types of employee log-ins: the standard employee, IT Tech, and the Boss.
* The Boss gets a record of all transactions in the system in the form of a report.

Rationale: Different users have different rights on the system so must be logged-in differently. The boss must sort out who is responsible for what has gone on so they get notified of ever transaction.

#### Adaptability

* The Boss is able to enable and disable sells packages.
* The DMV testing is updated as changes are made by the DMV.

Rationale: Only the boss has the authority to change what driving training packages are being offered. As changes are made at the DMV DriverPass practice tests also must be updated so the changes are sent over as they are published.

#### Security

* A username and password is used to log-in to the system.
* The Boss has rights to reset passwords.
* The Boss has rights to block access of employees who have been let go.

Rationale: The system is a secure system, and a new client must create an account to log-in to begin using services, lost password requests are sent to the boss to reset and the boss must block employee access when needed.

### Functional Requirements

* The system shall validate user credentials when logging in.
* The system shall allow the user to make, modify, and cancel a driver lesson reservation.
* The system shall allow the user to take a online driver training class.
* The system shall allow the user to take a DMV practice test.
* The system shall allow notes to be made on driving lessons by the instructors for their students with the proper employee log-in.
* The system will allow passwords to be reset with the proper Boss log-in.
* The system will allow sells packages to be disable or enabled with the proper Bos log-in.

Rationale: Users can use the system once they have logged-in to manage their registrations, take a test, take the online course, and read their messages from previous driving lessons. Employees can do the functions of their jobs as well.

### User Interface

* The device will have a display screen (which could be a touch screen) a keyboard and a mouse are possible. (it depends if they are on mobile or not)
* There are many display screens but the main one for the user sums up all their driving lesson feedback, has their next lesson time, has their practice test information and their online driver test course all on one page for them.

Rationale: The user will get on their device and go to the web site, they may be on a phone with a touch screen or at a desktop computer or a laptop.

### Assumptions

* The user has a working charged working device.
* The user has a working internet connection.

Rationale: Without electricity in their device and internet the user will not be able to access the system.

### Limitations

* The Azure system goes down.
* We cannot afford the Azure services.

Rationale: If the Azure system goes down or we do not pay the bills for the system users will not be able to access the system.

### Gantt Chart

Chart, timeline

Description automatically generated