# CS 255 Business Requirements Document Template

## System Components and Design

### Purpose

The purpose of the project is to create a system for drivers training to better assist people for the driver’s test at DMV. DriverPass, would like to make their system user friendly for all their customers. DriverPass would like their customers to make appointments and reservations online. Also allow their customers to schedule online classes and practice tests as needed. The system should also allow certain employees access to critical information as needed. The system should track all reservations, cancellations, and updated modified items list to make sure all records are current.

### System Background

The owner of DriverPass Liam would like to build a start-up interface to train drivers as there is a need in the market. He would like for them to be able to do tests and provide them with behind the wheel training if they choose so. Liam and Ian would need full access to the information from any device online anywhere. Also, they would like for the customers to book sessions. And they want to record the progress of the customer under the drivers notes. The problem they would like to fix is the failing performance of driving tests at the DMV. The different components of the system are computer software and hardware, and how much memory it can hold.

### Objectives and Goals

When completed the system should allow customers to register for DriverPass. Allowing the customers to make, modify, or cancel appointments accordingly are just a few of the objectives DriverPass would like to accomplish. Another objective is to track the progress of every customer on file. And have an interface where they can choose between the different package options. The system should have the right security in place so there is no confusion as to who has access to what. Some goals for the team are: Keep all meetings with client to make sure all needs are being met. And make sure to stick to the deadline dates so nobody can get off track.

## Requirements

### Nonfunctional Requirements

#### Performance Requirements

The system will need to be web based. This will allow the application to provide multiple environments such as: Editing, Testing and Debugging, and Compiling. This will allow for websites to be developed over the cloud. The system should be fast enough to manage an increasing workload when there are multiple users. The system should also be fast enough to access websites without any issues. The system should be updated at least once a month. It should also update if the client adds new features.

#### Platform Constraints

The system should use the common platforms used in business’s today such as: Mac OS, Microsoft Windows, Unix, and Linux. The system will require a back-end database. It will also require multiple tools like graphic design and image editing tools. Web performance and browser compatibility.

#### Accuracy and Precision

To distinguish between different users a username and a password will be created by anybody accessing the website for the first time. The input will be case sensitive to make sure we have the right uppercase and lowercase letters entered. With a multi-factor authentication system in place, it should make it a lot harder for hackers to get into the system. The system will observe for bugs and warn the admins of any problems that should arrive. Allowing for the system to be fixed faster from admins.

#### Adaptability

The program will not change any features but depending on your level of security you will be able to add additional features as you please. For platform updates they should be running at specific times to not interfere with users on the system. They should also be running at least one time a month, but more are welcomed. Level 1 will have their basic permissions security. And depending on your security clearance for how much access is allowed. Admin will have full control of all permissions to ensure the system does not fail.

#### Security

All users will need to create a username or email with a password that meets the system requirements. For secure connections, the server will use HTTPS. Users will be required to login to their account successfully. If wrong username/password is entered incorrect three times the account will lock, and you will be instructed to contact our admin personal for access. If a user forgets their password, they will be instructed to contact an admin to reset the password for them after verifying the user’s information.

### Functional Requirements

### “The system shall validate user credentials when logging in.”

“The system shall define who will be allowed to create, modify, or delete data in the system.”

“The system shall be fast enough to manage multiple users at a time.”

“The system shall provide current practice tests from DMV.”

“The system shall alert admin if there is a bug in the system.”

### User Interface

The interface will have the ability to take quizzes and tests online as needed. Divergent users for the interface would be graphical user interface, form based, menu driven, command line, and natural language. Each user on the interface will be allowed to sign in on profile screen, log out, schedule, and test drive. The mobile version will have a light version, where you can sign up and view necessary materials. The mobile version will not allow users to schedule or take quizzes now.

### Assumptions

The Internet is accessible 24/7 for all users on system with access this will allow for taking quizzes, viewing necessary materials, schedule exams and much more.One assumption would be employee’s having access to the scheduling database to make changes if needed. Will technology design make a direct link to each state's DMV? Will DMV have all current and up to date information

### Limitations

Some limitations in the system design are:

Screen size when contrasting with internet browser and applications for telephone.

Storage database will likely fill up fast with a lot of information.

Phones do not have as much force contrasted with PCs must make better.

The budget will be limited because servers are expensive.

Hardware needs to be accessible by any normal user.

Electricity should be available to power the system for DriverPass and any devices associated with them.

### Gantt Chart

Chart, waterfall chart

Description automatically generated