# CS 255 Business Requirements Document

## System Components and Design

### Purpose

*What is the purpose of this project? Who is the client and what do they want their system to be able to do?*

* DriverPass is a company that is looking to make testing for driver’s licenses better with less failures. The company would give the individual the opportunity to take online classes and practice tests to get ready for the real thing.

### System Background

*What does DriverPass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

* The client wants the system to have customers make a Profile online with any information that the company would need to keep their name on file for the practice tests.

### Objectives and Goals

*What should this system be able to do when it is completed? What measurable tasks need to be included in the system design to achieve this?*

* The system will be there for customers to make appointments for driving tests and practice tests.
* Also to have the ability to work on and off the internet to have the information at everyone’s finger tips.

## Requirements

### Nonfunctional Requirements

*In this section, you will detail the different nonfunctional requirements for the DriverPass system. You will need to think about the different things that the system needs to function properly.*

#### Performance Requirements

*What environments (web-based, application, etc.) does this system need to run in? How fast should the system run? How often should the system be updated?*

* This system would be web-based where the customers can open it from any computer or mobile device.
* The program should be running smoothly and fast because it is for making appointments and getting packages for driving practice testing and materials that are needed for study.

#### Platform Constraints

*What platforms (Windows, Unix, etc.) should the system run on? Does the back end require any tools, such as a database, to support this application?*

* Windows would be the best for the program with the updating features and security that is in place but could be also made for mobile devices platform for it to be on the go.
* Having a database for the materials that the users would be get.

#### Accuracy and Precision

*How will you distinguish between different users?* *Is the input case-sensitive? When should the system inform the admin of a problem?*

* The system should not be case sensitive for some things that would be in the program.

#### Adaptability

*Can you make changes to the user (add/remove/modify) without changing code? How will the system adapt to platform updates? What type of access does the IT admin need?*

* Having a way that the user a way to change information after it is put by having a edit feature in the code so the code doesn’t have to be changed.
* The system would be something that would be something that would change and adapt by have maintenance so it would change with the platform.

#### Security

*What is required for the user to log in? How can you secure the connection or the data exchange between the client and the server? What should happen to the account if there is a “brute force” hacking attempt? What happens if the user forgets their password?*

* For security, having a two step verification system for customer and employees on the system would be smart.
* Also having the users get ahold of the company for forgetting passwords and have them talk to team members to get help.
* Having a firewall in place to prevent a hacking attempt.

### Functional Requirements

*Using the information from the scenario, think about the different functions the system needs to provide. Each of your bullets should start with “The system shall . . .” For example, one functional requirement might be, “The system shall validate user credentials when logging in.”*

### 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 interface would need to have ways for the users to easily make appointments for driving tests and make changes to their information at anytime before the appointment.
* Having a way to make an account and a way to make payments. Getting materials needed for the tests.
* A mobile device and a computer even an internet browser could be needed for the program.

### Assumptions

*What things were not specifically addressed in your design above? What assumptions are you making in your design about the users or the technology they have?*

* That the company has been using a different program to try to have the appointments that customers need for the driving tests but it was probably not the way that they wanted to do thing or that it was time consuming.

### Limitations

*Any system you build will naturally have limitations. What limitations do you see in your system design? What limitations do you have as far as resources, time, budget, or technology?*

* The limits that would come in on development with a system like this is the size of the teams that would work on the different parts of the process.
* Having enough time and the delays that could happen with the coding side of things.

### Gantt Chart

*Please include a screenshot of the GANTT chart that you created with Lucidchart. Be sure to check that it meets the plan described by the characters in the interview.*

Timeline

Description automatically generated