# CS 255 Business Requirements Document Template

Complete this template by replacing the bracketed text with the relevant information.

This template lays out all the different sections that you need to complete for Project One. Each section has guiding questions to prompt your thinking. These questions are meant to guide your initial responses to each area. You are encouraged to go beyond these questions using what you have learned in your readings. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead, the goal is to complete each section based on your client’s needs.

**Tip:** You should respond in a bulleted list for each section. This will make your thoughts easier to reference when you move into the design phase for Project Two. One starter bullet has been provided for you in each section, but you will need to add more.

## 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?*

* The purpose of DrivePass is to build a platform which allows new drivers have better driver training before client’s driver tests at local dmv. The system will allow multiple customers to take online classes and practice tests. They will also be able to schedule on-the-road training. All of this assessable via the web and using cloud storage.

### 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 owner should be able to access data from anywhere, different rights and roles audit log of all modifications. Print an activity report that pulls from audit log. Make reservations for driving online. Identify the driver many drivers and many cars track which user is matched up with a certain driver, time, and car. Manage packages. Connected to the DMV

### 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?*

* When this system is completed, the customer will be able to schedule appointments, upon scheduling the user information and card information will be taken in and stored. They will be able to select packages and it will correspond with additional appointments spread out. The system will run off web and be cloud based. When the customer’s account is created, they will be taken to a home page where they can see online tests and view their progress. It will show name, time taken, score, and status (progress, failed, or passed.) You will also be able to modify or cancel appointments made.

## 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 will be a web-based system with a cloud as a service for storage. There should be limited downtime and quick response time of 3.5 seconds. Updates should be rolling with limited maintenance windows.

#### 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?*

* We will be using a service Like aws it will run on linux but allow for compatibility amongst all web browsers. Using a service like this will cut back on the equipment needed, it also should allow for the least amount of effort in maintaining.

#### 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?*

* I think the best way to distinguish between different users are by username that are case insensitive. It will have every username a different person and it will store all the customer information like first and last name. The admins will be place in a separate group then the customers. I think the system should log all errors for example login attempt failures and site issues. It should be to the admins to decide what they do with the logs.

#### 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?*

* The code should already have written functions to allow changes on users accounts like adding removing and modifying. This will not change the code just what information is stored. I think the IT admin need to be only able to access certain features like what kind of documents are on the site, be able to modify accounts and have full access to appointments. They should not have access to change any of the code.

#### 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?*

* To log in the users, need an account. They will create an account with a username and password. The following requirements will be met for password. At least 16 characters one uppercase and at least one special character. You will not be able to use your last three passwords. If the account gets four wrong login attempts the account will be locked and will need to reset via email. This will prevent brute force attacks and add extra layer of security.

### 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.”*

* The system should allow for validation when logging in while also having the capability to reset a password. The system should save appointments when a customer makes one. The system should have admin page to allow administrator functions. The system should allow reports to be printed. The system shall report security and application logs.

### 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 needs of the interface are to be easily displayed for the customer to access everything. The different users are the admins, owner and customers. The owner should be able to access data from anywhere. They should also be able to run activity reports. The admins should be able to update the site with relevant information and to also manage customer accounts and appointments. Users should be able to make and modify appointments as well be able to access their tests and reading materials.

### 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?*

* The assumptions made were password requirements, and the system response time. Another would be the assumptions of tools needed since a cloud service provider was not selected.

### 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 limitations for this will be timing. Since we are planning to complete it by may 9th it dosent account for any changes to the system after presented the system. Another limitation will be on budget this can affect what kind of servers and storage we run.

### 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