# 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?*

* To provide the client DriversPass with a fully functioning online tool for their customers to be able to make appointments and access features through their online accounts.
* Take practice written drivers tests to study and prepare
* Track progress with current and past scores

### 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?*

* Keep a record of customers login information.
* Automate scheduling system with Instructor and student
* Keep DMV tests up to date on laws and regulations

### 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?*

* Provide several affordable packages that can be customized to be flexible for the customer
* Provide an easy to navigate UI
* Allow everything that can be done on their website or an option to call for customer support.

## 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?*

* Run off the web, preferably the cloud to avoid security risks.
* The system should be updated regularly to stay up to date with changes with the DMV to provide the customer with as much accurate help as possible.

#### 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?*

* Any platform that can access the internet should be able to run their program.

#### 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?*

* Every user should have their own unique username, case-sensitive as well.
* The system should inform the admin of a problem when passwords are inputted incorrectly too many times.

#### 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 ability to add, remove and modify would have to be done by changing code, which would be one of the responsibilities of the IT admin.
* The IT admin should have access to the source code, especially to continuously update changes made by the DMV.

#### 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?*

* When a user registers, they will have to provide a username and a password that meets additional requirements.
* If there is a “brute force” hacking attempt, the system should be designed to lock the account, especially after too many failed attempts, thus forcing the user to change their password
* If the user forgets their password, they will have the option to change their password through their email account that they registered with.

### 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 shall validate user credentials when logging in
* The system shall stay updated with the DMV’s laws and regulations
* The system shall allow the user to reset their password whenever demanded
* The system shall keep record of the users time logged and scores
* The system shall allow the user to make appointments for their behind the wheel test with an instructor

### 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 should be easy to navigate
* The interface should have additional features for admins in order for them to access the source code.
* Have features to be able to make appointments and compare previous scores, as well as have access to tools to study for tests.

### 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?*

* Assuming the user lives in a specific state or territory that is required
* Assuming the user has a full understanding of the English language

### 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?*

* UI features on a mobile device would have limited space simply because of the screen size. Might require several inputs to get to a page, whereas a computer has enough space to have most if not all the features on the home screen.

### 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.*

