# 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?*

* Client- DriverPass.
* Provide training for students taking the driving test.
* Website for online classes, tests, and scheduling driving lessons.
* Online test training as well as driving practice.
* Cloud based.
* Website requirements listed in Objectives and Goals.

### 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?*

* Allow users to buy different levels of service.
* Allow users to schedule driving lessons.
* Allow users to take classes online, as well as tests.
* Allow users to schedule and sign up either online, or over the phone.

### 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?*

* Must run on the cloud.
* Allow IT admin to change any user’s password.
* Ability to disable one of the packages offered.
* Show Driver Table from the interview.
* Design UI similar to the interview photo.
* Ability to download reports and work offline, and later upload them.

## 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 in the cloud.
* Only needs to be run in US datacenters.
* Web-based system.
* Updates should be done automatically.
* Must be able to download reports and later upload them to cloud.

#### 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?*

* Backend has basic CRUD operations to a Database.
* Will serve to any modern browser, Chrome, Edge, Safari, Firefox.

#### 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?*

* Admin informed if DMV website requirements updates.
* Case-sensitive usernames and passwords.

#### 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?*

* IT will be able to add/delete or change passwords.
* IT wants full access to all accounts.
* Version control for appointments to see who did what.
* Activity report compilation for appointments.
* User can reset password if forgotten automatically.

#### 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?*

* User can reset password if forgotten automatically.
* Uses HTTPS over internet for security.
* Automatically block brute-force attempts. (cloud providers have settings that will enable reCAPTCHA in the case of a detected attack)

### 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 all users by checking their hashed passwords with their usernames.
* The system shall enable users to choose a package.
* The system shall enable the user to pay online.
* The system shall enable an appointment to be scheduled in person, over the phone, or online.
* The system shall let the user email the company.

### 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.)?*

* User will interact with the interface through a browser.
* Users will include Admin, User, and PowerUser.
* Admin will have complete access to changelogs, password resetting, and able to upload and change records, as well as enabling or disabling modules.
* PowerUser will allow the user to change or update User appointments, as well as create a new account for User.
* User will be allowed to make changes to their own account information(name, date of birth, address, phone number).

### 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 will have a modern browser.
* Assuming the user can either call or go online to make appointments.
* Assuming the cloud provider will not suddenly stop hosting.
* That the DMV will release new rules, policies, and sample questions.

### 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?*

* Customization will be limited to what can be designed on the cloud.
* Must be signed off and finished by 10th of May.
* Developers have vacation during the project.
* Limited availability based on cloud provider uptime.

### 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.*

A diagram of a project

Description automatically generated