# 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 this project is to create a system for the client DriverPass to capitalize on an untapped market.
* The client wants the system to implement online practice tests as well as training and real-life assistance.

### 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?*

* DriverPass would like the system to be available both online as well as offline.
* The dev team is worried about saving changes and should work off of a cloud service.
* The website should show information such as: Driver photo, Test progress, driver notes, and other needed general information.

### 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 should be usable both online and offline.
* Push update notifications
* The ability to choose what kind of package the user would like.
* Show the user the progress made on the tests.
* The client would like to be able to keep track of which driver is matched up with a consumer with the time and which car. To implemented this an up-to-date schedule and tracking system will have to be included.

## 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?*

* The system will be able to run in a web-based environment.
* The system should run at a decent pace so that the user does not encounter any complications during use.
* The system should be updated periodically to ensure that it runs smoothly and security measure are up to date.

#### 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?*

* The system should ideally run on every viable platform to ensure that it can reach as many users as possible.
* The system will be using a cloud service to handle security measures, which in turn will take care of the back-end databases.

#### 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 will distinguish between user via an email and password ID.
* Input case sensitivity will ensure that the user's information should be more secure. The system should also implement a multi-factor authentication.

#### 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 system should allow modifications without changing the code.
* The system will adopt updates as per request from the programmers.
* The IT admin will need full access to the system to make changes as necessary such as: user accounts, passwords, and removing employees.

#### 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?*

* In order for the user to gain access, a unique username and password will be required.
* The cloud server's security will ensure that the connection between the client and the server is secure.
* If the number of failed log-in attempts exceed four the information input will be inaccessible as well as the admin being alerted of the potential threat.
* Should the user forget their password, a request password reset link will be provided. This will send an email to the user’s email address that was provided when creating the account.

### 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 provide practices tests as well as classes and real-life driving practice.
* The system shall show the progress made with the provided tests both online and offline.
* The system shall confirm login information to ensure a secure experience.
* The system shall allow for password resets if required.
* The system shall display requested packages as well as allow removal of unwanted packages.

### 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 system will need a home page with a way to navigate back and forth through the pages that will be available such as practice tests and appointments.
* The different users of the interface would be the admins in charge of the system and the customers.
* The users will need a unique username and password for security as well as a device that allows web browsing to access the site.
* The system should allow users to make changes to certain information. For example, the customer should be able to change their address if they have moved or change availability for driving appointments. The admins should be able to change instructors based on their availability or otherwise.
* The user should be able to interact with the interface through any device that have the ability to access websites.

### 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 access to the system will be available at all hours.
* The system will remain up to date.
* That all of the above are within the budget.

### 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?*

* A stable internet connection is required in order to access some of the systems features.
* The budget and the time frame allotted to get the system up and running.
* Driverpass will only have 10 cars available at a time.

### 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.*

