# 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 client in DriverPass
* The purpose is to provide better driving training to prepare people for their driving test
* Access data online and offline
* Allow users to book appointments for in person road training

### 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 wants to help people who are failing their driving test and offer better driving training
* DriverPass wants to offer online classes, practice tests, and in-person road tests
* Online classes and practice tests should be available with an internet connection or the ability to download files to view offline
* Allow users to book appointments for on the road training
* Allow the appropriate access to each user
* Able to track scheduled, modified, or cancelled appointments
* System to be run off a cloud
* Communication with DMV for updated rules/policies

### 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?*

* Allow users to take online classes and practice tests
* Allow users to download documents to view offline
* Allow users to book, modify, or cancel appointments for on road training
* Allow certain employees to view, modify, or make changes
* Allow notifications from DMV of new/updated rules or policies

## 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 needs to run on a web-based cloud.
* The system should be able to run many pages for online tests, reservations, and progress.
* The system should be updated when the DMV updates rules or policies.

#### 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 run on Windows, Mac OS, Andriod, and Apple
* The system requires a database for customers.

#### 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?*

* Each user will need to register for login access using their email address and creating a password.
  + Each user will only be allowed one account.
  + Password will need to have at least one capital letter, a number, and a special character.
* Administrators will have a separate log in.
* Admins should be informed when a customer makes a reservation, cancels a reservation, or updates their information.
* Admins will be informed when there are bugs or glitches in the system.

#### 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?*

* Changes can be made to the user like adding, removing, or modifying information without changing code.
* As DriverPass adds more features the system will perform updates.
* IT admin would need full access to the system in order to maintain and make changes.

#### 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?*

* The user will need a username or email with a password they create.
* The system will using a cloud and it will be exchanging data between client and server
* Users will have three attempts to log in and if their username/password fails they will be locked out of their account to help avoid a brute force hacking.
* If a user forgets their password there will be a forgot/reset password option where a link to reset their password will be sent to their email address

### 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 allow users to reserve, modify, or cancel appointments for driving lessons.
* The system shall offer three packages for driving lessons.
* The system shall allow users to take practice tests.
* The system shall show progress and test results.
* The system shall have online classes for users.
* The system shall offer three different packages for lessons.
* The system shall allow users download documents.

### 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 run off the web over a cloud.
* The users for this interface will be Liam, the owner of DriverPass, Ian, the IT officer, employees of DriverPass, and the customers of DriverPass.
* Liam needs to have access of the entire system, Ian needs access to user’s accounts, and employees need access to make changes or updates when needed.
* Customers need to be to reserve, modify, or cancel appointments, have access to practice tests, online classes, and documents.
* Users can interact with the interface with any device that has internet access and download documents to a mobile, tablet, or computer.

### 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 topic of budget was not addressed.
* The users will find the interface is easily accessible.

### 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 budget was not discussed with Liam.
* The plan is to have the system ready in five months.
* We may need more people on our team to work on this project to have it done in 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.*

