# 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?*

* DriverPass is a company that specializes in automobile driver education.
* They want to create a system that will help customers pass their driving tests.
* The system will allow customers to take online classes and practice tests as well as live, on-the-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 noticed that many people failed their driving tests, and they wanted to create system to help them pass their tests.
* The system should allow customers to take online classes and practice tests. It should also allow them to apply for live, on-the-road training.
* DriverPass should be able to access their data from the system from anywhere online and offline, such as reports and spreadsheets.
* The system should track when customers make changes to records.
* Customers should be able to make and change reservations.
* The system should keep up to date with DMV requirements.

### 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 allow customers to make, cancel, and modify appointments online.
* The system should allow customers to select from one of three packages when creating appointments.
* DriverPass should be able to disable a module if they do not want any more customers to register for it.

## 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 client wants the system to be web-based, operating from the cloud. The interface should be fluid enough that it does not cause interruptions for the users. The client wants the system to be connected to DMV and receive notifications whenever DMV issues new rules, policies, or sample questions.

#### 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 app should run on every platform because it is cloud-based. The backend requires a database to store information on the users, such as progress and test results.

#### 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 users of this system can be distinguished by case-sensitive usernames. Each user will have a unique username and password that they can use to log in. The system will also assign each user a different role, such as admin or user, that grants them special privileges. Admins should be informed of a problem if an error occurs, such as when a user has trouble logging in.

#### 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 IT admin should be able to make changes to users through an administrative page without having to modify the code itself. The IT admin would need special administrator privileges that would allow him to access the administrative page.

#### 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?*

* Each user will have a unique username and password that they can use to log in. The connection can be made secure by getting a security certificate for the website and using HTTPS. If there is a brute force hacking attempt on a user’s account, the website should lock the user’s account and require them to verify their identity in a different way, such as by calling the company’s tech support. If the user forgets their password, they should be able to click a “Forgot Password?” button or link that sends them an email to reset their password.

### 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 run fluidly without interruptions.
* The system shall prompt users to enter their credentials when logging in.
* The system shall allow users to schedule reservations with drivers.
* The system shall allow users to take classes.
* The system shall allow users to take tests.
* The system will show test results to users.

### 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 use for new users. It should display their test progress, information, driver notes, special needs, driver photo, and student photo.
* The owner, Liam, will want to access reports, track reservations, and be notified if something goes wrong. The IT admin Ian wants to have full access over all accounts so he can reset them if someone forgets their password or block former users. The normal users of the system should be able to watch video courses, take tests, reserve a driver, and track their progress.
* The user should be able the access the system through mobile devices or browsers. The interface should be fully responsive and designed with a mobile-first approach.

### 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?*

* There was no mention of how payment will be handled for people who enroll as students in DriverPass.
* There was no mention of a budget in the interview transcript, so we do not know if the client can afford to have the system built with all the features they want. This design assumes that clients have access to a modern web-based device (computer or mobile) with a broadband Internet connection.

### 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 main limitation is that the project must be finished in less than five months.

### 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.*

