# 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 wants to cover a void in the market for training students before taking their drivers test.
* DriverPass wants a program that provides training to customers giving them online classes, practice tests, and 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 wants the system to allow training for the customers and allow DriverPass access to the data.
* DriverPass wants a system that aid and helps customers pass their drivers test.
* DriverPass needs to have the program have maximum up time keeping the customer and DriverPass connected.
* There needs to be security, ability to schedule tests, keep up to date with the DMV’s.
* The system needs to be able to track reservations, cancelations, modifications, and have three different packages.

### 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 able to access the DMV for updates, have online courses, online tests, allow the customer to schedule tests, have security allowing the customer to reset their password, accept payments, and keep DriverPass and the customer connected.
* There needs to be a notification system between the DMV and DriverPass for updated information.
* The system needs to allow certain employees access to make changes and further the system.
* They have to pick an operating system and programming language for the program.

## 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 would like this system to be web-based. They want to use the cloud so there is little technical work on the client’s end. This system needs to be able to update automatically and send notifications to the client whenever there is an update available. This system also needs to be fast enough for their users to access it without any hiccups.

#### 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 client wants this system to be able to run on multiple different device allowing everyone a chance to use their services. Using the cloud for DriverPass would allow them to not have to have any extra tools as the cloud should already manage the security and databases for the backend of the system.

#### 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 need to be able to create their own account with username and password during the initial sign up. This input needs to be case sensitive and have another authenticator for enhanced security, like a 2FA. The system should inform the admins of any problems that may arise, like any malfunctions.

#### 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 would need full access to the cloud, allowing the admin permissions to maintain the system and check for any cyber attacks and that the system is running smoothly. The IT admin also needs to be able to add/remove/modify the users and employees without the code needing to be changed.

#### 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?*

* For the user to be able to log in, the user would already have to have an account and sign in with their username and password. If they don’t have an account yet they would have to call DriverPass and create one by giving them their name, number, location, and payment information. If there is a brute force hacking attempt the IT admin should receive a notification of multiple attempts made into the specific account and lock down the account until they can reach the user to get it reactivated for them. If a user forgets their password, they can follow the instructions on being able to change 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 allow the user to enter their username and password to log in.
* The system shall allow the user to book reservations.
* The system shall allow the user to take practice tests and take their classes.
* The system shall show the user the driver that they are connected with.
* The system shall offer the user three different packages allowing them to choose the one that fits their needs.
* The system shall provide a user friendly UI that runs fast and efficiently.
* The system shall provide the IT admin access to the user accounts and their privileges in the system.
* The system shall show the work the user has completed.

### 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 able to scale to different aspect ratios as multiple devices will be using the system. It needs to be user friendly and intuitive. The user should be able to schedule lessons and take their courses and practice tests. The user should also be able to add any special needs that they would need for driving and be able to add a picture of themselves.

### 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?*

* One thing that was not addressed was the budget DriverPass has for this system. Because of this, the assumption we are making is that everything needed to build and maintain this system DriverPass is able to cover.

### 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?*

* Some limitations that we may have are that we have a limited timeframe approximately 5 months. We also need to ensure that we meet all the requirements set out. We may need multiple teams to complete it so that might mean hiring more people for the project or working overtime to complete it.

### 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.*

