# 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?*

* Liam is the owner of DriverPass and he wants to create an interface that allows customers to train to be a driver because they feel like there is a hole in the market that needs to be filled.

### 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?*

* He wants the customers to be able to take tests and be provided with training if needed. The clients want to be able to access the data online and offline and have the ability to cancel or modify appointments. They also want customers to sign up using their necessary credentials along with pickup and drop off address.

### 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?*

* When completed the system should be a fully functioning website that allows customers to book, modify or cancel their road training. It should also allow customers to take practice tests and classes online. In order to build the system, I will use object models, process models, and UML diagrams.

## 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 should be web-based in the form of the website over the cloud.

The system should be fast enough to allow users to access the website without any complications.

The system should be updated at any point in time the client decides to add new features.

#### 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 platform should be able to run on Linux and it will use cloud to manage security which will take care of all the databases required.

#### 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?*

* Every user should be able to create a username and password when accessing the website. The input should be Case-Sensitive and the system should have multi-factor authentication to prevent account hacking.
* The system should also notify admins when there is any problems like glitches or bugs.

#### 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 will allow for you to make modifications which allow you to add or remove users without changing the code
* It will be slowly introduced into platform updates when new features need to be implemented.
* The IT admin will have full access to the system to make any changes or remove former 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?*

* The user will require a username and password to login along with MFA.
* The cloud will be responsible for data exchange between client and server.
* The system should disable the account after 4 incorrect logins.
* If a password is forgotten the user should be prompted to enter the email they used to sign up and get a link to reset the 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 validate user credentials when logging in.
* The system shall book reservations when made by the user.
* The system shall provide practice tests, and classes.
* The system shall show the driver the customer is paired with.
* The system shall offer three different driving packages.
* The system shall run fast and efficiently.
* The system shall provide custom access based on the user and their privileges.
* The system shall show the tests and work the user has already 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 must provide the customer the option to make reservations.
* Must allow driver pass employees to go in and make changes as needed.
* The user should be able to use the interface with a mobile phone.

### 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?*

* We weren’t given a budget for the system. Due to this all of these are just assumptions about building the system. This includes using linux with a cloud.
* Assuming we have access to this technology.

### 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?*

* Roughly 5 months to build this system without a budget.
* Need more people to build the website.
* It is best to use an agile approach.

### 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.*

