# 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
* Liam wants to build an interface for driver training
* He wants the interface to be able to take tests and provide results and comments
* He wants to offer on-the-road training with different package options

### 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?*

* The system should offer an option to make reservations for driving sessions
* The system should allow users to make appointments, modify, and cancel them
* The customer will register with their credentials
* The problem they want to fix is the driver test’s failure

### 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 finished system should display a home page with a logo and links to other pages
* Another page is a contact us page
* Another page is a driver notes page
* Another page is a table to keep track of when and who is driving
* Another page is a way to contact the student is helping as well as the driver’s information
* The interface should take the user’s credit card information, name, address, and pick up and drop off location

## 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 need to run on a web-based or mobile application environment such as a website that can connect to the cloud
* The system should run fast enough such that no user encounters complications when accessing the website
* The system should be able to update anytime the client wants to add a new feature or package

#### 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 be able to run on all platforms to allow the most users access
* The system will be using the cloud to manage all security allowing the cloud to also manage all the databases on the back end

#### 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?*

* Liam, the head boss, will be given all access. Ian, the IT officer, will be given access to maintain and modify the system. The secretary needs to be given access to answer phones and make appointments. Customer users will be given access to make appointments, cancel, and modify appointments. Each user will give a unique username and password.
* The input will be case-sensitive with multi-factor authentication for security against hackers.
* The system should inform the admin immediately when a problem occurs

#### 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 you to add, remove, or modify a user without changing the code
* The system will begin platform updates when a new feature or package needs to be implemented
* The IT admin will need full access for maintaining and modifying the system

#### 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 log in they will require their unique username and password, as well as a multi-factor authentication
* The security of the connection between client and server is the cloud’s responsibility
* The system should disable an account after 3 incorrect attempts to log in to prevent brute force hacking attempts
* If a user forgets their password, they will be able to click on a link that will prompt them to enter the email linked to their account 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 validate user credentials when logging in
* The system shall make reservations when made by the user or secretary
* The system shall include practice tests, classes, and resources
* The system shall share the information of the driver with the customer
* The system shall initially offer three peer driver-led package sessions
* The system shall run efficiently and with adequate speed
* The system shall provide unique access based on a user’s privileges
* The system shall show a progress report of everything a user has completed thus far

### User Interface

*What are the needs of the interface? Who are the different users of 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 needs of the interface are that a customer must be able to take online practice tests and classes as well as schedule on-the-road driving lessons with a paired driver
* The different users of the system are the boss and IT admin, the secretary, and the individual user
* The boss and IT admin must have full access, the secretary must have access to accounts and making appointments, and the individual user should have access to their individual page as well as making, modifying, or canceling driving sessions
* The user should be able to access the interface from any mobile phone or browser

### 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 assumption we are making is the budget of the project. A budget was not given so we must make an assumption that there is enough for the cloud backup and the building environments
* Another assumption we make is already having access to the technology required. If the technology is not currently in possession, it will take time and money to precure it.

### 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?*

* One natural limitation is time. From start to finish the system should be up and running in less than five months
* Another limitation is budget, there was no given budget so it may prove to be a limitation
* A final limitation is people, from the interview it seems there is only a five-person team that is to complete this system design

### 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.*

*Chart

Description automatically generated*