# 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 purpose of this project is to create a system that helps students learn how to drive. The clients are Liam and Ian, and they want their system to be able to access data anywhere online and to be able to reset their password or block their access.]

### 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 able to offer customers online classes, and practice tests to help them pass a driving test. The problem that they want to fix is people failing their driving tests. The different components that are needed for this system are: to access data, reset passwords or block access, a driver reservation and cancel activity report, a driver appointment package, and the system needs to run in the cloud.]

### 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 customer can make an appointment with package 1 that has six hours inside a car with a trainer, package 2 that has eight hours inside a car with a trainer and an in-person lesson, or package 3 that has twelve hours inside a car with a trainer, an in-person lesson, and online class with practice tests. Every driving session is 2 hours long. Also, the system will show if the drivers are progressing or not. Also, the customer can cancel the appointment. Also, Liam, Ian, and the secretary can reset their password or block their access, make the customer appointment with the customer’s information, and have access to their data with each different role.]

## 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 environments that the system needs to run in is a web-based in the cloud for backup and security, to be able to have access to data by a computer, phone, or tablet, and to be able to download the reports of the drivers’ tests. The system needs to run in one second or less. The system should be updated every week.]

#### 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 the platform of Windows so that Liam, the owner of DriverPass can work on the reports of the drivers’ tests on Excel. The back end does require a database to support the application of the drivers’ that took online tests, and road tests so that Liam can tell who passed and who failed so that Liam can work with the drivers’ that failed.]

#### 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?*

* [I will distinguish between different users by their different email addresses and passwords. The input should be case-sensitive so that it makes it harder for drivers to get into another driver’s account beside their own. The system should inform the admin of a problem if a driver user tries to login into an account two times.]

#### 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?*

* [Yes, because I could use source control for the code, Ian can reset the driver users’ passwords if they forget it, Ian can block driver users access if they are no longer part of the program, and Liam can track the user drivers’ that made reservations to take a driver’s test and the user drivers’ that canceled. The system will adapt to the platform updates by a developer or a system analyst. The access that the IT admin needs is full access to the driver user accounts to see who made reservations to a driver’s tests, to see who cancelled their drivers test, and to block access to the drivers that no longer are part of the program.]

#### 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 would be required to enter in their email address and password to log in. I could secure the connection or the data exchange between the client and the server by using HTTPS in the web-based to make it encrypted. If there is a “brute force” hacking attempt on the account, then Ian the IT admin would be notified, and Ian would close the account down. If the user forgets their password, then Ian can reset their password by the user’s 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 verify the user’s email address and password when they log in.”]
* [“The system shall allow Liam to access data and download the drivers reports to work on.”]
* [“The system shall allow Ian full access to the drivers accounts to reset their passwords, and block access to the users that are no longer a part of their program.”]
* [“The system shall allow Liam to track who made a reservation for a driver’s test, and who canceled their driver’s test.”]
* [“The system shall allow the users to call or go to the office and make an drivers appointment with the secretary.”]
* [“The system shall allow the customer to pick one out of three packages for the driving tests.”]
* [“The system shall allow the customer to register by phone call to give out their name, address, phone number, state, credit card number, expiration date, and the security code.”]

### 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 needs to run off the web in the cloud for backup and security. The different users of the interface are the customers, Liam, Ian, the secretary, and the students. It will show that the customers passed or failed. Liam can view all the tests. Ian creates the interface to run off the web in the cloud for backup and security. The secretary fills in the students’ information. The student fills their own information out. The user will interact with the interface by the 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?*

* [The things that weren’t specifically addressed in my design above are creating small steps. The assumptions that I am making in my design about the users or the technology that they have, is that you must start somewhere, and it looks like a decent team.]

### 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 limitations that I see in my system design are security, and hardware. The limitations that I have as far as resources, time, budget, or technology are hardware, can only spend so much on the budget, and the technology needs updated.]

### 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.*

[A screenshot of a computer screen

Description automatically generated]