# 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 client is the company DriverPass. Liam, the owner would like to create an online driving training for his customers. He would like his customers to be able to take online classes and practice tests in his system.

### 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 problem is 60 % of his customers fail their driving test because they only practiced with past tests. He wants to solve this problem by allowing the customer to have online classes and many practice test.

### 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?*

* This system should be able to help students take online practices and practice test to pass their driving test at the DMV. The system should also be able to let student book for on the road training with instructions from DriverPass. Liam wants the system to be accessible anywhere from any device, online or offline.

## 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 run in web, preferably in the cloud because they do want to deal with security or storage issues in the future. The system should run fast from any computers, and the system should be connected to the DMV site to show any updates in courses. This will allow the company to have the latest updates in training tests.

#### 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 any platform such as windows or mac. The user did not specify any specific device but they said they need to be able to access it from anywhere. The system will be on the cloud, so for right now there isn’t any backup system or database that it will need. The client wants to focus on the business and reduce any technical difficulties for the moment.

#### 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?*

* Each user will give their personal information such as first name, last name, and email address. They will be able to access the system with their own credentials after registration. They can reset their password if necessary. The admin should be able to get any notification of issues such as forgotten password to help them recover it. The admin can also block a user if they quit the company for example. The admin also has a full report of any customer’s reservation or cancellation.

#### 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 admin can add or remove a user without making any changes in the code. To perform it, the admin, Liam, will have full access to the system to make these changes.

#### 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 need to register in the system with their first name, last name, address, phone number , state , and credit card information. They will need to log back in with their email and password create, if they forget their password, they can reset it automatically. There should be more security in place to prevent any hacking attempt but we are still in the basics to have the system up and running.

### 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 offer three different driving packages.
* The system shall book reservations when made by the user.
* The system shall show the driver the customer is paired with.
* The system shall run fast and efficiently.
* The system shall validate user credentials when logging in.
* The system shall show the tests and work the user has already completed.
* The system shall allow the driver to add any comments about the training with the student
* The system shall provide practice tests, and classes.
* The system shall provide custom access based on the user and their privileges.

### 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 user should connect to the system’s interface with any type of device such as phone or tablet. The interface allows customer to make appointment, cancel or modify appointment. The interface allows customers to pick any package deals they would like to and allow them to take online test practices. The interface allows the DriverPass employees to login and make any changes in the system, the secretary can even make registration through the 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?*

* In the interview, the budget was not mentioned. So, we assumed that everything we will need such as using the Cloud as an environment won’t be a problem because there isn’t a set budget limit.

### 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?*

* Timing and resources are the major limitations this project will face because there aren’t enough people on the team to complete this project within 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.*

Timeline

Description automatically generated