# 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?*

* To provide people with tools to help them pass their driving test
* DriverPass wants us to help them create a website that offers online help for students planning to take a drivers test

### 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 they are trying to fix is the number of people failing their driver test
* A way to fix this problem is by DriverPass providing online exams and classes through their system.
* The system should let you access the website and its data from any device with internet
* The system should have security measures in place so the user can log in to their account and see their own information
* The system should track when things are scheduled, rescheduled and if there are any cancellations

### 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 functional website that anyone can use to book, modify or cancel any classes or on the road training.
* The system should let the customers enroll and participate in online classes.
* The system should limit what access is given to customers and employees.
* To achieve this there will be object models that are made, process models and UML diagrams.
* An operating platform must also be chosen and the languages to use on the website.

## 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 needs to be web based since it will be a website.
* The system needs to run fast enough for the users to access the website without any crashes or errors.
* The system should be updated when necessary to add any 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 system should be able to run on any platform.
* The system will use the cloud for security management purposes, which in turn takes care of the back end databases.

#### 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?*

* To distinguish between different users there will be usernames and passwords. These are given to only one user and the input needs to be case sensitive. There can be a two-factor authentication feature to let the user put their phone or email to confirm it’s them logging in.
* The system needs to alert the admin when there are any website crashes or bugs, so the website can be fixed in an orderly fashion.

#### 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 modifications to happen to users without changing the code.
* The system will get updates when there are new features to be used.
* The admin will get full access to the system so they are able to make any necessary 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 provide a username and password to log in, and if enabled the two-factor authentication
* The cloud will handle the exchange of information between the client and server.
* If an incorrect password is put in four times, then the account should be locked.
* If a user forgot their password they will be prompted to enter the email they signed up with so they can receive a password reset link.

### 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 a user
* The system shall provide online tests and classes
* The system shall show which driver the customer got assigned
* The system shall offer different package options to the customer
* The system shall run smooth and efficiently for the user
* The system shall give different users different privileges and access depending on what account they have
* The system shall show any completed tests and work to the customer

### 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 provide the customer options for online classes, tests and reservations for driving packages.
* The interface needs to let employees adjust things on the website and make any necessart changes.
* The user should be able to use the interface from various electronic devices such as phone, tablet, or laptop.

### 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?*

* There was no given budhet for the system, so the assumption is whatever we use to builf the system will be covered by the budget.

### 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?*

* There was no budget given for this project and a short time frame.
* There is a lack of employees working on this project, we will need more to complete it by the given time frame.

### 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