# `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?*

* Our client DriverPass is looking for a system that provides better training for new drivers.
* This training will be an option for the driver before taking the test at the DMV.

### 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 at hand is there is so many people that fail their driving test before passing.
* DriverPass wants their system to offer online classes and practices to better prepare them for their first test.
* They would also like to offer on-the-road training.

### 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?*

Functions for the user:

* User credentials creation.
* Book an appointment.
* Password reset if needed.

Functions for DriverPass Employees:

* Visibility on driver, time of appointment and car selected for the activity.
* Connection to DMV for updates (notification process for updates)
* Show customers with scores from their tests.
* Driver instructor comments such as time start, time end and comments on performance.

## 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 load times for users should average 1-2 seconds.
* System to notify if load time exceeds 3 seconds.
* System updates on a weekly basis.
* Cloud environment

#### 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?*

* Should be able to run on any OS (Windows, MacOS, Linux)
* System should be able to run on any computer browser.

1. Microsoft Edge
2. Google Chrome
3. Safari
4. Firefox

* Should be able to run on any mobile device Platform:

1. IOS
2. Windows Phone
3. Android

* Needs to store user and system information.
* Needs webserver to process requests.

#### 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?*

* The system can identify different users.
* Password is case-sensitive.
* System notification to admin for any issues should be daily.

#### 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?*

* Any changes to user info must be done without changing the main code.
* System can adapt to any updates.
* Admin to be the one to access web server and database, for any modifications.

#### 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?*

* Password requirement for users to log in.
* Two force authentications.
* Users will be locked after multiple failed logins.
* If they press reset password, notification will be given to admin.

### 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 ask for Username and Password
* The system shall validate credentials entered.
* The system shall open the main page.
* The system shall book reservations.
* The system shall show practice tests and class choices.
* The system shall show the driver the user will train with
* The system shall offer 3 different packages.
* The system shall show work 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.)?*

* Users use interface through browsers online with computers and mobile devices.
* There will be different interfaces for the different user levels (User, admin)
* The customer interface can look like this:

1. Login/sign up page.
2. Home page
3. Test Progress and score
4. Pass fail results.
5. Update user Personal info
6. Schedule of lessons and notes
7. Package information
8. Tools
9. Contact page

* This is what an admin page would look like:

1. Visibility on user registered.
2. Booked appointments, and to which user and the match up of the driver and car.
3. Notifications of password resets.

### 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?*

* Access always to website.
* Interface will be simple enough that any user could navigate the website.
* Admins are competent to work on all website functionalities.

### 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?*

* Upkeep of car float
* Internet connectivity issues.
* Limit to customers per day based on availability of cars.
* Customers may have different cars than the ones in the float (SUV vs small car)

### 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.*

