# 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?*

* DriverPass discovered there are limited opportunities for helping drivers pass their driving exam.
* DriverPass wants to assist by creating a website that can provide drivers with practice exams, online classes, and an option for on-the-road training.
* Management and status information on test progression or results.
* Easily accessible and Liam wants to be able to access the system remotely both online and offline.
* Connection with DMV and notification of system updates.
* Tracking of usage from both the user and employees with customized system control 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?*

* DriverPass wants the system to help drivers pass their driving exam.
* DriverPass wants to provide the solution by creating online classes, practice exams and an option for on-the-road training.
* This needs to be a secure system for the variety of users and the information that is being given.
* There needs to be three different packages that are offered, as well to book and cancel appointment via the internet.

### 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 complete system should allow people to reserve, change, or cancel their road training.
* Needs to allow people to take practice exams and online course through 3 different packages offered.
* Roles need to be implemented for different users and the access they will have in that role.
* The different components needed for this system are security, data tracking with minimal maintenance, appointment scheduling based on driver and vehicle availability.
* Fully accessible remote access for Liam.

## 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 allow access from anywhere online without any issues or complications to the user.
* The system should be web-based. This should be done in the form of a cloud-bases website.
* The system should be updated any time the client decides to add new functionality.

#### 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 through a web browser.
* The cloud will manage all security and include all the databases necessary for 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?*

* Each user will have a username that is unique to them.
* The password will be the only thing that will be case-sensitive.
* Any complications such as malfunctions or faults with the system should be reported to the system promptly to be handled as soon as possible.

#### 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?*

* You will be able to make changes to users and remove/add/modify them from the system without having to change the code.
* The system should be gradually included into updates. If DrivePass secedes to introduce new functionality to the website then a platform update should be made.
* The IT administrator should have full access to the system. As they will need to be able to make any modifications or delete previous employees who no longer need access to 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?*

* To log in to the system the user is required to have a username and password, as well as a two-factor authentication.
* The data exchange between the client and the server will be handled by the cloud.
* If there is a “brute force” hacking attempt the system should suspend the account until the user verifies through the two-key authentication.
* If the user forgets their password, they will have to provide their email address they used to establish the account. This will send a link to that very same email address and will be prompted to provide a new password through the link that was given.

### 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 grant customized access based on the user’s privileges.
* The system shall function quickly and efficiently.
* The system shall provide three distinct driving packages.
* The system shall display the driver with whom the user will be partnered with.
* The system shall provide practice books and classes for testing preparations.
* The system shall provide the ability to book a reservation for on-the-road training.
* The system shall require validation of user credentials to log in.

### 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 should be easy to navigate.
* The interface should allow for the users to be able to make bookings for on-the-road training, different packages, online lessons, and practice test.
* Administrators should be able to log in and make changes to functionality or design as well as updating the system if needed.
* Any user should be able to login into the website if they have an internet connection. This should be done on a mobile phone, laptop, desktop, or any other device that can use and interact with a 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 design is assuming that users will have access to desktop or mobile browsers and an internet connection.
* A budget was not given for the system. The assumption is that all the stuff that is being used to build the system will all be in 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?*

* Two limitations would be time and the budget. This is moderate size app and even in having all the resources to execute successfully, sometimes certain areas of the project can take longer than anticipated. Trying to build the system on a schedule and without going over the budget is something that needs to be planned. This can be done from the beginning and regularly assessed to ensure everything is staying on track and within budget.

### 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.*

See Below

Chart, waterfall chart

Description automatically generated