# 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 clients for this project are Liam, Driverpass’s owner, and Ian, his IT officer.
* Create an online system to help users take online classes and practice test to help users pass their road test.
* Have the system be able to schedule in person driving training for users as well.

### 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?*

* Allow users to make profiles.
* Offer online classes and practice tests.
* Let Liam access data online and offline.
* Admin system for customer assistance.
* Webpage for packages.
* Allow users to schedule on-the-road training.
* Track what users make modifications to driving appointments and be able to print data.

### 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?*

* User profiles can be created.
* User can access online classes and practice tests.
* User can schedule on-the-road training.
* User can contact customer support.
* Liam can access data online and offline.
* Ian can use admin privileges to reset passwords and other admin abilities.
* Schedule modifications can be tracked by user and data can be printed out.
* Webpage to show users packages offered.

## 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?*

* Web-based over the cloud.
* Should update when DMV standards update.

#### 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 work on windows, mac and linux since they are the most common.
* Backend needs access to databases of users, scheduling changes, user info for road training.
* Backend also needs to be able to assist customers with technical issues such as forgetting password.
* Data needs to be accessible both online and offline.

#### 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?*

* Users will have a profile that they have to use a username and password for.
* The password will be case sensitive for more security.
* The admin should alerted after multiple failed login attempts or when a user ask for assistance.

#### 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?*

* User can cancel or modify road training.
* User can reset password.
* Admin needs ability to change user passwords or reset accounts.
* Admin needs to be able to lock out ex-employees.
* Admin needs database access.

#### 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?*

* Users will need a username and a password.
* Secure connection using two-way authentication for extra security.
* Lock account after number of failed attempts to prevent brute force attack.
* If a use forgets their password they can ask for customer assistance or reset it themselves.

### 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.
* The system shall alert admin when issue validating credentials.
* The system shall alert admin when user request help.
* The system shall allow users to schedule road training.
* The system shall track user modifications to schedule.

### 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 will interact with the interface using their computer browser.
* Interface needs to show student information and photo, their online test status, the drivers photo and any notes that the driver has for the student.

### 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?*

* System is available 24/7
* Assume system will remain up to date with DMV standards.
* Can assume users are DMV students.

### 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?*

* Clients budget and timeframe.
* Must be based on DMV standards.
* Scheduling needs to take into account that the client only has 10 vehicles.

### 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 picture containing text, screenshot, number, diagram

Description automatically generated