# 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 for this project is “Driver Pass”.
* The client “Driver Pass” is looking for us (with our skills) to create a system for what they find to be a void in the market, of a system for training students for driving tests, at local DMV’s
* We’d be creating a system/interface that allows users to register online, schedule, and make payments online.

### 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 be able to help and assist customers online in getting ready prior to a driving test, such as online classes and tests for practice, as well as booking on-road training.
* The problem they’re looking to fix is the void in not having any form of online practice from the local DMV before a driving test. Also, overall better services for driving training to prevent high failure rates from local DMV customers.
* The different components that are going to be needed from the system are online classes for users, as well as practice tests that can be taken, and a scheduling system for on-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?*

* Security functions such as unique usernames and passwords but with the implementation of allowing users to reset passwords if forgotten.
* There should be a system where users can complete practice quizzes/tests and online courses.
* There should also be some kind of progress meter for tests so that the user can see their progress, their score, and whether they had failed or passed the test.
* Have notifications that are active for the user keeping them updated on guideline changes, new system changes, and schedule changes.
* Allow for access to for data both online and offline but only allow for data to be edited online (to avoid duplicated data on different servers).
* Maintain tracking for data and management of user roles/permissions.
* Customers should be able to book/schedule driving lessons online (the specific date and time they want as well).

## 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 should of course be able to work on web applications as well as mobile devices as mobile usage is much more common in the modern day.
* The system should of course be able to run fast and efficiently with no complications.
* The system needs to be updated often as well as automictically so the user can come back to updates and not have to wait, leading to inconsistencies and frustrations.

#### 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 needs to run on popular OSs such as Windows, MacOS, Chrome etcetera (for a broader audience).
* The back end would be covered by whatever OS the user is using. One of the only databases required would most likely be some sort of customer info database to safely track the user's history.

#### 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?*

* Every new user will have to create a fresh account, that requires a unique username and password for no users having duplicate usernames.
* Case-Sensitivity only for password and usernames.
* Options for a password reset will be allowed if the user forgets their password, requiring them to get a verification reset notification to their registered email, in order to reset their password.
* The admin would also be informed of any current bugs or updates to the system.

#### 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?*

* Changes to the user will be allowed, without changing any internal code.
* The system also needs to be able to adapt to the platform updates with ease, for an intuitive user experience.
* IT admin needs access to the database in order to be intertwined with 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?*

* The user will be required to enter their passcode as well as their unique username.
* The cloud service will secure the connection or the data exchange between the client and the server.
* If there is a “brute force” hacking attempt the account would be suspended for a specific amount of time based on forced entry to ensure safety.
* In the event a user ever forgets their password, they will be sent a verification code to their assigned email to then change their current password to a new password.

### 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 allow users to create a unique username and password for signing on.
* The system shall allow users to reserve their driving lessons and dates they would prefer.
* The system shall allow practice tests to be taken online as well as online driving classes.
* The system shall run with minimal/no issues and be an effective service.

### 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 interface needs to be intuitive to allow users to reserve their driving lessons when necessary as well as access online courses and practice tests.
* Users should have unique interfaces that are similar in design but have their personal schedule driving dates and progress in driving courses.
* Users should be able to interact with the interface through mobile and on computer 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?*

* No specific budget was given but we are of course expected not to go past any ridiculous amount.
* We would assume the user has some traditional knowledge of how to navigate through an online interface.

### 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?*

* We were not provided with any specific budget, and we have a limited time frame, providing issues in regard to an unknown budget.
* The system is based on traditional cars and doesn’t have any mentions of motorcycle training or other 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.*

