# 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, wants to create a system that can process purchases of different driving lesson packages. DriverPass should be able to have employees access the system offline and provide online tests for users.

### 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 DriverPass intends on fixing with its interfade is too many kids failing their drivers test. By using a database to hold information regarding the driving packages, customer information and scheduling driving lessons.
* The system should have an internal interface to allow employees to update information and schedule lessons. The user interface should allow customers to purchase driving packages, schedule lessons, access their account and take online tests.

### 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?*

* Allow employees to manager user settings and permissions.
* Allow employees to create and edit reserves for customers.
* Handle and create changes to driving lesson packages when applicable.
* Create a trail when an edit is made by an employee.
* Provide an online interface for customers to browse, schuedhle lessons or tests.
* Allow customers access to password resets if they forget their account information.
* Update and notify Driverpass when the DMV changes regulation permissions.

## 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?*

* System needs to be web based.
* Website should be able to work on all web applications, along with responsiveness depending on which device is being used.
* System should bel updated regularly with downtime notices in advance.

#### 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?*

* UI should adapt to whichever platform is being used.
* Web will be run on popular browsers (Chrome, Firefox, etc). This will be operated by the front end.
* In turn, the backend will handle the system database and user information.

#### 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?*

* User passwords must be case sensitive and include special characters.
* System will detect critical errors as they occur for optimal updating and upgrading time. Reports will also be done daily to ensure smooth operators.
* System will use cookies based on session to differentiate between users.

#### 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?*

* Web application will maintain updates on avaiable browsers.
* IT Admin will have access to the database to ensure any upgrades as soon as possible, including the web application.

#### 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?*

* Case sensitive and special character inclusive password for user and admins to log in.
* System must have option to reset password via the email linked in the account.
* Accounts will be "locked" after 3 attempts involving an incorrect 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 validate the user credentials when logged in.
* The system shall lock customer accounts after 3 incorrect passwords. It will require a password reset after the 3rd attempt with a link sent through email associated with the account.
* The system shall update customer and order information based on user commands.
* The system shall track available and taken appointments to avoid double booking and conflicts between lessons.
* The system shall schedule customer appoints in response to orders placed or edited by admin.

### 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 be web based and adapt depending on what device the user is on.
* Admin will require access to scheduling and appointment making, along with editing.
* Customers should have access to their orders, package information and their account information.

### 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?*

* We can assume users have access to an email, web browser and mobile device
* We can assume API can track changes made from the DMV accordingly

### 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?*

* Must follow the timeline set by the client, at least 15 weeks or less
* Front end must be compatible with all web browsers
* Be prepared for changes to DMV at any point

### 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.*

