# 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?*

* This project is for one of our clients, DriverPass. The purpose of the system is to help students study and prepare for their driving license exam.

### 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 client asked us to build a system that allows students to take online or practice exams, make appointments for in-person lessons, and modify existing appointments.
* The system will be accessible to the public via internet connection.
* The client can access the system without an internet connection.
* The system should be connected to the DMV website to ensure all information is new and accurate.

### 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?*

When completed the user will be able to:

* Take practice exams online.
* Make in-person practice appointments.
* View or change existing appointments.

## 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 main screen of the website should be visible immediately when viewing on a web browser.
* Changing from page to page on the website should load in less than 5 seconds.
* The website should be continuously updated using the DMV website for latest rules and regulations.

#### 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 website should be available to view from any operating platform.
* Database is required to hold customer account information as well as past appointments.

#### 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 will be able to distinguish individual users as well as admin access. Verification and password requirements will be used to determine status (user or admin)
* Username and passwords are case sensitive and specific to each individual user or administrator.

#### 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?*

* The system should adapt with regular (weekly or bi-weekly) updates from the DMV, to remain current with the latest rules and regulations.
* IT admin will have complete access to front and backend information in order to be able to solve all issues quickly and efficiently.

#### 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 be asked for username and password.
* After 5 failed attempts, users will have to call receptionist for a password reset.
* “Forgot Password” option will redirect to email verification and a password reset.
* The system will keep records of all account activity and changes in case of hacked account.

### 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 determine and verify user information when logging in with username and password.
* The system shall present driving package options to the user for selection.
* The system will hold a record of the users’ past appointments and practice tests in the user account information.
* The system will send confirmation emails to the user once an appointment has been made.
* The system will show backend information to IT and administrative users based on log in information provided.

### 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 of the main screen includes Test progress, account and personal information, driver notes, special requirements if needed, a student photo, and a driver photo.
* When selecting one of the main screen options, the webpage will redirect the browser to the selected page by the user.
* Read aloud option will be available on each page for vision impaired students.
* Mobile phones and browser will appear the same as each other.
* Browser access will require a mouse or touchpad, and a keyboard for navigation.

### 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?*

* User will call receptionist of Driverpass to create user account before having webpage access.
* Users have a strong internet connection to access the system.
* Students are of legal driving age and have all the requirements from the DMV to have a driving permit or to take a license exam.

### 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?*

* The system can not update or be updated while not connected to internet.
* The system will stop working is electricity is disconnected or if mobile phone battery dies.
* The system will not be voice activated or respond to voice commands.
* Alexa, Siri and other virtual assistants will not have access or control of the webpage.

### 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 screenshot of a spreadsheet

Description automatically generated*