# 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 interviewtranscript 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 purpose of the project is to provide students with a way to train for their DMV driving test by providing online classes with driving tests and questions to help the student pass their DMV test.
* The purpose also includes helping beginner drivers pass their driving test by providing them access to more tools that will allow the students to gain more information needed to pass their driving test.
* The client is an organization called DriverPass, they want their system to provide the students with an online class and practice tests as well as an on-site driving class.

### 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 their system to help access the data from anywhere online and offline,
* Driverpass wants their system to provide online practice exams and classes. Driverpass would like the new website to benefit the drivers and fix the issues of new drivers failing their drivers’ test.
* Driverpass wants there to be a reservation method that allows consumers and company personnel to book any of the offered services.
* The components needed for this system would be excel, internet connection, DMV rules and regulations, up to date study guides, and the ability to access all accounts as the owner.
* The system will need a cloud operating system that will users to access their data without backup and security issues.

### 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 system should be able to allow users and company personal to access online classes and practice tests.
* The system should also allow for the users to book any of the offered services, and the ability to pick the services they want and the time blocks that fit their schedule.
* The system should give the users the ability to modify and cancel their scheduled bookings.
* The system should be have the ability to provide the services that are offered in a variety of languages.

## 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?*

* Driverpass should use a web-based system to run their program.
* The system should be updated monthly if no changes have been made by DMV that take effect immediately.
* Driverpass should use a modern based website to create their program.
* Driverpass program should be ran on a fast running system to avoid any complications when accessing the website.

#### 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?*

* Driverpass system is a web-based system, so therefore the system should be able to be ran on most web and mobile browsers.
* The backend should contain a database that stores the systems data and logs.
* The backend should contain a system that manages the security of the system as well as the requirements for the database.

#### 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 web-based system will use cookies to help distinguish between the different system users.
* The users passwords and login information should be case sensitive.
* The system should create a daily report of any errors that were reported, inform the users of any glitches or bugs, and should be able to detect any critical errors.

#### 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 users will be able to add, remove, and modify the users accounts without changing the code by using a post request form.
* The system will perform updates during non-peak hours to avoid causing any service errors when users are utilizing the system.
* It admins need full access to the system including access to the database, the server, and account information for users and the employees.
* The system will adapt to changes by ensuring that the web application that Is being used is up to date.

#### 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?*

* Driverpass will require the users to have a username and password to login to the system.
* The connection between he client and the user by sending network requests through HTTP.
* Driverpass will do a system lock on the account being brute forced after three attempts for a failed login.
* If a user forgets their password they will offered the option to send a one time code through the email or phone number listed on the users account to allow them to reset their password after verification method.

### 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 users identifications when logging into the system.
* The system shall schedule appointments based on the users request.
* The system shall provide the users with practice exams, online courses, and a driving stimulation for users.
* The system should show the users all available appointments for a month in advanced.
* The system shall lock the users out after three failed login attempts.
* The system shall send a one time code in a email or text message to the registered information on the users account.
* The system shall allow the users to schedule, modify, or cancel their bookings.

### 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 users will need an interface that will allow users to make online appointments for practice exams, driving, and taking classes.
* Users will need to have access to a computer or a mobile browser so they can access the interface that is capable with an internet connection and a browser.
* The user interface will need a home page, account information, course page, driver notes, a user profile, and contact information for customer service for driverpass.
* There will be four different types of users. The users will consist of the owner, it administrator, secretary, and users.
* The owner will have access to the entire system to be able to overview and make any necessary changes.
* The it administrator needs access to the system to be able to remove/ block users and appointments, as well as make updates to the system.
* The secretary needs to be able to have access to the system to add, modify, and remove users accounts and appointments.
* The users will need access to get system to access their profile, scheduled appointments, change or add any information, and schedule, modify , or remove their bookings.
* Users will use a mobile browser on a hand held touch screen device, and for a browser the users will use a computer with an internet 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?*

* Assuming that every user will have access to the Internet on a computer or a hand held device.
* Assuming that every user will have access to a device to access the website.
* Assuming that every user will have access to an email to create an account on driverpass.
* Assuming that the system will be available to users no matter what time of day it is.

### 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 project is estimated to be fully completed within 15 weeks, which means if any issues or errors occur they should be dealt with immediately.
* A limitation of the design on driverpass is the time and budget of the client.
* The system requires a secure internet connection to be accessed.
* A limitation is the information provided by DMV.

### 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 computer

Description automatically generated with medium confidence