# 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 purpose of this project is to create an online driver ed practice exam for students.
* DriverPass is the client, and they want the system to be available on mobile devices for both workers and students.

### 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 needs a web interface for students to register for drive time or purchase packages.

### 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?*

* DriverPass wants the system to allow the owner to access the data to download reports.
* Create accounts that only allow access to the employee's needs to complete day-to-day tasks.
* Have tracking capabilities to track reservations.
* Students should have access to create/modify/cancel a reservation.
* Students should have the ability to select a package for their reservation.
* System should connect to DMV system for any new information regarding changes with the test and policies.

## 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 will be web-based to run.
* The system will be updated at least once a month with a scheduled maintenance day.

#### 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 should be compatible with running on a phone.
* The system does require a database to support the application.

#### 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?*

* Accounts will be created for each employee with certain accesses.
* The system will send an email or alert twice a week to the IT security team with a report about the program that contains warnings and alerts.

#### 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 made to the user access can be made to the code without changing it.
* IT admin needs access to the database and server to maintain the updates.

#### 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?*

* A username and password are needed for a user to log in.
* The information exchange can be encrypted to secure the connection between the client and server.
* To prevent “brute force” the system will lock the user account after multiple failed attempts of logins.
* If a user forgets their password, they will have the option to reset it by using the link sent to their email or cell phone number.

### 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 track the appointments that are scheduled to ensure there is no overlap.
* The system shall lock the user account after multiple failed attempts of logins.
* The system shall update the IT team when an error occurs.
* The system shall email reports to the owner that contain metrics.

### 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 compatible with mobile devices.
* Students will be able to purchase packages and schedule their appointments.

### 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?*

* The assumption made is MVA is willing to sync its data with Driver Pass data.

### 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 amount of time the client gave to the team to complete the project.
* The collaboration with the DMV may be another limitation.

### 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 project

Description automatically generated