# 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?*

* Client is people trying to pass a driving test for their license (Liam, I’m starting this company to provide this type of training for my customers).
* Purpose is to provide training and practice for these driving tests. (Liam, My company will also provide them with on-the-road training if they wish. I’m starting this company to provide this type of training for my customers).

### 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?*

* Different security levels depending on employee role.
* Different learning packages depending on student needs.
* Show test progress for students.

### 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?*

* Be accessible form anywhere on any device(Liam, : I want the system to help me access my data from anywhere).
* Customers be able to reserve lessons (Liam, Our customers need to be able to make reservations for driving lessons).
* Update as the DMV updates 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 should be updated every time the user makes a change to their data (Sam).
* System should be a web-based application.
* System should receive updates when the DMV updates their regulations in order to have up to date information (Liam).
* The system should be fast and take user input withing a few seconds for a smooth experience.

#### 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?*

* Microsoft Edge (Ian)
* Google Chrome
* Safari
* Firefox
* Opera
* Android
* IOS

A backend needs to be able to save user information so a database would be helpful with that.

#### 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?*

* Users will have their own Username and passwords (Ian).
* All user information will be connected to their own account.
* Users can report a problem to the admin.

#### 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?*

* Users can create and update their own accounts without the need for additional coding.
* The IT admin needs access to all accounts to be able to reset and change passwords for the users as well as staff and even remove accounts (Ian).
* The system will be monitored and updated as needed when the platform 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?*

* Employees have different access levels
* IT officer can reset passwords and remove access
* Users will have individual usernames and passwords
* Users have a limit to how many wrong passwords they can input. If the password is incorrect too many times, they will need to reset with security questions. This protects them from brute force hacks.
* Any data sent will be encrypted so it can only be read by the server and not any unauthorized recipients.

### 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 check user passwords and usernames
* The system shall track user progress (Liam)
* The system shall track vehicle availability
* The system shall have reports for admins to access (Liam)
* The system shall have multiple plans for users to choose
* The system shall be able to reserve drivers for users
* The system shall allow users to update their accounts with personal information such as name, address, phone number, location, payment info
* The system shall allow account removal and creation
* The system shall allow users to decide pickup and drop of zones for training
* The system shall receive updates from DMV about new regulations
* The system shall allow the admin to disable a package if needed

### 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.)?*

* Interface needs to show the DrivePass logo (Liam)
* Interface needs to show test progress
* Interface needs to show user information
* Interface needs to show notes from the drivers to the users
* Interface needs to show driver photo as well as a photo of the user
* Interface needs to have section to list any special needs of the user
* Users need to be able to update their information as well as photo if needed
* Users need to be able to review their test progress and driver notes
* Users need to be able to schedule appointments for drives
* Interface should also include a contact page link to contact DrivePass
* IT needs to be able to access and change user information from their interface
* Admins needs to be able to check user information about progress and create reports
* Users will access system through a browser on their computer or mobile phone

### 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 users have internet access
* Assuming users have a device that can use the system
* Assuming users know how to properly use the system with little to no tutorial.

### 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?*

* Limited by having to be online for any updates
* Users need an internet connection to access the system
* Limited to a time constraint of 4 months
* Limited by staffing for the project
* Limited by amount of drivers
* Limited by DrivePass budget
* Limited by the experience of the team creating the system

### 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 white grid with colorful squares

Description automatically generated with medium confidence