# 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 the project is to provide better driver training to DrivePass customers.
* Client: DriverPass (Owner: Liam, IT Officer: Ian)
* Wants the DriverPass customers to be able to take practice tests and online classes in order to achieve better results on driving tests at the DMV.

### 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 sees a need for better driver training and are attempting to solve this problem with the system.
* DrivePass wants the system to allow users to take online lessons. They also would like for the system to be able to act as a scheduling system for the company.
* Components: Testing portion of site, scheduling portion of site, driver notes, information

### 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?*

* Users take Driving lessons online.
* Users able to schedule on road lessons through the system, system would take data such as name, phone number, credit card number, etc.
* User able to reset own passwords.
* System should be flexible to allow for changing of packages.
* Allow the addition of driver notes.
* Track which driver is out with which instructor.
* Ability to restrict access to certain users.
* Connectivity with DMV to stay up to date on rules of the road. Display notifications when updates are available.

## 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 needs to run in a web-based environment.
* System should be updated when new DMV requirements are released.
* System should be updated if new courses are available.
* System should update user/appointment data as soon as it is saved.

#### 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?*

* On Mobile, system should be able to run on Android and iOS devices.
* On PC, system should operate in browser on MacOS, Windows, and Linux platforms.

#### 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 be distinguishable by the use of their own accounts.
* Account names must be unique to each user.
* Passwords are required to be case sensitive.
* System will notify IT Admin upon request from the user or in the event of a major system failure.

#### 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?*

* Customer should be able to manage user information as well as add/remove/modify on their own without changing code.
* The system will be updated as necessary if platform/browser updates require changes to be made to the system.
* Customer IT Admin should have full access to the system.

#### 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?*

* User will require a password secured account to access the system.
* Customer will be able to give/take permissions on site from each user for security purposes.
* Customer will be able to reset passwords/accounts for users.
* User accounts will be locked after Five (5) incorrect password attempts to secure data.
* If a user account is locked, they must contact customer to reset 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 allow users to take online classes in relation to driving.
* The system shall allow the customer to make and edit appointments.
* The System shall allow the customer to change/reset user passwords.
* The System shall have functions to let users make their own appointments.
* The system shall have functions to allow the customer to download data.

### 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.)?*

* User will interact with Interface both in browser on PC and on a mobile device.
* User needs to be able to

### 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?*

* Users have access to the internet.
* Users have an internet connected device.
* User is on a mobile device or computer.
* Devices have access to power (Battery/Mains electricity)
* User has a verified account with DriverPass.

### 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?*

* Devices must be connected to the internet.
* Time is limited to roughly three months.

Device must have power for System to function.

* Devices must have a compatible browser installed.

### 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.*

*Timeline

Description automatically generated*

**Use Case Diagram:**

**Diagram

Description automatically generated**

**Activity Diagrams:**

**Diagram

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**Sequence Diagram:**

**Diagram, engineering drawing

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**Class Diagram:**

**Diagram

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