# 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?*

* Liam is the owner of DriverPass, would like a web-based program that will allow for booking of appointments for driving lessons in addition to access of a database with learning materials to pass the drivers 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?*

* System should be able to be accessed anywhere, both offline and online.
* Have roles so different permissions are allowed to different levels of staff.
* Track access to the database, see when changes are done.
* The ability to print out reports of changes to the database.
* Reserve lessons with one of the ten drivers/cars.
* Select which package they would like to do out of the three choices.
* Ability for the consumer to reset password if forgotten.
* Notification when DMV changes rules and regulations.

### 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 will provide the user the following functions:
  + - Access to learning materials
    - Set-up appointments and modify them if needed
    - Notifications to changes from the DMV about rules and regulations
    - Reset login password if forgotten

## 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.*

#### Site should be easy to use, uniform theme and color scheme

* Server should not go down, for constant access
* There should be a web-version so it can be easily accessed on mobile devices
* Cloud based database

#### 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?*

* Being in a web-browser system should run at top speed
* Updates should happen as soon as the coder publishes the new version
* Website shouldn’t be too resource heavy for fast refresh time

#### 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?*

* Being a web-based store, should run on all operating systems
* Should be able to run on all major web-browsers
* Needs to have a database to store all purchases and client information for login purposes
* Have a connection to bank for depositing transactions and providing returns

#### 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?*

* Each user will have a unique login and password
* Password should be case sensitive for security
* Email will not be case sensitive since emails aren’t when being registered
* Admin should only be informed about incorrect mailing address when order is already placed

#### 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 user should be able to reset their password and change their personal information when needed, including mailing address and credit card information
* Admin should have ability to access all information about the user in case it needs to be changed manually

#### 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?*

* Each user should have a password and should be under a secure connecting
* If the user forgets their password, they should have the ability to reset it
* If the attempt of login is done to many times with no success, the account should be locked for security purposes
* A piece of card information should be asked at each transaction so its easy enough for the user to not type their entire card number but shouldn’t be so easy that the whole card information is saved

### 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 different changes in a report
* The system shall have roles for users and admins, with different permissions
* The system shall allow for downloading of content to be viewed offline
* The system shall have a notification system so the user will be kept up to date with the new driving information

### 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 should be uniform and look constant
* The interface should be slightly different for the admin, since they will be able to edit information
* There should be a spot for a display of the user’s information
* A location where it says the online tests progress
* Area where the driving instructor can place notes about the student

### 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 user will be able to book lessons without the problem of over booking

### 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?*

* There might not be a lesson available to the user due to a limited number of drivers available

### 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