# CS 255 Business Requirements Document Template

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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 client is DriverPass
* To create a system that allows them to access data remotely

### 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?*

* Access their data from any computer or mobile device
* Provide online classes and tests for their customers

### 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?*

* Have user accounts with different levels of permissions
* Ability to make reservations through the system for each available package that is offered
* Able to add or remove offered packages
* Connected to the DMV so that offered information is kept up to date
* Web based
* Access records remotely from any device

## 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?*

* Web based
* Should run fast enough so that there is no large delay inbetween actions and transitions between screens
* Information should be updated at least every 5 minutes so that the records are consistently up to date

#### 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 able to run on any platform since it will be web based
* It will require a database to store the information

#### 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?*

* Distinguishing users by their username which can be case-sensitive
* The system should inform the admin any time changes are made to the records whether they are deleted or modified and by who

#### 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?*

* By having different functions that are able to access the database with each having a different purpose such as one for adding a new user, one for modifying their information and one to remove that user there should be no needed changes to the code
* The IT admin should be able to have full access to the database in order to make any needed changes to the data through set functions in 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?*

* For the user to log in they must first provide their username and password
* By having passthrough functions that accept limited inputs and prevents the client from being able to directly exchange data with the server it helps to keep the server secure from tampering
* After a set number of failed attempts at logging into an account the admin should be notified and the account temporarily locked
* There should be an option where a user can use a previously provided communication method attached to their account to verify their identity in order to recover/set a new 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 validate user credentials each time they log in.
* The system shall automatically update displayed information at regular intervals.
* The system shall be able to update the database with reservations as they’re made.
* The system shall provide an easy and organized interface where the provided online classes and practice tests are visible.
* The system shall allow users to modify data based on their accounts role (users can only change their own information while admins can access everything).

### 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 for browser users should match the layout provided by the client displaying all the important information on their progress and lessons, notes from the driver, etc. while the mobile version should still show the same information but without spreading it out as much so that it is easier to read on a smaller screen.

### 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 above design doesn’t include any room for additional services to be easily added.

### 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 limitations of this design would include time in the event that any of the tasks take longer than the scheduled amount of time listed.

### 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*