# 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

* This project is for our client DriverPass. They want to help more drivers pass their driving test by providing better driver training. They are going to provide online training and road tests which the driver would be able to keep track of online.

### System Background

* The DriverPass system will need to be able to be accessed from a computer or mobile device.
* There should be different rights and roles for the system user such as admin which would allow full access over all accounts to users that would be only able to schedule reservations, modify reservations, and resets customer's passwords. There will also be a role for maintaining the system.
* The admin will need to track who made reservations or who modified them last.
* The drivers and customers who have been assigned to the driver should be able to track.
* The system should list the different packages that DriverPass has.
* The admin should be able to disable packages that are not offered anymore.
* The system needs a way to get customers’ information and payment information.
* The system such be able to update DMV policies.
* The system also should be cloud-based.

### 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 be able to do the following:

**Admin:**

* Add and delete user.
* Track user activity.
* All access of all roles.

**IT:**

* Fix any bugs in the system.
* Update DMV policies.

**User:**

* Schedule reservations.
* Modify reservations.
* Delete reservations.
* Process payments.
* Assign drivers to customers.
* Reset passwords.

**Customer:**

* Create Profile.
* Request password reset.
* View test progress.
* Purchase DriverPass packages.
* Access online classes.

## 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 DriverPass system should be able to handle failures.
* The DriverPass system should be able to stay up to date automatically or manually.
* The DriverPass system should only take a couple of seconds to load.
* The DriverPass system should be web-based driven.
* The DriverPass system should warn users of update down time, with a 2 hr. wait 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?*

* The DriverPass system should be compatible with all web browsers.
* The DriverPass system should have a database.

#### 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?*

* The DriverPass User should have a password for their account.
* The passwords should be input case sensitive.
* The passwords should have a certain number of failed attempts.
* The DriverPass users should have different access levels.

#### 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?*

* System users such as administrators and IT should be able to add, remove, or modify user profiles.
* This should already be written in the code.

#### 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?*

* Users should use a username and password to log in.
* 2FA should be used to verify user identity.
* If the password is forgotten IT or Administrator should be able to reset it.
* Only a limited number of attempts should be allowed.

### 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.”*

* Mobile device access
* Desktop access
* DMV update alerts
* User profile modifications
* Appointment tracking
* 2FA
* Auto lock profile on too many failed password attempts.

### 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 UI should be accessed through the web or mobile device.
* User should be able to update profile.
* IT and admin should be the only one to modify others account.

### 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?*

* User have email.
* Dmv policy is kept up-to-date
* All mobile device can handle 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?*

* Needs an internet connection.
* Cost for servers
* Cost for maintenance

### 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