# 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?*

* DriverPass is a company that wants to help student drivers by giving them more resources and materials to better prepare for driving tests.
* They want an online system that they can use to coordinate and schedule appointments for driving sessions with their users.

### 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 wants this system to allow for managing, ordering, and scheduling of driver practice sessions, as well as provide their learning materials to their customers.
* They also want this system to properly manage users with various security roles, as well as keep their information up to date with DMV 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 should be web-based and run from the cloud.
* The system should display different product packages and allow for them to be disabled from an administrator
* The system administrators should receive notifications if the DMV publishes new information.
* The system should allow users or administrators to create appointments and schedule them with drivers.
* The system should allow users to enter in their personal information, as well as a way to contact them.
* The system should allow users to reset their password.
* The system should allow Administrators to have control over all users to disable them if needed

## 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 client requests that the system run as a web-based application in the cloud.
* The system should be updated as needed when any data is changed from the backend to user input.

#### 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 specific platform to be run on is not that important, as it will be run in the cloud using an automated system. The likely choice here will be Unix, however.
* The back end will need a database to store user credentials and packages, as well as transactional data.

#### 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 be given security roles to designate their individual privileges.
* Input for user information will be case-sensitive.
* The system should inform all users with the administrative role if any page is accessed by someone without the designated security role for that page.

#### 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?*

* User data may be changed without needing to change code. This includes adding, removing, or modifying users.
* The system will allow for IT administrators to make these changes at any time.

#### 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?*

* Any and all connections outside of the server will use HTTPS.
* Users will be required to have a username/email and a password of adequate strength.
* Users will be allowed 5 attempts to login to their account before they are locked out and must contact an admin for access.
* If a user forgets their password, they will need to contact an administrator to reset the password for them.

### 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 when logging in.
* The system shall allow users to modify their personal information
* The system shall allow users to view driving schedules and purchase packages.
* The system shall allow administrators to hide unavailable packages.
* The system shall allow administrators to reset user passwords and control user accounts.
* The system shall not allow more than 5 password attempts for users.

### 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 users will interact with the interface via web browser.
* The users will need to be able to view personal information as well as their personal driving schedule.
* The users will need to purchase packages from the interface.
* Administrative users will need to access package information and user information from the interface.

### 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?*

* We assume that users have access to modern web browsers.
* We assume that the system will be backed up by the cloud services.
* We assume that user accounts will be created/maintained by administrators.

### 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 system will be unable to have administrators manage package contents for sale on the site, beyond simple disabling them.

### 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.*

