# 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?*

* DrivePass wants to provide their users an all-around service to help prepare them to take the driving test(s)
* DrivePass wants to provide both online and in-person services to their users
* DrivePass wants their services available through desktop and mobile

### 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?*

* DrivePass wants to be available on the desktop AND mobile
* DrivePass wants the accessibility of the data have rules based on the roles the employee has
* DrivePass wants to be able to schedule, plan, and reserve in-person lessons

### 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?*

* Web-based so it can be accessible both desktop and mobile
* Materials for practicing driving tests be available online and offline
* Notification when DMV has new information
* Scheduling: planning, reserving, cancelling in-person lessons
* Security settings for data: Roles and responsibilities
* Admin be able to control security setting and block employees if needed
* Allow users to enter in personal information
* Allow users/employees to change password

## 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?*

* Users should be able to see any backend changes that impacts them
* The request is for a web app in the cloud

#### 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?*

* Web app is cloud based, therefore the platform has no importance
* The backend will require a database that holds various pieces of data such as user data, transactional data, inventory data, and any other data that needs to be stored

#### 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 assigned different roles that will give them different privilege levels
* Inputs will be case-sensitive
* Admins will be notified if users are accessing restricted objects outside of their role

#### 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 is controlled through the database – modifications such as changing roles, making users active, user information
* System will allow the admin to make these changes

#### 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 are allowed to attempt to login n times before the account is locked out to prevent brute-force attacks
* Users will have to enter their user name and password, along with two-factor authentication
* Users will need to contact the admin if they are locked out of their account
* Users password must be n length, and at least one of each: special character, uppercase, numeric

### 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 lock users out after n failed login attempts
* The system shall allow users to modify their personal information
* The system shall allow admins to make changes to user 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.)?*

* UI will prevent users from accessing the backend
* UI will add a layer of what they users can see and access
* UI will have different functionality available depending on user’s role

### 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?*

* Assumption – users have the most updated browser
* Assumption – users web browser is Chrome
* Assumption – admins to handle all user account setup and maintenance

### 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?*

* Budget – there is always a limitation on the budget

### 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.*

