# 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?*

* The client is DriverPass
* The purpose is to fill the need for better driver training
* Help customers that would often fail the driving test at the DMV
* Offer better driver and on the road training
* Offer online classes and practice tests
* Build a web/cloud-based system that will handle the aforementioned requests

### 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?*

* take advantage of a void in the market when it comes to training students for the driving test
* offer better driver training
* offer online classes and practice tests
* Offer the ability to set up driving appointments
* Continuously keep track of the cars and drivers
* Stay up to date with the DMV rules
* Allow users to log into their accounts
* Allow employees to log into their account
* Maintain all system and user information securely
* Feature to reset password
* Employees can set up appointments for 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?*

* Security - full security access to owner to reset password or block access for employees/guests
* Security – different security access to different employees depending on their roles
* Tracking - tracking changes that users make in system in a log file
* Tracking – live inventory of cars and drivers
* Maintainability – ability to disable packages and add packages in the future
* Functionality - be able to make reservations for driving lessons
* Functionality - cannot modify or update the data unless online
* Functionality - access data online from any computer or mobile device
* Functionality – receive an update alert whenever DMV updates their rules
* Functionality – system should run off the web, preferably over the cloud

## 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?*

* This system will run in a web/cloud environment
* This will run on various up-to-date phone browsers
* The system will be updated each month
* System response time of 5ms

#### 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 will run iOS and Android.
* The backend will require SQL to support this app

#### 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?*

* System will use unique usernames with passwords.
* The username and password will both be case sensitive
* The moment the system detects an anomaly, it should notify admins

#### 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 system will not need to change code to add/remove/modify
* The system will have code that incorporates the add/remove/modify
* The system will only have limited access while ongoing maintenance
* The admins, need access to reset password, schedule appointments and update catalogs

#### 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?*

* The user will need to enter email and password along with a security code sent to their mobile
* One way to secure the connection is to use SSL
* If there is a brute force attack, the system will notify the security team
* If multiple (3) consecutive unsuccessful logins are attempted, the IP will be blocked temporarily
* If a user forgets their password, they can enter their email address to get a link to reset it

### 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 logging in
* The system shall send a link to reset password if it is forgotten
* The system shall make and keep track of appointments
* The system shall keep inventory of the drivers and cars available
* The system shall keep up to date on new DMV rules

### 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.)?*

* Interface needs to be user-friendly, secure, and interactive
* The customers and the admins are the users
* Customer will be able to schedule appointments
* The admin will be able to update catalogs or schedule appointment
* The user will be able to interact with the interface via mobile and browser.

### 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 assumption that I am making is assuming that the login is valid
* Assuming that the customer and admin are on the latest browsers
* The assumption that their devices can run the application

### 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?*

* not having a developer or a system analyst for updates
* not having the budget to complete the project
* Falling behind the deadlines
* The team not having the skills to complete the project

### 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.*

