# 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 purpose of this project for our client DriverPass wants to provide better driver training.
* It will be provided to their customers as different options to help prepare them for taking drivers test at any DMV’s.

### 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?*

* The problem that they want to fix is that so many people fail the driving test before passing it. They want to help them prepare and pass on the first time.
* They also wish to offer online classes and practice tests to provide important information and test their clients knowledge before taking the test at the DMV.
* They also wish to offer on the road training to their customers as well.

### 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?*

* They want the system to provide the following functions:

-Creation of an account

-customers name, address, phone number, and credit card info

- customers pick up and drop off location

-Scheduling appointments on the website

- Choosing a training package

-Access to reset password if forgotten

* Other Functions:
* - allowing access to certain employees
* - track which user is matched up with the driver, time, and car
* - track reservations
* -allow the training packages to be removed
* -connect with the DMV to update with new information
  + Notifications for new updates

-Show the tests that customers have taken and their progress

-The test name, time taken, score, and status

-Show the drivers notes

-Lesson time, start and end hour, and the drivers comments

## 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 cloud environment
* The load time should be an average of 1-2 seconds per user
* The system should provide feedback for any load times over 3 seconds
* The update to the system should be once a month or when it is needed.

#### 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 run on computer and mobile browsers
  + Internet explorer
  + Google Chrome
  + Firefox
  + Safari
* The back end requires a database to store the system and user information.
* Back end requires a web server to mange and process requests and the responses

#### 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 system will distinguish between the users with separate login sections for the employees and the customers.
* The password for each person will be case sensitive
* The system informs admin of problems daily.

#### 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?*

* Changes to the user will be done in the back end and will not mess with the code
* The system shall adapt to any updates without issues
* IT admin needs the access to the database and web server to maintain and modify 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?*

* A password is required to login
* Two factor authentication as an extra layer of protection to secure the connect or data that is exchanged.
* The user only has five chances before being locked out
* The “Forgot Password” button will notify the admin to allow the user to change their 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 will validate the username and password when logging in
* The system will distinguish the type of user: customer or admin
* The system will allow users to reset the password if needed
* The system will only allow five login attempts before locking them out and notify the admin
* The system will create the account with the users information
* The system will allow access from anywhere
* The system will display the types of packages that the user can choose from
* The system will allow the user to choose the type of package to purchase
* The system will allow the admin to disable packages that are full or has been removed
* The system will track which customer is matched up to a certain driver, car, and time
* The system will connect to the DMV to be updated with new information
* The system will display the user information, status, and test progress.
* The system will display drivers comments
* The system will display the lesson time and the start and end hour.
* The system will display the photo’s of the drivers and the students
* The system will allow the users to access online learning tools

### 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.)?*

* Users will interact with the interface through browsers online on computers or other devices.
* Different users include customers and employees
* What customers should see and be able to access:
  + - Login/register
    - Home page
    - Test progress and score
    - If they passed or failed the tests
    - User information and ability to update
    - Driver’s comments, lesson dates and times
    - Package information
    - Online learning tools
    - Contact information page
* What admin should see and be able to access:
  + - Information of users who registered
    - The packages that have been selected and by who
    - Ability to remove full packages
    - Which users and drivers are matched up, times, and dates.
    - Ability to allow users to change password

### 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?*

* All users have 24/7 access online
* All users will understand the website and how to navigate it
* Admins have the ability to navigate and access to the website functions
* Users will be on time and show up for their lessons in the chosen package
* Drivers will be available and show up to all the driving lessons

### 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?*

* DriverPass has 10 cars, each car needs to be maintained to be able to use
* Issues with internet connection may arise and cause delays to information needing to be updated
* Only a limited number of user can purchase packages with the limited number of cars
* Users may not have updated technology
* Meeting all the requirements of the driverpass within their timeframe and budget
* The user may only have experience with certain vehicles.

### 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 white grid with orange and purple squares

Description automatically generated with medium confidence*