# 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?*

* Liam, the owner of DriverPass wants to build system to provide better training for students to take their tests at their local DMV.

### 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 will fill in the gaps for better training drivers
* Students should be able to take online classes and practice tests to prepare
* On-the-road training if desired

### 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?*

* Access data online from any computer or mobile device
* Ability to download reports and some information using Excel
* Able to reset passwords or block access to people that no longer need it
* User can create an account
  + Should include name, address, phone number, and credit card information
* Schedule appointments online
  + Include who made the reservation, who canceled it, who modified it last.
* Print activity report
* Make reservations for driving lessons
  + 2 hour lessons, date and time.
* Identify the driver the customer is scheduled to go with, car that is reserved, and time
* Ability to choose from a package
  + Package one: Six hours in a car with a trainer
  + Package two: Eight hours in a car with a trainer and in-person lesson where DMV rules and policies are explained
  + Package three: Twelves hours in a car with a trainer, an in-person lesson where DMV rules and policies are explained, and access to online class with all the content material and a practice test.
* Customizable packages and/or able to disable a package
* Connection and notifications from the DMV whenever updates are made to rules and policies
* Cloud based storage

## 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
* Load times for users should average 1-2 seconds
* System should provide feedback for load times over 3 seconds
* System updates should be once a month or as 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?*

* System should run on computer and mobile browsers (Edge, Google Chrome, Firefox, Safari)
* Back-end requires a database to store user and system information
* Back-end requires a web server to process and manage requests and 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?*

* System will distinguish between users with separate login sections for customers and employees
* Password for each user will be case-sensitive
* System informs admin of any 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 change code
* System should adapt to any platform updates
* IT admin needs 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 for users to login
* Two factor authentication for an extra layer of protection
* User will be locked out after 5 wrong login attempts
* “Forgot Password” button to notify admin to allow user to reset 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.”*

* Validate Username and Password when logging in
* Distinguish the type of user: customer or admin
* Allow users to reset password if needed
* Allow 5 login attempts before locking user
* Create user account with user information
* Allow access from anywhere online
* Display types of packages for customers to choose from
* Allow customers to select a type of package to purchase
* Allow admin to disable packages that are full
* Track which user is matched up with a certain driver, time, and car
* Connect with DMV to be updated with new information as it is available
* Display customer information, test progress, and status
* Display driver’s notes
* Display lesson time, start hour, end hour
* Display driver and student photo’s
* Allow customers access to 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/admins
* Customers should be able to see  
   Login/register page
  + Home page
  + Test progress and score
  + Passed or fail tests
  + User information and ability to update
  + Driver notes, lesson dates, and times
  + Package information
  + Online learning tools
  + Contact information page
* Admins should be able to see
  + Registered customers information
  + Which packages have been selected and by who
  + Ability to remove packages that are full
  + Customers and drivers that are matched up, dates, and times
  + Ability to allow users to reset their 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?*

* Users have online access
* Users will understand how to navigate website
* Admins have necessary skills to navigate and access all website functions
* Customers will be on time and show up for every lesson in their package chosen
* Drivers will be available and make it to assigned driving lesson

### 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 and be ready for use
* Issues with internet connection may cause delays with information being updated
* Limited number of packages limits number of consumers
* DriverPass may be out of budget for some individuals
* Customers may have no on-hands experience with vehicles

### Gantt Chart

A close-up of a list

AI-generated content may be incorrect.