# 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, they want a cloud based application they can use to schedule customers and run reports, and schedule lessons.
* The purpose of this project is do design a system to complete the previous statement.

### 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?*

* They want an interface they can access from any device, a backend and authentication, with user management, a package section with the ability to update and delete packages, as well as run reports and collect feeback.

### 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 customers should be able to log in an take classes.
* The customer should be able to sign up for on the road lessons.
* The customer should be able request a password reset.
* The owner should be able to run reports
* The owner should be able to access the app from any device with an internet connection.
* The owner should be able to terminate a customer.
* The owner should be able to remove a package.

## 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 system should be updated in real time using sockets
* The system should allow concurrent users
* The system will run on any device with a web browser or installed as an SPA
* The system should be able to retrieve updates from the DMV

#### 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 in the cloud and be available on any device with a browser or that can install an SPA
* The system will have a modern backend that supports API calls so it can be accessed from any client

#### 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 users based on their information given first name last name phone number we will hash that and map it to the log in password since there is no mention of email address.

#### 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?*

* It admin will have full access to reset user passwords
* It admin will need to have the ability to add/remove packages

#### 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 must enter their full name and phone number and password to log in
* We can secure the data exchange by using https
* The server will use HTTPS encryption for client-server communication
* If a user forgets their password they will send a password change request since no email is mentioned in the interview

### 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 enable customers to take practice test and online classes
* The system shall enable customers to make reservations for in person lessons
* The system shall enable customers to cancel appointments
* The system shall provide a report
* The system shall have the ability to connect on any device that supports web technologies
* The system shall give the IT manager access to update and change passwords
* The system shall allow drivers to add notes
* The system shall display customers 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.)?*

* The customer shall have access to online registration
* The customer shall have secure login and automatic timed logout after inactivity
* The customer shall have the ability to take online classes
* The Secretary will have the ability to register new customers
* The instructor will have the ability to add notes
* The It manager will have the ability to reset passwords
* The It manager will have the ability to remove packages
* The owner will have the ability to run reports

### 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?*

* Customers will have access to a networked device

### 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?*

* I don’t see limitations, as in the book stated relax constraints.
* There will be no offline support

### 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.*

[Insert chart] A screenshot of a calendar

AI-generated content may be incorrect.