# 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 is the client who sees a void in the market
* The goal is a system that helps people with training for their driving tests

### 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 is people are failing driving tests
* They want to add in online classes and practice quizzes to help people pass
* DriverPass wants to offer live training along with the classes and quizzes

### 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?*

* Tracking of the user’s progress and completed tasks as well as someone in IT being able to download the data
* User registration system
* Create reservations with specific drivers and modify or cancel them if needed
* a preset list of choices for the packages with the ability to disable a package option
* Auto password reset system
* A way to notify all parties involved of the pickup and drop off locations

## 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 system using the cloud
* Fast response time since the customers interactive online lessons
* The system needs to be updated at least any time there is a major change to the packages or DMV material

#### 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?*

* Needs to be compatible with multiple web browsers along with Android or iOS
* They wish to use a cloud service to help provide the tools needed to run the backend/database

#### 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?*

* Differing login portals for customers and employees with role for the admin under the employee portal
* Passwords should be case sensitive
* Problems should be reported immediately to the department that can correct it and there should be daily to several times a day updates for lead 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?*

* IT admin needs full access to the backend of the cloud system as that will be the only way they can make the needed changes
* The cloud system chosen should have ways to change things without altering the full code so long as everything was made modular in the first place

#### 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?*

* User should be locked out after 3-5 wrong attempts and prompted to reset their password using the email associated with the account or directed to IT
* 2 factor authentication when logging in or making big changes
* If an account is flagged for hacking it should be locked down and investigated by an admin

### 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 allow accounts to be created that are associated with one user
* The system shall validate user credentials at login
* The system shall tell the difference between user, employee, and administrator
* The system shall allow password resets
* The system shall display and allow users to pick from different packages
* The system shall be connected to the DMV to allow updates to the information
* The system shall allow administrators to access and download data
* The system shall match drivers with students based on availability and chosen packages
* The system shall display online lessons and tests
* The system shall track and display the driving lesson start and finish times and locations

### 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.)?*

* Login/Register portal
* Home page
* User Profile page with setting options?
* User progress page
* Lesson and test pages
* Package option/purchase portal
* Driver feedback
* Contact information page

### 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?*

* That the user has 24/7 access to the portal and good web connection
* The user has previous experience using online systems
* That customer and driver will be on time to their appointments
* That the admins are trained to handle anything that goes wrong
* That the host will not go down
* People will always cancel way ahead of time

### 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?*

* The lesson cars need to be maintained
* There is a limited number of cars and teachers
* The user may have internet issues
* Users need to keep their technology updated so it works with the current software

### 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 screenshot of a project management

AI-generated content may be incorrect.