# CS 255 Business Requirements Document

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?*

* This project is for DriverPass, a company that provides training to obtain Driver Licenses, that is aiming to take advantage of a hole in the current market. Clients can sign up for in-person training and conduct online training through the system.

### 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 system must allow users to sign up for and take training classes while creating accounts and resetting passwords over the internet.
* The system will have an admin side that varies the views and abilities according to access level.
* The system will be hosted off-site and will require minimal technical upkeep on the client’s side.
  + A third-party will need to be identified to securely host the data and system in compliance with pertaining regulations.

### 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 system will have the following abilities:
  + Admins can export data.
  + Super Admins can see activity/history reports on appointments.
  + Admins have different access levels.
  + Users can make/modify/cancel appointments.
  + Users can create accounts and automatically reset passwords.
  + Admins can close/disable training programs.

## 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?*

* Platform will run on the web.
* Excluding any bug resolutions, system will be updated when DMV changes information/regulations.
* Multiple users can use the system concurrently.

#### 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 will run on a cloud platform with minimal technical involvement from DriverPass.
* Database to hold appointments, package information, and user info.
  + Ensure database records can only be accessed one a time to prevent data overlap.

#### 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?*

* Password input is case-sensitive.
* When storing user information, a designation of their access role will also be present.
  + Thus, logging in checks according access role level and displays the appropriate display screen.
* If system downtime is more than 3 minutes, an email should be sent to 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?*

* Users can sign up for appointments and admins can modify appointments.
* Admins can create users.
* IT admin can disable packages.
* Connect to the DMV to ensure that all regulatory information is up-to-date.
* IT admin requires little access as they do not want a platform with a lot of technical upkeep.
* IT admin has ability to reset passwords or restrict other admin access.

#### 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 needs to input password for login.
* After a number of failed login attempts, system adds a timer before another attempt can be attempted.
  + Possibly limits attempts by IP address or user name.
* Two factor authentication for log ins.
* Advanced encryption to protect user information/credit card info.
* System should hold appointments while a user is registering to prevent double booking.

### 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.”*

* Admins can generate activity reports for appointments.
* System can export data into an excel file.
* System rejects improper data for fields (ie no letters in credit card number field).
* Drivers can add lesson feedback.
* System generates automatic password reset email and process.

### 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.)?*

* Each user type will have a different display.
  + Admin and IT admin will have similar displays but IT will see more functionality options.
* User types:
  + Basic User
  + Driver
  + Admin
  + IT admin
* Users can update passwords, complete online classes, and sign up/cancel for appointments.
* Drivers can input lesson feedback.
* Admins can create users/drivers and sign up users for appointments.
* IT admin can modify users and export activity reports and data in excel form.

### 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 access to the internet.
* Users can hear the audio from the online lessons.
* Users will remember their appointment times.

### 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?*

* System cannot grade written questions.
* System cannot add or modify modules without developer involvement.

### 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

AI-generated content may be incorrect.