# 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, DriverPass, would like us to develop an online space for individuals to further develop skills for driver training.
* They would like their system to allow clients to have access to study material, online classes, practice tests, and scheduling of on-the-road training.

### 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 owners of DriverPass see a problem with individuals failing their driving tests at the DMV, and they believe the solution to this problem is to provide better thorough driver training courses.
* The business plan has options for 3 different training packages offering personal instruction in a vehicle, lessons going over DMV rules and policies, and full access to online classes and practice exams.
* DriverPass would like the material to be available online and have an option to download the material to store offline.
* They would also like to be linked with the DMV to have active updates on any rule or policy changes.
* They would prefer that the information be run through a cloud server, so they do not have to worry about backup and security.

### 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?*

* When completed, this system will be able to receive updates from the DMV for materials for future drivers.
* The system should allow management personnel to add new administrators, remove prior administrators, reset passwords for administrators, add new training packages, delete old training packages, and track reservations (booking, cancelling, etc.) to see reports of activity.
* The system should allow administrators to make reservations, assist with purchasing of a package, obtain and document personal information from the customer for registration, track the current schedule or calendar to assist customers setting appointments, and receive notifications from the DMV of any updates that have been provided.
* The system should allow customers to go online and purchase packages, provide their profile information (full name, address, phone number, state, and credit card information), access course material and practice exams, schedule, modify, or cancel on-the-road lessons, and set their pickup and drop off locations.
* The customer also can automatically reset their passwords if they forget so they can schedule appointments online.

## 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 will be web-based to allow the users access to their accounts from any location.
* The system should run quick enough to send and receive information from any user along with the users taking practice exams and viewing videos through the website.
* The system needs to be updated at least weekly if not more often to prevent bugs or breaches, and to accommodate any changes to rules 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 should run on any internet browser platform whether on a desktop, laptop, tablet, or smartphone.
* If the system is accessed on a tablet or smartphone, then the system should be resized to fit the screen.
* The backend will need a database to store the user’s information, test scores, etc.

#### 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?*

* Users will have their own email and password to login to their account.
* The system will check to make sure there are no duplicate usernames.
* Case sensitivity on inputs will be necessary to help with security measures.
* Admin should be notified of problems with logging in if a user has too many incorrect attempts.

#### 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?*

* Yes, admin will be able to make changes to the user by adding, removing, or modifying their account.
* Admin will also be able to add, remove, or modify any modules that are new, old, or need to be changed.
* IT admin will need access to make updates and correct any possible issues with the site.

#### 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 is required to enter their username and password (Case Sensitive) to gain access to the site.
* Brute force hacking is prevented by having a limited number of login attempts before locking the user out of the account until admin resets the password.
* If the user forgets their password, they will have the ability to reset their password through their email.

### 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 validate user credentials when logging in.
* The system shall allow a user to reset their password if they have forgotten theirs.
* The system shall allow a user to access information to study and practice for their driving exams.
* The system shall allow the ability to schedule in person appointments.
* The system shall be kept up with current DMV rules and regulations.
* The system shall have the ability to take payments through the site.

### 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 users for the interface are Owner, admin, It, and the end user.
* The owner will have full access to all accounts to gain control of certain accounts if employees leave or are let go. The owner will also have the normal functions of the admin side.
* Admin should have the ability to access a user’s account to assist with scheduling or any questions about the materials.
* IT should have access to all functions of the site besides personnel information.
* The end user should have access to their account and the study information along with the ability to schedule their in-person appointments.

### 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?*

* We can assume access to the system will stay open 24/7 except for downtime to update.
* We can assume that the end user will be someone studying for their drivers’ exams.
* We assume that the rules and regulations will be provided by the DMV in a timely manner.
* We can assume that the system can be read in multiple languages.

### 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 system will require stable internet to hold connection to the site.
* The timeline of January 22 to May 10 is a limitation that will be considered when billing the project.
* Scheduling accuracy to ensure that a student is not overbooked with limited vehicles and instructors.
* To have any other resources or information that is needed to complete the project, we will need a time to review the project with the clients to check off our design and development and make changes as needed.

### 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.*

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