# 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?*

* We will be working with DriverPass to develop a cloud-based web page for their company to help train students to pass their driver’s test.
* They want their system to be able to take information from customers to be able to set appointments based on the number of vehicles and trainers they have available.
* Their system will need to create and store account information for all clients to store personal and class-related information.
* Liam, the owner of DrivePass wants full access to all accounts to be able to reset passwords and delete accounts.

### 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 the system to request and store client information.
* They want clients and secretary to be able to set and cancel appointments.
* They are wanting to fix the problem of under-prepared driver trainees by providing them with online classes and practice tests along with om-the-road training.
* They will need a scheduling system.
* They will also need to be connected to the DMV to provide current drive training education and practice tests.
* They will need a section for driver’s notes from driving trainers to the specific student’s account.
* They want to display three detailed training packages that they can remove when the offer is over.

### 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 should meet the design requirements set by the owner of DrivePass.
* The system should allow customers and secretaries to set and cancel appointments.
* The interface should be self-secured, so the client does not have to worry and manage the system security.
* We will need to create the class diagram and user interface design before seeking customer approval.
* After that is approved, we will complete the interface and then build the business logic before testing and delivering the product.

## 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?*

* It should be run on a web-based program that allows access to anyone wanting to register for the class.
* The system should not take longer than 10 seconds to load each page.
* The system should be updated frequently to remain up to date with current state driving rules and current availability of drive times.

#### 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 web-based page will run on a cloud operating system.
* The backend will need to relate to the DMV to share DMV requirements to keep education up to date.

#### 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 need to be able to differentiate admin from customers. Admin will be given access across all users and customers should be able to see this information.
* The system should notify the admins of a problem as soon as possible.

#### 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?*

* Any admin will be able to change user information and reset passwords without the need to change code.
* The system should be updated regularly through the cloud and from the DMV database. This should make updates easy and regular without much visual change to the system.
* The IT admin should be given more access to the system to allow for modification and regular maintenance.

#### 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?*

* Customer log ins are going to require their first name, last name, address, phone number, state, and their credit card information.
* After login is created a password and username will be created and this can differentiate the customers and the admins.
* The customer will be able to reset their password if they forget it.
* If someone is attempting to hack into an account, the admin will be notified and be able to lock and delete the account.

### 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 keep up to date information with DMV.
* The system shall allow users to make reservations for drive times.
* The system shall accept payments from customers for packages or individual drive times.

### 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.)?*

* There will need to be two different interfaces, one for the customers and one for the admin.
* The customers will be able to login, sign up for drive times, pay for classes, and take practice tests.
* The admin will be able to reset passwords, maintain and modify the system.

### 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?*

* The user has an acceptable card for the payment of classes and drive times.
* All users will have access to the internet to access the system.
* There will be electricity to power the system at the location.

### 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 stop if there is no power.
* The system will only be able to make reservations based on the 10 cars and 10 drivers available for scheduling.
* The system will offer packages that are only available for a certain amount of time

### 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 picture containing text, screenshot, square, diagram

Description automatically generated