# 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 purpose of this project is to create a system for DriverPass that allows them to provide better training for people who are learning to drive.

### 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?*

* DriverPass wants to provide online classes and practice tests as well as offer in person training if the customer requests it. They want to fix the fact that so many people fail their drivers test at the DMV. The different components will include online and offline capabilities, make reservations for driving lessons, modify reservations, different access abilities for different employees, and report generation.

### 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 allow the user to make reservation by choosing the time and date they wish for lessons through their own account.
* The system should allow the user to choose from 3 different packages for their training.
* The system should have different levels of access to the program. These different levels can include admin, IT, and students. Each level provides different access to functions of the system.

## 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?*

* Updates to the system should occur often. Often updates allow any issues and security risks are being fixed quickly.
* Any changes to the DMV guidelines will need to be updated often to keep students informed.
* The system will be web-based.
* System speeds need to be fairly quick because students will be taking exams on the system as well as the use of the system for back and forth requests on the server that will be occurring.

#### 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?*

* Ability to work on many different browsers such as chrome and edge.
* Resize and fit the application to the screen when the user is on a mobile device.
* Requires database usages to store any data from the system.

#### 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 are distinguished by use of email and password.
* Case sensitivity will be used in passwords to protect users from account breaches
* Alert admin when a user tries to input their password wrong a set number of times/

#### 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?*

* System has the ability to add, delete, or change user information withing modifying the code of the system.
* Platform updates will be done by requests by programmers.
* IT admin will have full access to the system including the user accounts, passwords, and employee information. This allows them to help and make changes where necessary.

#### 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?*

* All users will log in using their unique email and password.
* HTTP ensures that data being shared between the client side and the server side is secure.
* In the event of a brute force hacking attempt admin will be notified of too many attempts on a single account. After a set number of failed attempts login will be not available for the user and the admin will be alerted.
* Forgetting the password requires the user to request to reset their password. A link to resetting the password will be sent to the users' 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 confirm the selection of one of the three packages
* The system shall confirm the users details: Name (first and last), address, payment information, and contact information.
* The system shall be available in an online platform only with the exception of study materials that will be able to be accessed offline.
* The system shall differentiate the user that has logged in as either an admin or a student.
* The system shall display the three types of packages the student can choose from.
* The system shall allow packages to be disabled if it is unavailable.
* The system shall allow users to request a password reset.
* The system shall display student progress and scores for exams.
* The system shall confirm the attempted login information to ensure access permissions.
* The system shall make change when there are any changes to DMV requirements.

### 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.)?*

* User: Home page
* User: Exam Information
* User: Score access
* User information
* User: Registration page for new users
* User: Exam status
* User: Any feedback left by instructors
* User: Contact information
* Administration: delete, add, or modify information

### 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?*

* Available at all times
* User is a student of the DMV
* System will be up to date in regards to DMV guidelines
* App version available in the future

### 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?*

* Requires an internet connection to be accessed.
* Time and strict budget of the client
* Materials and exams need to be based on the guidelines set by the DMV.
* Only 10 cars are available. Making scheduling very tight and needs to be accurate at all times.

### 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 computer

Description automatically generated