# 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?*

* To create an efficient and user-friendly solution to enhance their business’s operations and improve productivity. The system will streamline process as well as provide its necessary functions and support different users with their respective role. The client is any driver who needs help passing their driving exam at the DMV. They want their system to do all the above to fill the blank market of proving driving lessons for students wanting to learn.

### 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 a system that will provide online and offline teachings for drivers. The problem this would cause would be with saved data since when offline they would have no way to update save information and work progress. The different components needed for this system would be a cloud system that has offline capabilities.

### 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 this system is completed it should be able to allow students to take tests online that provide a progress tracker and show what has been completed and need to be completed.
* Should allow users too choose a package with the ability to cancel said package that Is already chosen
* Should have a way for driver’s too leave notes on the clients performance and leave a comment that may help the user in the future. Also a way to record the time taken on tests and lessons.
* A way to track what driver is matched with what user for in person driving lessons and a what time this appointment is happening as well as the vehicle being used. The car will be tracked.
* Should have a way for users to access information while online as well as offline.

## 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?*

Nonfunctional requirements of the driverpass system would be that it needs to be web-based , function properly where users can have a good experience while using the system, and updates rolled out consistently to prevent any security breaches from happening as well as preventing bugs and errors form happening that would reduce the users experience. The systemwould also need to comply with DMV standards.

#### 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 be compatible with the users technology such as windows10 or their browser of chrome, firfefox, etc.
* System should function on desktop devices as well as mobile devices
* System will need a database for user information so that users can log on and off their profile as well as a database for driving information for users too access and get the necessary materials for their driving lessons.

#### 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 distinguish between different users with their login information and with users having student privileges and with driverpass faculty having admin privileges. Inputs will be case-sensitive. The system will inform an admin of any problem that is out of the users hands such as bugs or security breaches.

#### 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?*

* The system will allow users to create a profile as well as modify their profile. Admins will be able to remove profiles.
* IT and faculty will have access to admin privileges to make necessary changes within the system when an update is needed or problems arise.

#### 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?*

* Users will need the necessary username and password too log in to their account.
* Website will use HTTP to provide security when exchanging data between the server and clients
* Admins will be alerted when hackers attempt too hack the system.
* Users will be able to reset their password but will have to through their email to prevent another user from changing someone elses password
* Accounts will be locked after multiple failed login attempts

### 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 be available online with other materials being available online and offline
* The system shall allow users to choose a package and confirm their choice
* System shall have confirmation for consumer details such as name or payment information
* The system shall confirm user logins
* The system shall allow users to disable their packages
* The system shall disable unavailable packages
* The system shall prevent users from logging in after multiple failed attempts
* The system shall allow for resetting passwords
* The system shall show exam and work progress as well as scores for completed exams and work
* The system shall confirm login information before accessing sensitive account information
* The system shall be updated to the DMV standards
* The system shall allow users with administrative access to access administrative only data.

### 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 interface will need a home page, exam page, assignment page, grade page, user information page, registration page, and password reset page for users. The user should be able to see the status of exams and assignments, notes left by their instructors as well as contact information for said instructor. Admins should see a admin page where they have administrative capabilities.

### 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?*

* Assumptions I have made with my design above is that you can access this system 24/7 as well as access it offline at any time. I am also assuming that users will be taking these courses and exams to prepare them for their driving exam at the DMV. I am also assuming that the DMV will provide information whenever there is changes within their requirements. I am also assuming that this system will function on mobile devices.

### 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 internet access too get online and access certain materials.
* The system will require a device that is capable of running a internet browser

### 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 graph with red squares

Description automatically generated