# 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?*

* DriverPass would like a system created that will allow people to practice for a driver’s test written exams
* DriverPass would like to create a system that allows scheduling of road practices.

### 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 would like the system to be able to take online classes, practice written tests, and schedule drive times for more practice.
* They are looking to bridge the gap in assisting more students in getting their driver’s license.

### 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 many milestones that can be track once it is completed. A couple huge milestones will be to see the online courses they have taken and how they have done on their practice tests.
* Driving times will also be calculated to ensure that the users get enough drive time before their actual driver’s test.

## 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?*

* This system will be entirely web-based so people can have access to it almost everywhere.
* The web-based functions should allow it to run fast because it will have online classes and practice tests so stability will also be key in its construction.
* Backing up information should be a daily thing, so users and teachers are always up to date on what the users have accomplished.

#### 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 application should be able to run on any operating system since it will be a web-based application.
* The client would like it to be all cloud based so everything will be supported online within the cloud reducing the need for almost anything physical.

#### 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 to create profiles and have distinct usernames and passwords that are linked to just them.
* Everything should be case-sensitive since it is dealing with actual people and their names.
* Admins will be notified when someone purchases and package or if there is a request to change password because it was forgotten.

#### 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 ability to change user information will be left to that exact user and the admins that run the program.
* There will be no need to change the code if it is put in when the system is created. The IT team will need to have full access incase web browser update certain features that may affect the application.
* This will allow the team to change the application to work better on an updated browser.

#### 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 user accounts will need a username and password that is created when they create their account.
* By going through a verification step you can ensure that the data will be secure to send out to the user’s computer and vice versa.
* In the attempt of hacking all account should be locked down and a back up of all user data should be downloaded onto the admins computer and all connections severed after the download is complete.
* If a user forgets their password, they must request a temporary one after verification from the admin team.

### 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 each user when logging in
* The system shall lock accounts after 4 failed attempts to log in
* The system shall send a verification code to user to confirm login
* The system shall update the admin team about any DMV law changes
* The system shall send temporary passwords after verification
* The system shall track all open and taken 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.)?*

* The user interface should display that user’s personal information and allow them to update if need be.
* There should be a photo of the student and their driver to ensure they are meeting the correct people.
* The UI should show them online progressions through courses and tests. The UI will also display any notes the drivers may have for the students.
* Students must also be able to schedule new drive times and take tests through the UI.

### 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 are assuming that students have online access and a working email for them to use.
* Assuming the students will have the needs to comprehend the information in a digital format.

### 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 creation of the application must happen within 15 weeks from the start.
* There is no ability to predict changes that the browsers or the DMV will have which can cause issues will keeping information up to date.

### 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.*

Chart, waterfall chart

Description automatically generated