# 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?*

* This project is for the company DriverPass. A company that is looking to improve the student driving experience. They look to provide a better way of learning by offing online practice testing, training, along with the abilities to schedule in person driving lessons. DriverPass would like users to schedule appointments along with moving and cancelling appointments.

### 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 to fix student drivers failing their drivers test by giving them more resources available to prepare. Students tend to fail tests because they can only study old tests. DriverPass looks to give practice tests and a better way of practicing. The Three main aspects, in terms how users will interact with the app, is that they will have the ability to study for tests and take practice tests. Schedule driving sections with driving teachers that will last 2-hour increments. Just a date and time will be needed.

### 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?*

* Future users should be able to call into the secretary to have an account created. The student would provide their first and last name, address, phone number, credit card, security code, and student pickup and drop off locations. The student should be able to select one of three class packages. This would allow the student to schedule a time for in person training. Students also need to be able to reset their password if forgotten. From an administrative standpoint the secretary should be able to enter student information along with schedule and cancelling driving sections.
  + The administrators should be able to track student data such as who the student is scheduled to learn from and which car, they will be in. The admin should also reset user passwords and block users if need be. They need to be able to see who scheduled an appointment and why canceled the appointment and last modified.

## 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 application is to be a web-based application running in the cloud to have less maintenance and less downtime. The system should be easily updated as to adhere to the latest policy and procedures of the DMV. DriverPass should be notified with any changes so they can adjust their teachings.

#### 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 windows and mobile devices. There should also be ability to have downloadable databases to view offline using excel spreadsheets.

#### 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?*

* Management and IT officer should have the ability to view student data, reset passwords, add users, edit users, and block users.
* Secretary should have ability to add new users, edit users, schedule, and manipulate appointments, and reset passwords.
* Students should be able to reset passwords, schedule and manipulate appointments.

#### 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 IT admin should be able to add/modify/remove users without changing code. The feature would be coded in, and access would be given a Boolean value that allows it. The value would be changed by the Boss. Other changes would be the visibility of the packages available. They wouldn’t be able to add new packages just yet but they can hide a package that isn’t wanted.

#### 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?*

* To login to an account first the account should have been created by the boss for the employees and the students account can be created by and employee. Designed method should be to student calls in and the secretary will create the account. Student will log in with username and password with the ability to reset password if forgotten. Username and password should be encrypted while being sent for validation. A max number of log in attempts should be implemented that would then lock account until password can be reset or admin and unblock 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 lock account if too many failed attempts
* The system shall encrypt username and password while being sent for validation
* The system shall notify IT if any log ins seem unusual, like logging in from a weird location.

### 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.)?*

* Boss/IT officer – allow full control over all users and accounts with the ability to remove/block accounts
* Secretary – allow to add new users and reset passwords
* Students - allow user to reset passwords, schedule appointments, access online practice tests and online classes.

### 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?*

* Users will have internet access because system will be handled online.
* Users will have unlimited internet data plans
* Systems will be strong enough to handle all users at one time

### 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?*

* Expanding of class packages.
* Processing power will be handled by DrivePass with cloud computing
* Large amounts of data storage required

### 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

Description automatically generated with medium confidence