# 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 client, DriverPass, would like their project to be able to bridge the gap when it comes to kids passing their drivers test at the DMV. They want their system to be there to support drivers and give them resources, such as an online course and practice tests, so that they pass the test when it is time to take it at the DMV.

### 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 their system to be set up to allow online customers to set appointments at specific times of the day with specific drivers, the car they are in, and the time they are supposed to have their lesson. If need be, it should be able to print reports detailing who scheduled the teen driver. The problem they want to fix is the need for better driver training. They believe they can create a program that will produce better drivers with DriverPass so drivers don’t fail at the dmv/

### 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 be able to hold reservations made by the client(drivers) themselves while also the scheduled appointments made by the secretary. The online site will allow the driver to see their online test progress, their personal information, their driver for their current appointment, notes left by their instructor from their last appointment, and the time it started and ended. The system should also be able to stay up to date with the real DMV site whenever they make changes to their system. The website will tell a driver the status of their of their tests and their scores whether it is in progress, failed, or passed.

## 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 DriverPass system needs to run in a web-based environment, through a cloud, to perform its necessary functions. The system needs to run fast enough to handle thousands of customers and administrators on the website making appointments and handling business. The system should be updated every time there is an update to the DMV website regarding the driving regulations. DriverPass needs to make sure it is displaying the most accurate information to its clients.

#### 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 needs to be able to run on the most popular platforms such as Microsoft and Apple. The back end needs to make sure that the cloud can hold the required amount of space to make sure the system runs efficiently. Also, the security of the system needs to be well maintained since there will be pertinent information that the neither the client or the company wants to get hacked, such as driver information.

#### 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?*

* To distinguish between different users, every client needs to make their own unique username and case sensitive password. With this in use, no tow clients will be able to have the same username making it harder for information to get mixed or leaked. With a case sensitive password, accounts getting hacked will be more difficult and it will make everything more secure. The system should inform the admin of a problem when an account has become compromised or if there has been too many attempts trying to access one account. At that moment, the admin will be able to reach out to the client to make sure there is no chance of information being leaked or a lost account.

#### 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?*

* Only administrators will have the ability to go in and modify user accounts so if something is done, it can be traced back easily. Every time there is a system update, the code will not change, it will just be added on to the existing code, so there is consistency with the entire layout of the system. The IT admin needs to be able to access every part of the system to make sure everything Is performing up to par.

#### 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?*

* For the user to log in, they must have their own unique username and password. To secure the data exchange between the client and the server, the system will run over the cloud giving it less accessibility to be hacked. If the account happens to have a “brute force” hacking, the admin will recover their page by locking it and changing the password for the client. If a user forgets their password, they will have the chance to retrieve it by emailing the admin and answering a few security questions.

### 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 running over the web and accessible to laptop and desktop computers.
* The system shall give each user, including admins, a unique username and password.
* The system shall keep up to date with the current DMV regulations.
* The system shall organize scheduling for students for their driving lessons by the time of their lesson, the time it actually started and ended, and the comments the trainer left (if any).
* The system shall have a place for student driver information that includes their name, address, phone number, and email.
* The system shall include the online test progress of the student.
* The system shall contain practice tests to help students study for their written driving tests.
* The system shall contain trainer notes on the previous rides, so the driver has a progress report.
* The system shall update and expand as the clientele gets larger.
* The system shall add/delete/update customer accounts as needed.
* The system shall work online and offline for admins and product owner to remain a continuous upkeep on the system.
* The system should include photos of both driver and student for easy distinctions when it is time to drive.
* The system shall have a user-friendly layout to make the use of the system very fluid.

### 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 needs of the interface would be for the all the users to be differentiated against. The different users of the interface would be the project manager, the admins, the drivers, and the driver’s trainers. The admins and the project manager need to be able to log on and make and make any necessary changes to the system when it calls for it, such as updates. They will also need to be able to access the driver’s accounts just in case something goes wrong, and the driver gets locked out or no longer needs their account and it must be deleted. The user will only be using the system over the web now, until there is an update down the line that expands 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?*

* Some assumptions that are being made with this design is that this is for people who need extra help on the road trying to get their license, when that might not be the case. Also, I assume that the clientele will be able to afford each of the packages offered and included in it will be all the necessary tools to help them pass the driving test.

### 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?*

* Some limitations that might arise in this system design is the fact that it is only web based. With the growing mobile technology in the world, it might become inconvenient to the clients to only be able to access their accounts from a computer. If they included a mobile version, such as an app in the future, then it will appeal to a larger clientele that might not own a computer. Another limitation will be the timeframe of the project, which is roughly five months, with no indicated budget.

### 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.*

Table

Description automatically generated