# 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 is a company called DriverPass
* They want to take advantage of the gap in the market for training students to pass their driving test at their respected DMV (or MVD)
* They want to provide online classes, practice tests, and on-the-road training (if the student so wishes)
* They need help building a system that can handle all of the

### 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 provide online classes, practice tests, and on-the-road training (if the student so wishes)
* Track users if they made a change
* Customer should be able to make reservations: Time and date.
* Customer can make reservation: Online or by calling in
* Identify drive the customer is assigned to
* Choose between different packages

### 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?*

* Access information from anywhere online and/or offline
* Be able to download reports and some information so that they can do work at home
* Different users at company have rights and roles (some full access others partial)
* Track who made a reservation, who canceled one, and who last modified the reservation
* Be able to disable the packages if the spots fill up
* When registration happens company will get a phone call where the customer will provide:
  + Name
  + Address
  + Phone number
  + State (This might be redundant because they give the address and also the pick up location)
  + Payment information
  + Pickup Location (with this in mind, I’m not sure why the state is needed)
* Customer can reset password
* Sample tests will update as the DMV (or MVD) updates theirs

## 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 system will be a web-based application and will run through the cloud.
* The system should be fast enough to be able to handle a lot of different clients with no technical issues.
* The system will update whenever the DMV sends over a notification or if the developers put in a new feature.

#### 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 able to run on any platform, including Windows, macOS, and Unix devices.
* The client doesn’t want to have to deal with the security on their end. In result of this, the system will be ran and maintained by another company in the cloud.

#### 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?*

* Different users will have different accounts that, hopefully, only they have the right credentials for.
* Some input should be case-sensitive and some shouldn’t be. Passwords are one example of a thing that needs to be case-sensitive.
* The system should automatically log and inform an admin of any issues that arise. Logs are for doubling checking or in case an error was missed.

#### 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?*

* Yes, you are able to make changes to the user without having to change the code.
* Unless there is a big update, I think there should be a weekly maintenance and update day/time where the sit might be down for a few hours so they can push an update.
* I would think that the IT Admin would need full access to the system, especially if they are going to be able to modify the user without changing code.

#### 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?*

* The user must have the correct credentials, password and email/username.
* The company the client chooses to use for cloud services is going to handle the data exchange
* If there is a brute force hacking attempt then the account will have to have a timeout. Something like 4 times before it locks the account
* The user will have to provide the correct information to get an email with a reset link for their password.

### 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 provide practice tests and online classes.
* The system shall have a section to make appointments for in person lessons.
* The system shall push updates as part of a scheduled maintenance or manually.
* The system shall have an easy to use and navigate interface (not everyone is great with technology).

### 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 needs to be clean and easy to navigate.
* The different types of users for this interface would be the customer/student type and the teacher/admin type.
* Students should be able to take practice tests, take classes online, update their profile, and make or change appointments. The teacher will need to be able to look through appointments and make changes to appointments as well as to student’s profiles.
* The interface can be interacted with on a desk/laptop computer (if successful they will think about expanding).

### 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?*

* I am assuming that most users will have an internet connection and knowledge on how to use the basic amounts of a computer.
* I am also assuming that the budget isn’t a big deal at the moment as we were never talked to about it.

### 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?*

* There is a 5 month time frame currently with no actual budget. Depending on what the client expects the site to look like by then, we might need more staff, more time, or more money (not that we know how much we have at the moment).
* Another limitation is that the system will only be able to work through desk/laptop computers. Mobile devices will be able to navigate to it but they won’t have their own interface.

### Gantt Chart

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