# CS 255 Business Requirements Document Template

### 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, wants to provide their customers with information that will help them take on the driving test at their local DMV. They also wish to provide on-the-road training for any who are willing.
* They want their system to handle user requests, such as scheduling, modifying and canceling reservations.

### 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 their system to handle user requests, such as scheduling, modifying and canceling reservations.
* Have different user types that have access to different portions of the system.
* The ability to track who made a reservation, who modified an existing reservation and who canceled theirs.

### 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?*

* Once completed, DriverPass wants this system to be able to make, modify and cancel reservations.
* To disable/enable packages when they are/aren’t available. (Different packages have different benefits, such as long time with a trainer professional in a car, or access to online classes)
* Have a flexible package system that will allow DriverPass staff to add or removes packages.
* Receive updates from the DMV.
* Show any tests a user has taken. What test is in progress. When a test may start or end, and any comments from the tester.

## Requirements

#### 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?*

* Needs to run off the web, preferably over the cloud.
* No specification for how fast it should be.
* No specification for how often the system should be update.
  + There should be informational updates such as DMV rules, or when a certain package has been filled.

#### 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 made to run off Linux. Linux requires less resources and is free in most cases.
* The system needs a way to store information pertaining to who has scheduled a reservation, and what package they have chosen.

#### 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?*

* There should be 4 different user types. The owner, the IT Admin, the secretary, and the end user. There is nothing stating how to differentiate between then 4, in terms of logging in.
* Ian did not say when they should be informed of a problem, but it would be best if any problems were addressed as soon as they occur.

#### 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?*

* Low end users need to be able to view/modify their reservations, so it should be made possible to make changes without changing code.
* The IT admin needs to be able to maintain the system, modifying it etcetera. The owner needs to be able to manage user data.

#### 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?*

* As far as I can tell, a user only needs a username and a password. There aren’t an rules for extra security, aside from different user types, so there doesn’t seem to be a regard for user safety.
* Ian doesn’t mention a user being able to change their password but does mention that he should be able to reset their password.
* Again, there is no mention of extra security, so anyone trying to brute force it wouldn’t have any trouble.

### 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 updated when new DMV rules are posted.
* The system shall allow the IT admin full access to the backend.
* The system shall allow users to edit their reservation.
* The system shall allow users to access their data for offline use.

### 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.)?*

* There aren’t any images showing what the user login, but the user reservation and test page needs to show a tests progress, any notes from the driver, user information, and special needs, the driver photo and student photo.
* Only the end user interface has been shown.

### 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?*

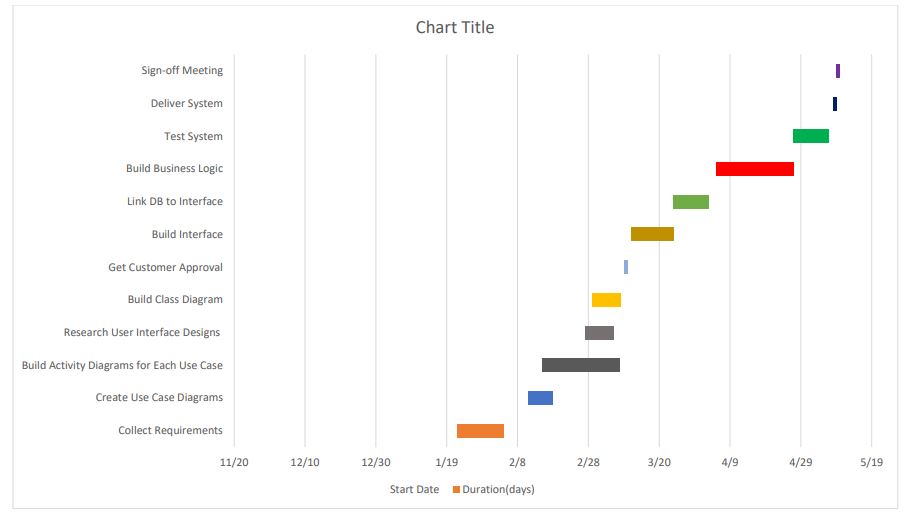
* There isn’t any extra security, users can’t seem to change their own account information, passwords have no limitations.

### 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 seems to be simple. But simple isn’t always the best. There isn’t any additional security aside from different user types. There aren’t any requirements for user passwords. Everything seems to be updated by the workers, IE DMV rules, package cutoffs, when these could be automated to display this information when it comes out.

### 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.*