# 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?*

* *Our client DriverPass wants to create a cloud-based system that will allow clients to schedule test, modify appointments, and practice driving tests.*
* *After speaking with the owner Liam, we have learned that the system needs to be able to disable packages that DriverPass does not want customers to have access to at any given time.*
* *Different user roles which include: users, admin, and maintenance.*
* *DriverPass will require access to online information and the ability to download information for offline use within excel.*
* *The owner also has requested to be connected to the DMV and receive instant notifications whenever the DMV makes changes or updates to their rules and regulations.*
* *DriverPass requires full access for their IT Officer, Ian. Ian should have access to all user accounts and the ability to edit, reset passwords, or block users from the system.*
* *DriverPass requires functionality for users to reset passwords with ease.*

### 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 the system to register and schedule users for their practice driving test and online driving courses.*
* *The system will need to be connected to the DMV via API’s*
* *Components need for the system include: Customer packages, inventory of cars and drivers, a registration system, online class system, and payment processing.*

### 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?*

* When complete the system must be able to allow customers to register for an account, browse different packages that are offered through DriverPass, register and schedule classes online, and pay for the classes. The system must also be able to keep count of cars and drivers available at any given time. The system must also allow users and IT officer to reset passwords. The system must be able to store customer information such as grades, schedules, progress, and attempts. Lastly, the system must have the ability to download information offline for use with excel.

## 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?*

* *DriverPass systems need to operate on a cloud based interface and have the ability for online and offline use.*
* *The speed of the system should be fast enough to handle all request made by users.*
* *The systems should not have an update schedule other than when rules and regulations are updated by the DMV.*

#### 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, Mac, and mobile applications. Since the system is cloud based there shouldn’t be any back end requirements to get this running.
* The system needs to be able to locally cache data for offline use of its database.

#### 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 be required to have unique user ID’s. User ID’s and password will be case sensitive and have a requirement for strong passwords. (At least one upper case, lower case, special character, and be at least 8 characters long.
* The systems should send a notification to the IT officer if the system is slowed down, completely down, or problems with he sign in system.

#### 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?*

* Changes to users can only be made by the specific user or the IT admin. IT admin will need special privileges in order to change and modify users so the system knows that they haver permissions. Changes to users can be made without changing code. Updates to the platform should only happen when rules and regulations are updated by the DMV. These changes should not affect users day to day activity on the system.

#### 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?*

* Users must log in using their unique user ID and password.
* Securing the connection or data exchange between the client and the server can be achieved by using SSL.
* If there is a brute force hacking attempt the system should lock down the account to where it cannot be modified or viewed in anyway.

### 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 prove training and courses through the cloud bases website.*
* *The system shall only allow data to be modified online and with permission.*
* *The system shall connect to the database to provide updated information once the user has entered the correct credentials.*
* *The system shall allow users to reset passwords.*
* *The system shall update and notify IT admin of changes to the DMV’s rules and regulations.*
* *The system shall allow admin to modify and remove packages as needed.*
* *The system shall allow IT admin to modify, delete, or reset passwords for users.*

### 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.)?*

* *User interface must allow users to login, create an account, recover an existing account, and reset passwords.*
* *Logo at the top of the page.*
* *Once logged in the user interface will display progress, notes from the driver, special needs, a photo of driver and student, and upcoming courses or test.*
* *Admin interface for IT admin with special privileges.*
* *Admin interface that gives them the ability to modify or delete a user as well as the ability to reset passwords.*

### 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?*

* An assumption that I am making is the device a user will be using. This was not discussed. It could be touchscreen or used with the click of a mouse.

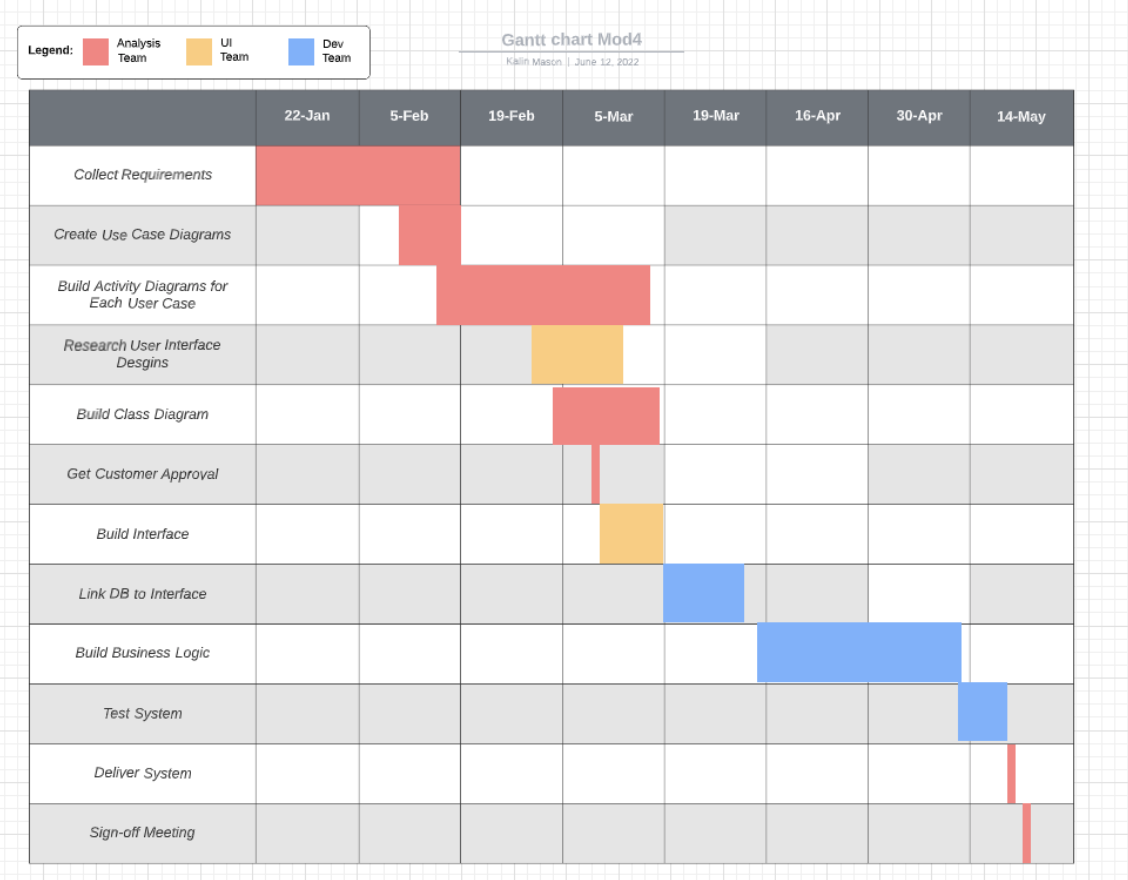
### Limitations

*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?*

* One limitation is the use of cloud. While this is a smart way to go for what DriverPass is trying to accomplish it could hold them back by not having control of the servers. Another limitation is not wanting to have an update schedule.

### 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.*

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