# 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 DriverPass and they want their system to help people be better prepared for their driver’s test 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?*

* The problem they want to fix is the high rate of failure of the driver’s test. They want to provide online training and assessments, as well as in person practice. They need to have 24/7 access from anywhere and be able to track changes in reservations.

### 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 needs a developer on hand to monitor and tweak features as needed. The system needs to be broken down to allow customers to choose the package they want, make reservations and utilize the online portion for assessments and classes. Protocols need to be in place for the owner to grant access to new employees and revoke access to former employees. The owner would like the system to run on the web in a cloud based platform. So a website needs to be built for the interface.

## 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 client wants the program to be Web-Based with cloud based platform. It needs to be efficient in its response time.]

#### 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 client prefers it to be browser based so it can run on Windows or Mac OS]

#### 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 would have login information with case sensitive passwords. The system should inform the admin of a problem if a user locks themselves out due to too many failed login attempts or if the system has an error communicating with the authentication servers.]

#### 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 system should be able to self update by adding/removing/modifying user accounts in the database rather than the main program code. The IT admin will need admin privileges in order to maintain the database and system and fix any issues that arise.]

#### 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?*

* [A login authentication would be required for a user to login. This information would be secured by encryption when exchanged between the client and the server. In the case of a brute force hacking attempt or multiple failed login attempts, the account should lock for either a period of time or until the user verifies their identity and changes their password. If the user forgets their password, they should be able to request a link to reset it to be sent to their email address. After verifying their identity, they would be able to set a new 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 allow access to the data for the owner
* The system shall allow for access by IT to user accounts to reset passwords or block accounts for former employees.
* The system shall verify login information to ensure only authorized personnel are accessing the system.
* The system shall allow for scheduling reservations by users for driving lessons.
* The system will notify users which driving instructor they are matched with for their session.
* The system will ensure that changes to DMV requirements are kept current in the system.
* The system will run in the browser
* The system will have pages for things such as test progress, driver notes, ect

### 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 web based in the cloud. The different users will be the owner, the IT person, and the customers. The owner, Liam, needs to have access to all the records and data. It, Ian, needs to have access to the user accounts to reset passwords if needed and revoke access when employees leave the company. Customers will use the interface to schedule tests and drivers lessons, check progress, and register for the plan they like. The owner will use the interface on mobile and browser, Ian will likely use the system in the browser or locally to maintain the system, and the customer can use the interface on mobile or on a computer, both in the browser.

### 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?*

* Security was mentioned, but not enough details given as to how this would be accomplished and implemented. I am assuming that the users will be able to navigate the interface easily and have internet access to do so.

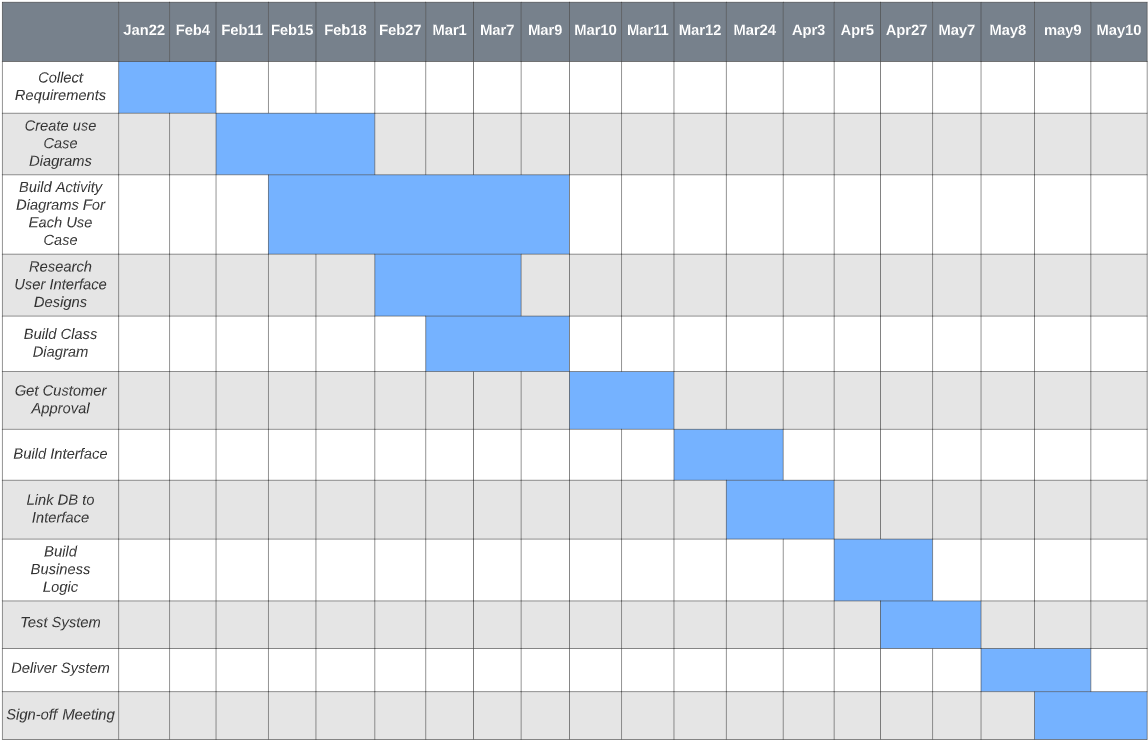
### Limitations

*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 will need access to the internet not only to run in the browser and update in the cloud, but also needs to iron out details on security. Limitations would be resources and budget mostly, which would need to worked out so the details are clear. We have the rough timeline so if that works for the client then that will not be a limitation.

### 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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