# 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 for this project is Driver Pass. They are a company dedicated to training drivers on how to pass their driving tests at the DMV. Driver Pass would like for us to create a system in the form of a website that will allow new drivers to take online classes, do practice tests and do on the road training, if needed, in order to pass their driving tests.

### 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?*

* Liam, the owner of Driver Pass believes that there is a current void within the market. He believes that there aren’t enough programs dedicated to training customers for their driving test and that’s why so many people fail their tests at the DMV. As such, Driver Pass wants to build a system that will allow for online classes, practice tests and on the road driver training to help customers pass their driving tests.
* The new system should allow for easy access of data from any mobile device or computer while online. It should allow specific types of access and rights to different roles within the company. The system should keep a record of any modifications, reservation or cancellations made the system.

### 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 the system should be a fully functional website. It should allow the user to be able to watch videos online, take practice test or quizzes, track their progress, and keep a record of all tests or tasks completed.
* It should allow driving instructor to leave comments or feedback on the client’s progress and Driver Pass should also have access to view the comments and times of the lessons.
* Driver Pass wants to have access to their information while they are offline.
* The system should allow the clients to view and select a driving package that they want to purchase at an available time and date. Driver Pass would then like to be able to track which driver, time and car the client is matched up with and they also want the ability to disable packages that they no longer want clients to register for.
* Driver Pass wants to be connected to the DMV so that they can receive real time notifications about updates on rules, polices and sample questions.
* Driver Pass also wants to be able to keep track of any changes or modifications made by their clients to reservations.
* Driver Pass should have the ability to restrict certain access to the system and data based on the employee's role.

## 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?*

* It must be a web-based system, so that clients can connect to the website.
* The DriverPass system speed must be fast as the system requires a lot of communication between the system database and server.
* The system should be continuously updated whenever there are changes to the DMV guidelines.

#### 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 would require a database to store information, such as lesson times, client and instructor match and quizzes.
* The DriverPass system should be compatible with computers and mobile devices as such it needs to be able to run on multiple platforms.

#### 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?*

* User should be distinguished based on their username and passwords.
* The input should be case sensitive as it provides additional security when login into an account.
* Admin should be alerted of a problem if there is an attempted or successful breech of the system.
* No two users should have the same usernames.

#### 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?*

* IT admin should have access to the whole system in order to efficiently perform their jobs.
* The system should allow for modifications to be made to the users without changing the 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 is required to provide a username and password in order to login to the site.
* We can secure connection between the client and the server by using HTTPS.
* In the event of a brute force hacking attempt, the IT admin should immediately be notified and the account in which the brute force attack was against should be locked so that further login could not be continued.
* If a user forgets their password, they should be able to reset that password by receiving a password reset link to the email address listed for them.

### 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 keep track of client progress and display said progress to the clients when needed.
* The system shall retain information entered by the user into the system.
* The system shall be updated based on any updates made to the DMV guidelines.
* The system shall determine the role of the user logging in and give access to content based on the user roles.
* The system shall allow for data access while offline.
* The system shall allow users to reset their passwords.
* The system shall allow DriverPass to disable packages when they become unavailable.
* The system shall allow student to make changes to reservations once made.

### 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 different users would be the students, the instructors/drivers and admin.
* The instructor should have access to view driving schedules and upload comments or feedback on previous lessons.
* IT admin should have access to all areas of the system.
* The students should have access to taking exams, tracking their learning progress, scheduling driving lessons, updating their personal information, and viewing contact information for DriverPass.
* The DriverPass interface should allow restricted access to each party depending on their role, whether students, instructors, or admin.

### 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 the DriverPass clientele would be solely students looking to pass their driving exam.
* That these students might want to utilize their mobile devices when taking practice quizzes.
* That the clientele would be of the legal driving age.
* That the learning material would be available 24/7.

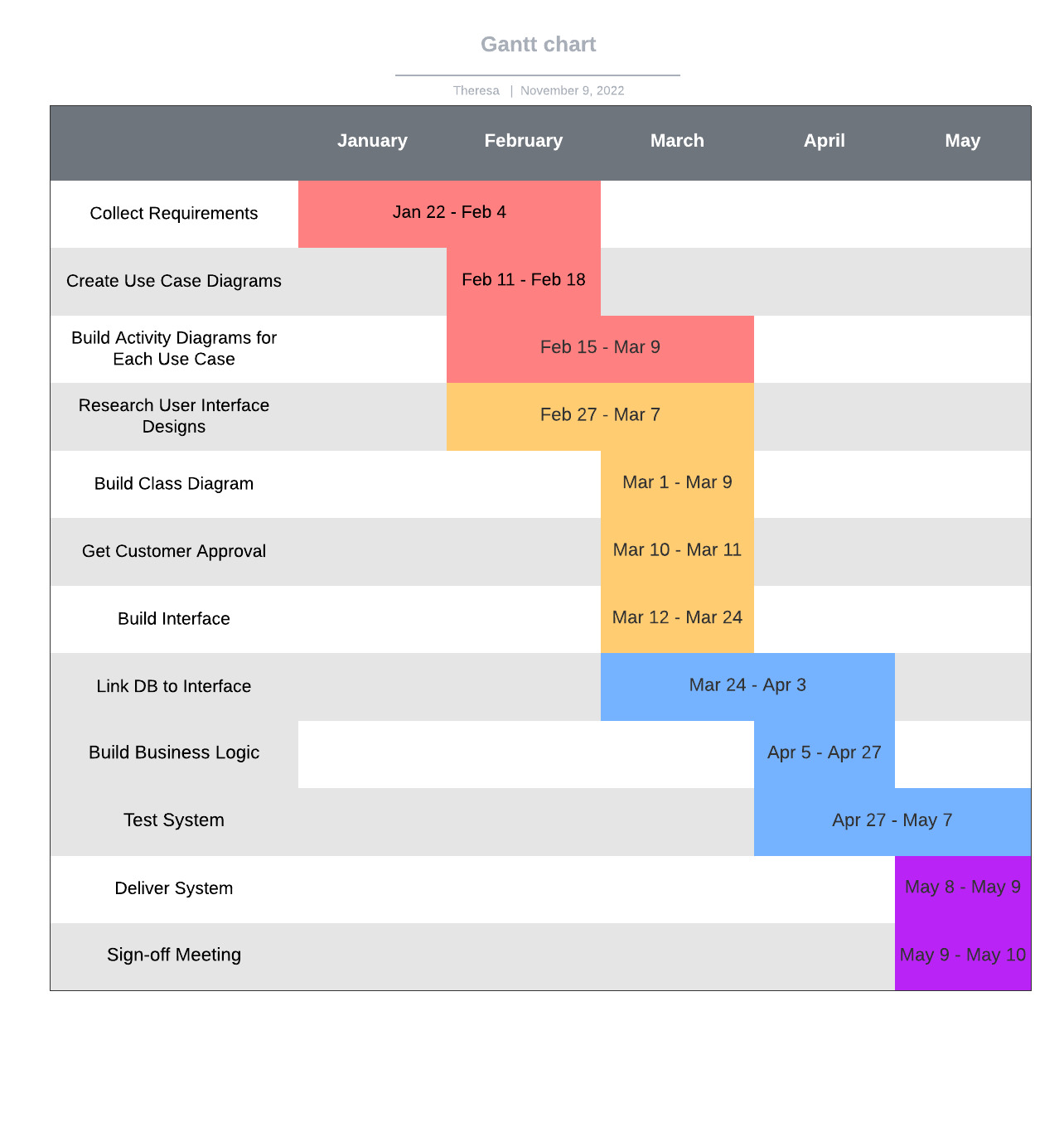
### Limitations

*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 major limitation would be the proposed timeline in which the DriverPass project needs to be completed.
* DriverPass only has a limited number of vehicles and as such driving class schedules need to be updated appropriately according to vehicle and instructor availability.
* In order for the system to stay up to date with the latest DMV updated guideline and information stable internet connection is required.

### 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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