# 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 Clients is Liam the owner of Driver Pass. They wish for a system that allows users to be able to purchase tutoring plans for online classes. Along with being able to register for a driving lessons from one of our drivers. Their company goal is to better prepare people for being able to pass their drivers test.

### 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 client Driver Pass has identified a gap in the market. Where students in their area are failing their drivers test. They believe that this issues is due to lack of preparation and teaching for these test takers. In an effort to solve this problem our client seek to create a user friendly platform where the students can take test and hire drivers to better prepare the students for passing their drivers test in the future.

### 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 must be able to complete.

1. Allow the user’s to create an account and provide relevant information.

2. Online teaching to help drivers understand the rule of the role.

3. Have the ability for students to hire drivers to give in person driving lesson.

4. Having a list of available dates and time for each driver so the students can select the best time for theme.

5. Have a package for Six hours in a car with a trainer.

6. Have a package for Eight hours in a car with a trainer and an in-person lesson where we explain the

DMV rules and policies.

7. Have a package for Twelve hours in a car with a trainer, an in-person lesson where we explain the

DMV rules and policies—plus access to our online class with all the content and material. The

online class also includes practice tests.

8. Ensure that there is proper login authentication. And that all users information is safely secure in our database.

9. Create reports for user’s that updates them on their progress or major changes in local driving laws.

## 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 should be available on both mobile and web-based platforms
* The system should have a near 100% uptime, 99.9%
* When material is updated it should sync with each user seamlessly.
* The system should be able to handle large and increasing numbers of users .

#### 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, MacoOs, ios, ad android, with the possibility of the Unix version. Which should still have access through the web browser, along with all the others.
* A data base such as MySQL is needed to manage user accounts and information.
* The system should be compatible with multiple web browsers.

#### 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?*

* Each user should have a unique identifying key. This key can be a number assigned at account creation , or an email. Something that no other user can have.
* User Passwords should be case-sensitive to provide more options for passwords.

#### 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?*

* User information should be modifiable by admins, and should be done in our database (SQL) to avoid changing the code.
* Developers should make the system as modular as possible to allow for easier updates.
* IT should have full access to most of the users information, along with system settings .

#### 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 need a valid user name and password in order to login.
* Any data being transferred should use HTTPS encryption.
* Prevent or minimize brute force attacks by having an account login being locked out for a period after to many failed entries.
* The user should be able to request an email to help remove a password. Or contact an admin/IT to request a password change.

### 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 should allow the user the create an account.
* The system will allow the user to select a lesson package.
* The system will allow user to scheduled optional for driving lessons.
* The system should allow admins to manage user’s profiles and information.
* The system will validate the user’s login credentials.
* The system should have a secure check out process.
* The system will let the user know their results on a drivers lesson/test.
* The system will send emails to notify users on upcoming lessons.

### 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 system should have a clean and simple design that is easy to navigate.
* The system should be accessible by users on both mobile devices and desktop browsers.
* Students should be able to register, log in, choose packages, view lesson schedules, and track progress.
* Admins should be able to manage user accounts, assign driving lessons, and monitor user progress.
* The interface should support both touch and click-based interactions for usability across platforms.

### 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?*

* It is assumed that users have reliable access to the internet.
* It is assumed that users have basic knowledge of how to use websites or mobile apps.
* It is assumed that DriverPass instructors and admins will be trained on how to use the admin tools.
* It is assumed that most users will interact with the system using modern devices and up-to-date browsers.

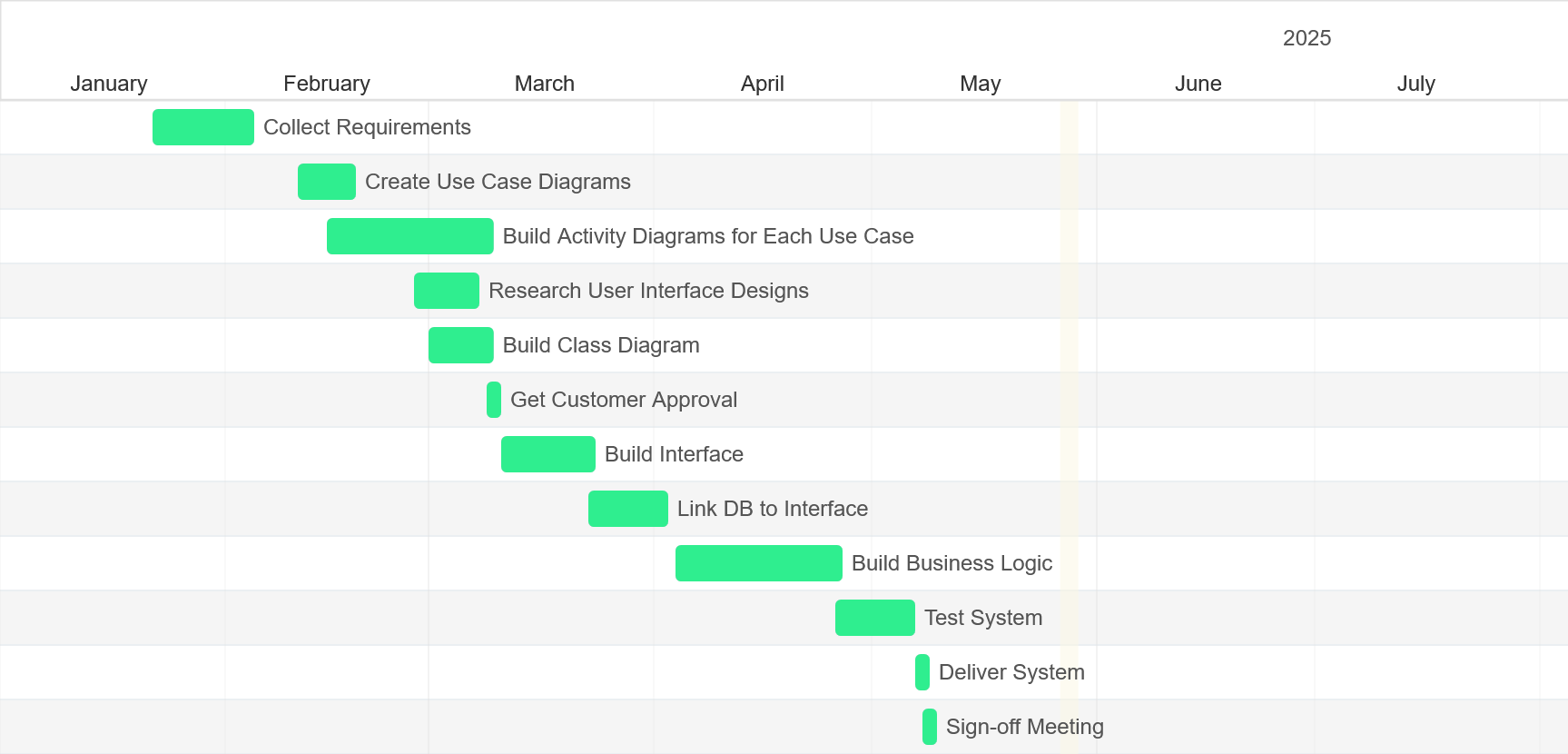
### Limitations

*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 may not perform well on outdated browsers or very old smartphones.
* Budget restrictions may limit advanced features like live video support or real-time chat with instructors.
* The first version of the system may not support multiple languages or accessibility features for users with disabilities.
* Time constraints could affect how many driver packages or reporting features are available at launch.

### 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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