# 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?*

* DriverPass noticed there are not many available tools to help drivers perform well on the driving test.
* DriverPass decided to jump on the opportunity and create a system via a website to provide driving students practice through online exams and also give them the ability to book in person training with professionals.

### 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 is looking to fill a niche and help people who are struggling with their driving test.
* DriverPass is looking to help those struggling by providing online exams, classes, and an ability to book in person training with professionals.
* As long as a valid internet connection is available, the system can be accessed from anywhere.
* The system requires the correct security features to protect user accounts, their access, and their private information.
* The system will be able to track all reservations, modifications, appointment cancelations with all three packages that are being offered for in person training with professionals.

### 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 the system is completed and online, users will be able to book, cancel, and modify their in personal training with professionals.
* Once the system is complete, customers will be able to take practice tests and classes online.
* The system will be able to grant elevated access to certain employees so they can make changes and provide support if necessary.
* To create the system, we will need to use UML diagrams, object models, and project models so the system can be visualized.
* In order to build our system, we must select an operating system and language that will be used.

## 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 will be web based and portrayed as a website.
* The system will have enough speed so users can browse the website, class, tests, and scheduling without any hiccups.
* The system will be updated consistently to fix bugs and add new features

#### 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 platform will run on Linux.
* The System will use cloud management for security and back end databases.

#### 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?*

* New users will be able to create an account with a username and password. The inputs will be case sensitive and multi-factor authentication will be required to keep the accounts safe.
* The system will automatically inform admins of any bugs, glitches, or problems users experience on the website.

#### 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 will modifications and removal of users without any need to change code.
* The system will slowly introduce platform updates to introduce new features.
* Once DriverPass decides to add new features, platform updates will start
* DriverPass IT will be given elevated access so they can control the system and make necessary changes when required.
  + Employees who leave the company will have access removed.

#### 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 will need to input a username and password to log in, then confirm via multifactor authentication.
* The cloud will control data exchanged between the client and server.
* The system will automatically disable accounts after four failed login attempts to prevent forced attacks.
* If users forget their password, they will recover their account via an email sent to the email they signed up with.

### 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 will validate user credentials upon logging in.
* The system will book reservations when prompted by the user.
* The system will provide classes and practice tests.
* The system will provide the user with the driver they are assigned.
* The system will be fast, efficient, and free of errors.
* The system will provide elevated access to certain users.
* The system will give users a summary of tests and work they have attempted and completed.

### 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 interface will provide options for scheduling driver appointment packages, online classes, and tests.
* The system interface will allow DriverPass employees to have elevated access and make necessary updates when needed.
* The system interface will provide services via any device with a valid internet connection and web browsers.

### 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?*

* No budget was given for this project.
* We will assume the budget and choose to use Linux and cloud services for our build.
* We will also assume we have a sufficient amount of employees to work on this build.
* We will assume we have the necessary technology, education, and systems to complete the build.

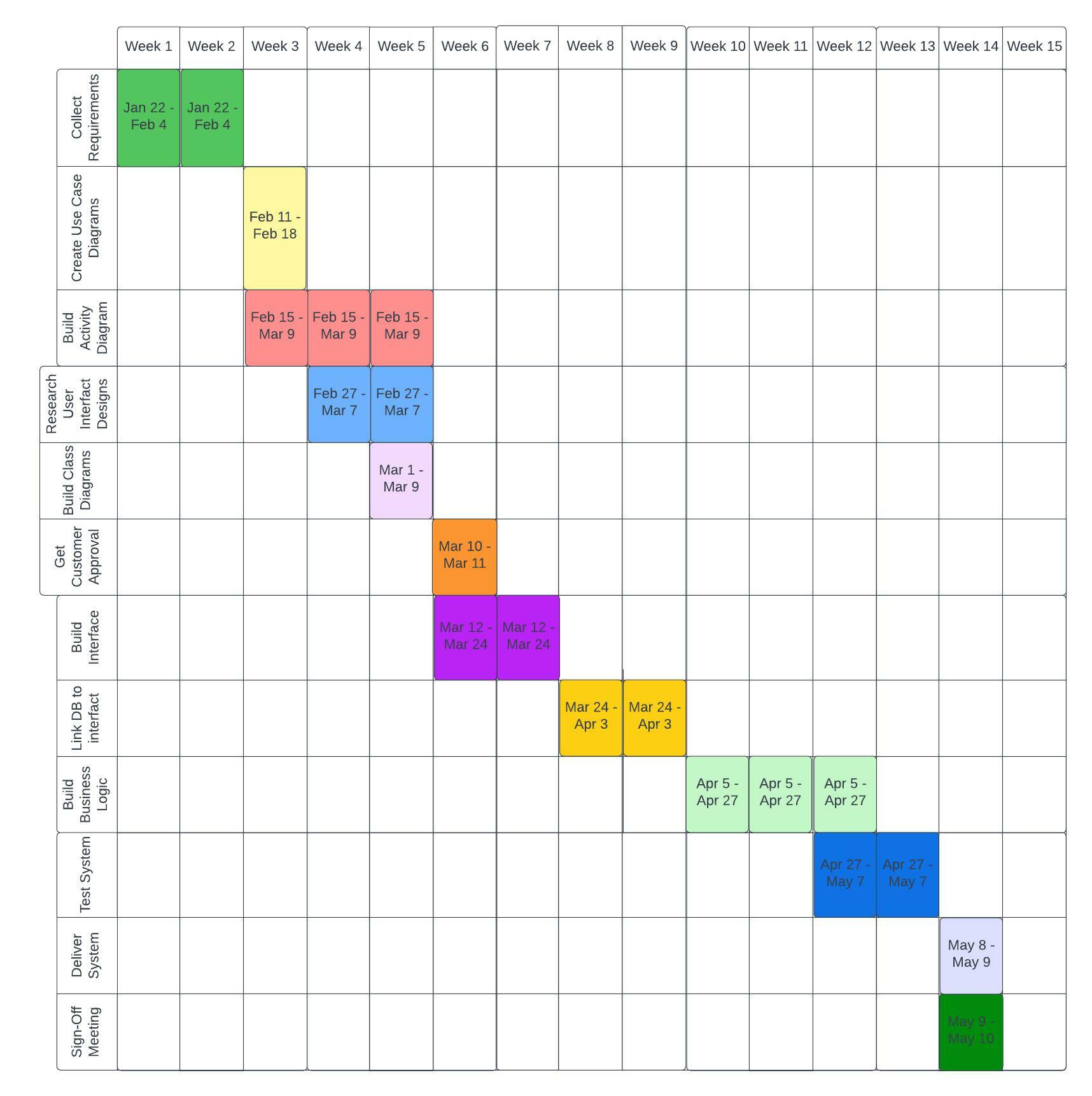
### Limitations

*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?*

* No budget was given.
* 5 months to finish the system build.
* Main limitation is requiring more employees to build the website to make our time limit.
* Agile methodology will be the best approach.

### 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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