# 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 is Liam, the owner of DrivePass. Liam wants to create an aid to help future drivers with their training and driving test. They want to design a system where those future drivers can set appointments for their training and would have the ability to access online training and practice 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?*

* The system needs to be accessed from either online or offline
* Liam wants to be able to see reports from anywhere and on desktop or mobile devices
* Wants to be able to give and take away access from users and the ability to control passwords
* Full control for Liam but different kinds of access to IT and secretary
* Wants the control to disable packages when unavailable or schedule is full
* Wants control over scheduling, being able to add or delete schedules made by all users
* Wants updates from DMV (rules, tests, policies etc.)
* Does not want backup or security
* Wants the system cloud based

### 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 main goal is to have a fully functional system where users can schedule their driving course online while DrivePass can see these scheduled appointments and be able to manage those appointments.
* The system should be designed well and the back end for the owner, IT and secretaries should be well managed to be able to control what's on the website.
* The system should be updateable with the latest from the local DMV that way the users/customers are able to pass their driving test.

## 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 their system to be web based. The system needs to be fast enough so that any user is able to login and use the system with ease. The system needs to be updated automatically and will need to send a notification if any updates are available.

#### 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 wants the system to run on multiple platforms this includes a phone and computer. The client wants the system to run on a cloud server, this will be a third party system, implementing any tools and features that come with the third party.

#### 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 created their own usernames when asked to sign up for DrivePass. The input should be case-sensitive and include another multi authenticator system. The system should inform admin when there is any problem at anytime. Adding a user or third party report system should help with security as well.

#### 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 full access to the system to ensure that the system doesn’t fail or that the system is running smoothly. The system should have a code that allows for a add/remove/modify without changing any code. When it comes to updates, the system code should be similar to the update before allowing for no glitches or bugs when updated.

#### 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?*

* For the user to login they need their username and password and the system should have a multifactor authentication, something like or similar to googles authenticator app. The third party server should serve as the secure connection and handle the responsibility of data exchange. If ever a hacking attempt occurs, an notification to all users needs to be sent out as well as a request to have passwords remade. System should run through attempt but if a shutdown and update needs to occur, users should be notified.

### 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 have the user use their username and password to login
* The system shall make reservations
* The system shall provide all resources for classes
* The system shall provide the instructor for classes
* The system shall offer the different prices for each class
* The system shall provide updates on classes
* The system shall provide notifications to users
* The system shall secure all information and data

### 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 UI should work the same on any device whether it be a phone tablet or computer. All users need to be able to create appointments and be able to modify them. The users also need to access their resources for classes and appointments.

### 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?*

* One assumption that comes to mind is system and server requirements. We assume that the system will run on any browser what if Chrome or IE needs the system to meet requirements before being able to run on those browsers. Same for the server, we assume the system will fit on a server but what if multiple servers are needed, thus needing more space which equals to more money.

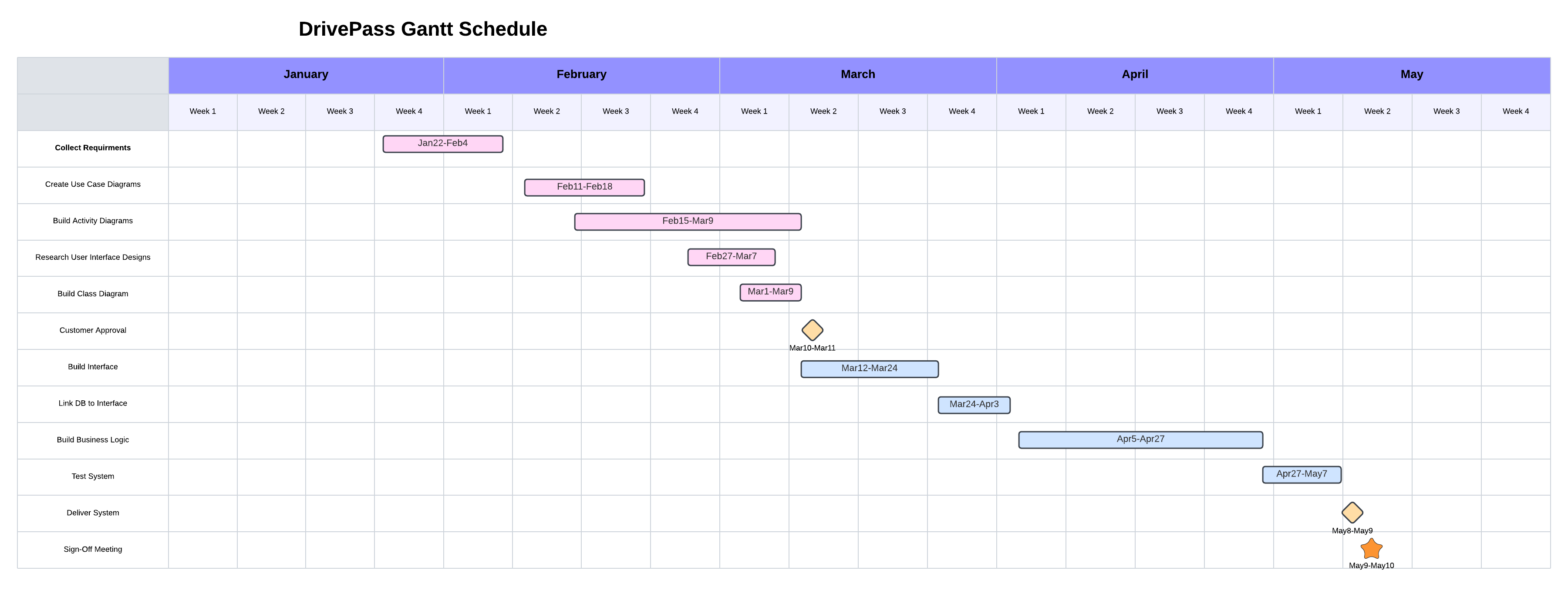
### Limitations

*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?*

* I would say the limitation we have is time and resources. 5 months with a small group might be cutting it close. If possible hiring more people or extending the time to have the system complete.

### 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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