# 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 purpose of this project would be for the client “DriverPass”.
* They want their program to be able to provide extra training opportunities for learning to drive.

### 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 current issue is that too many people are failing their driver’s test.
* They want to be able to help people study and prepare for the drivers test so they don’t fail.
* They are looking for online classes with practice tests as well as on the road training with a driving instructor.

### 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 program will be able to create an account with
  + Name, address, phone number, payment information
  + Pickup/ drop off location.
* Schedule appointments
  + Choose package
* Reset password
* Admin account
* Match users with professional driver
* Remove packages
* Update info from DMV
* Show the user progress

## 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?*

* Cloud based
* 1-2 second load times
* If the load time is greater than 3 secs logs feedback
* Frequent system updates

#### 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?*

* Windows
* Mac
* Mobile
* Servers should hold all information

#### 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?*

* There will be user accounts and admin accounts
* Specific passwords
* Admin alerts of system failure

#### 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?*

* Changes should not change any code but just their account
* Work on any platform with no changes
* Admin control to update/ edit system

#### 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?*

* Password required for login with two-factor authentication
* User lockout with failed attempts

### 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 ensure the correct password with user/ admin
* The system shall depict user / admin
* The system shall allow change of passwords
* The system shall limit failed log in attempts to 5
* The system shall build user account /info
* The system shall have access everywhere
* The system shall display all packages
* The system shall let admin disable packages
* The system shall track each user with their driver
* The system shall update with DMV Info
* The system shall display user progress
* The system shall display driver notes
* The system shall display lesson times
* The system shall display driver / user photos

### 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.)?*

* Users will be able to access data on every browser or mobile devices
* Multiple users IE admin / customer
* There will be the following interactives for User
  + Login
  + Home
  + Progress
  + User info
  + Driver notes
  + Lessons
  + Package info
  + Learning tools
  + Contact info
* There will be following interactives for Admin
  + What customer registered
  + Which customer is on which package
  + Driver/ customer relationship
  + Remove packages
  + Password reset

### 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?*

* 24/7 access
* Each user/ admin can navigate the site accordingly
* Customers will be on time for each lesson and it will not go over.

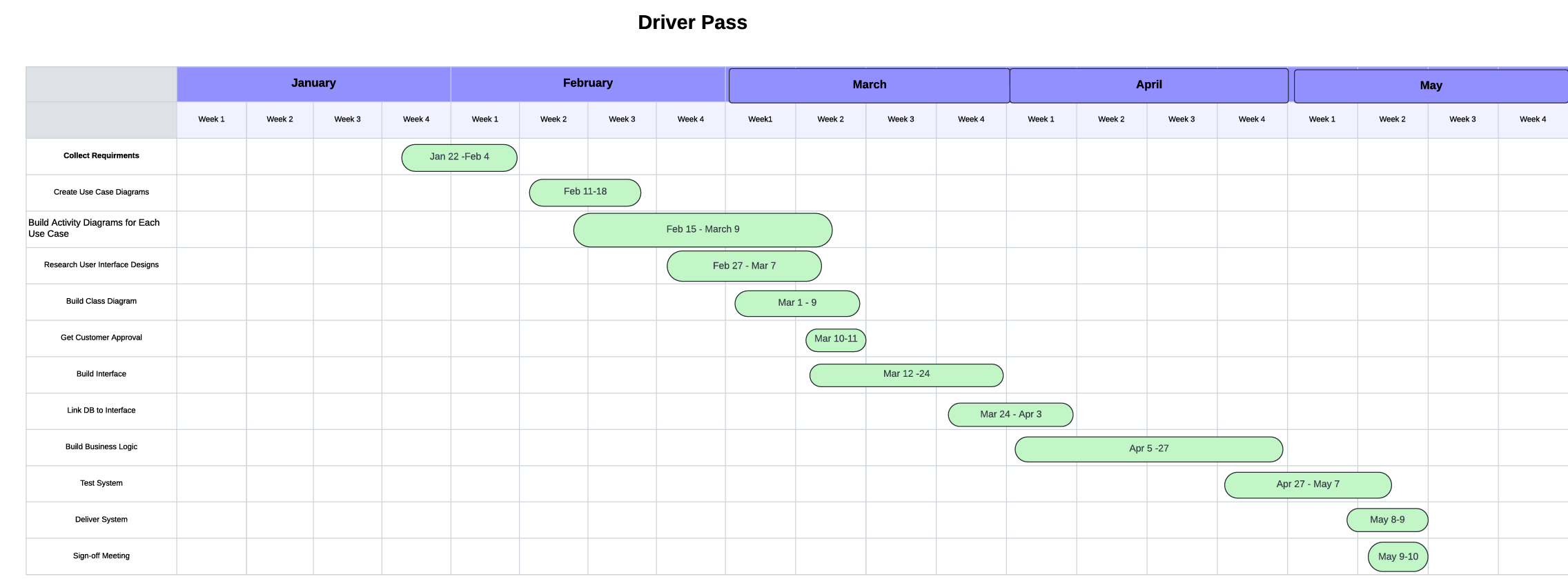
### Limitations

*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?*

* Client only has 10 cars which need to be maintained
* Internet issues
* Limit on each package
* Outdated user devices
* Meeting all requirements within budget and timeframe

### 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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