# 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 is DriverPass
* Better driver training
* Access data from anywhere, including mobile devices that are connected to the internet
* Schedule appointments remotely
* Run with a cloud based server and be web based

### 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 being built is supposed to fix driving students failing their driver tests at the DMV
* The system will be used to schedule appointments and keep track of how the student is doing each appointment
* The different components are appointment scheduling, progress tracking, web page, tracking company car usage along side which package is being used with the car, and security features based on differed roles within the company

### 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?*

* Different security clearances
* Tracking who made changes, and tracking who made reservations or canceled
* Allow customers to reset their own passwords
* Track which out of 10 cars are in use and what package they are using
* Show online progress of what the customer has failed or achieved

## 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?*

* Web-based application
* System needs to run fast enough to quickly add appointments in real time as data is entered

#### 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?*

* System should be a cloud based server operating system
* The backend will require a database to store customer info, employee info, appointment info and vehicle info
* Cloud OS that is compatible with many mobile devices as well as compatible with Windows and/or OS X (This will be a DriverPass preference)

#### 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?*

* Administrative permissions
* Input should be case sensitive to prevent errors
* System needs to keep track of reservations, cancelations and who made modifications last
* Admin needs access to the changes information

#### 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 officer needs total access so system maintenance can be done
* secretary needs access to scheduling
* Boss needs access to entire system
* Updates for new features are to be discussed in the future
* User changes can be made by admin or the users with the proper log in

#### 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?*

* Security is dependent on cloud server provider
* incase of a brute force hacking attempt, lock account
* Username and password with a special character shall be required
* Prompt to recommend not using the same password from another log in for security reasons
* Allow the user to use recovery questions for account recovery
* Allow user to call someone from DriverPass to change the password

### 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 allow the user to view test results
* The system shall allow the modification of scheduling
* The system shall store data within the cloud database
* The system shall validate user credentials when logging in
* The system shall allow the user to view interface from a device connected to the internet

### 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.)?*

* Show online test progress
* Show user info
* Detail special needs
* Show driver photo
* Show student photo
* Display driver notes
* Driver should be able to access all of the above
* Administrator should have access to UI
* Driver shall be able to modify the UI of individual students
* User shall be able to update info, photo and click on a link to open the online test

### 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?*

* The assumption that Users would be able to access the online test through UI
* The assumption UI information can be changed by all parties
* The assumption the each user would have a unique UI attached to their account for access by the administrators
* Assumption users have a basic common knowledge to navigate an easy to use UI

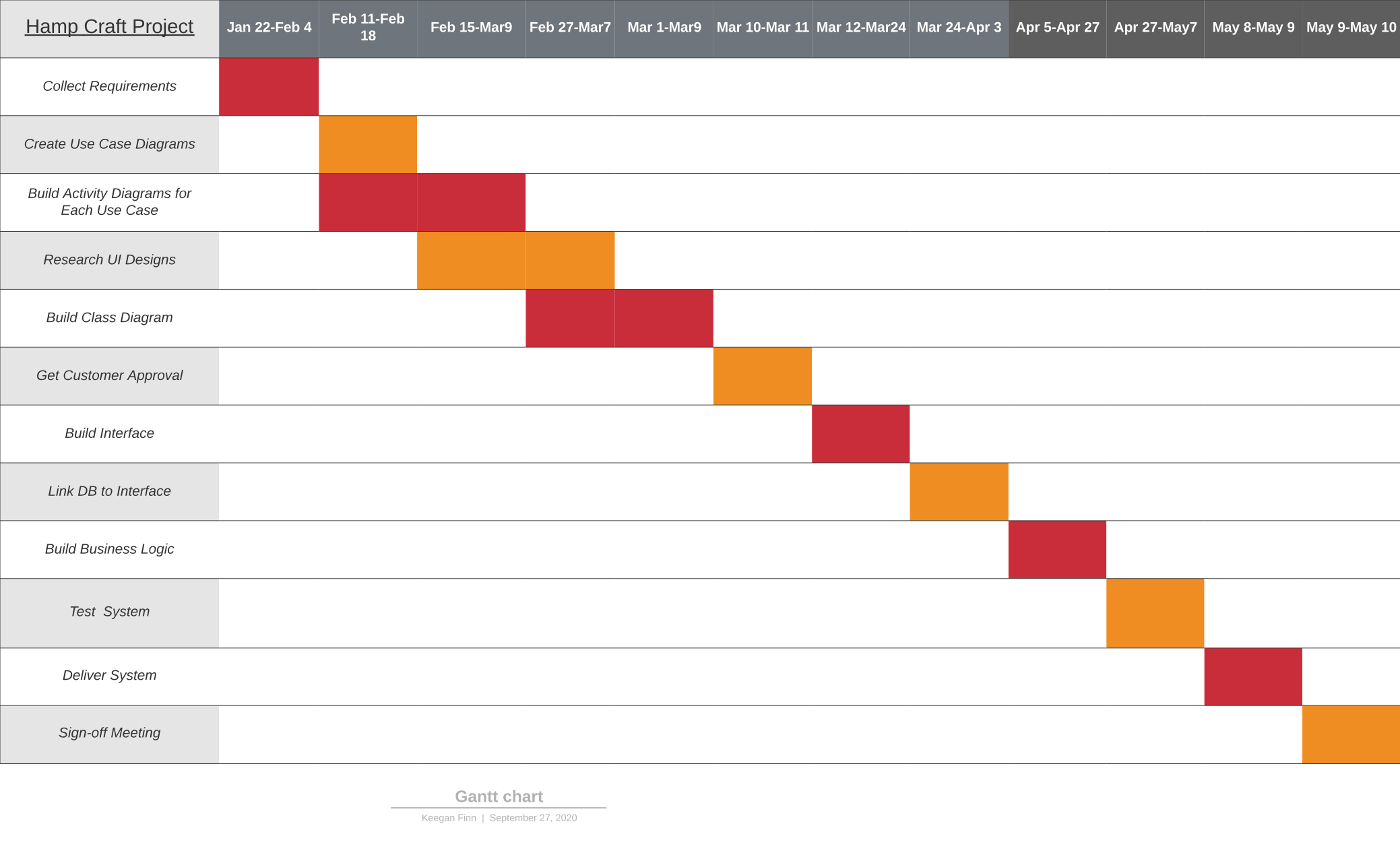
### Limitations

*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 main limiting factor is money
* Only three employees were mentioned to have access to certain areas of DriverPass
* As DriverPass grew, the system would need changes
* Sign-off meeting taking multiple days on the schedule
* When thinking in long term cost, cloud servers cost more than dedicated servers

### 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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