# 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 Driver pass want to create a company with software that allows their customers to get a HeadStart and learn how to drive so that they are ready for the DMV

### 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?*

* They want to fill the void of better driving training for those taking their driving tests soon, because they have noticed many people failing the tests.
* The system should let a customer sign up for various options of resources to help them.
* The system needs to run off the web, preferably over the cloud.
* They should receive updates from changes in DMV requirements and laws.

### 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?*

**User Registration and Authentication:**

* Enable user registration.
* Facilitate login for students or temporary users.

**Platform Display**

* Display company contact information and branding details.
* Present a straightforward explanation of the user interface and learning platform functionality.
* Display the company logo with an option for updates.

**Student Account Management:**

* Allow registered students access to package enrollment and upgrades.
* Allow registered students to modify their information.
* Enable registered students to print offline information for accurate data collection.
* Provide the capability for registered students to update personal information and profile photos.

**Access Restrictions and Administration:**

* Implement restrictions for students and institutional staff as specified by Liam and Ian, or DriverPass.

**Web Platform Features:**

* Enable scheduling of appointments on the web platform for students or unregistered users.
* Simplify processes for non-developer staff to address issues or modify packages and modules based on provided services.
* Provide adaptability to accommodate evolving company needs.
* Facilitate connectivity of the company platform to interact with and receive DMV updates on rules, regulations, legalities, etc.

**Special Features:**

* Incorporate a special needs section for specific users.
* Allow for driver notes with integrations and data cells, including Lesson Time, Start Hour, End Hour, and Driver Comments.
* Permit secretary edits for driver notes and integrations.

**Users:**

* Liam, the owner, possesses complete access to user profiles, databases, files, testing, user interface, etc.
* Ian has limited access to specific package modules, package modifications, user review access, editing, and software updating.
* Secretary has access to accounts and ability to order and set appointments for customers.

## 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 software should be web based.
* The software will need to be able to run smoothly so there are no complications.
* The system will need to be updated with the administrators change or update the system.

#### 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 software should be ran on linux
* Since the software is using the cloud tools for backend will not be necessary.

#### 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 separate accounts that will be deemed “ADMIN” one of which will be able to change or add different administrators.
* Each user will be able to create an account which will be case sensitive with multi factor authentication for safety.
* When ever there is an error with a user they will be given the chance to report it to the admins and if there is a system error they will be notified through the app and any emails or systems they add as correspondents.

#### 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?*

* Each user should be able to create and remove their account without changing code.
* The system will be updated with information from government changes through driver pass as the new information is added.
* The IT admin will have full access to the system in order to make necessary changes or fixes.

#### 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 username, password, and multifactor authentication to log in.
* Data exchange between client and server is handled by the cloud.
* Accounts are disabled after four incorrect logins to prevent brute force attacks.
* Password reset is initiated by entering the registered email, followed by receiving a reset link.

### 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 validate user credentials during login.
* The system shall book reservations upon user request.
* The system shall offer practice tests and classes.
* The system shall display the paired customer for the driver.
* The system shall provide three driving packages.
* The system shall ensure fast and efficient operation.
* The system shall grant custom access based on user privileges.
* The system shall show completed tests and work for the user.

### 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 interface will need to allow users to go in and purchase packages based on what driverpass is selling like reservations for classes and driving tests. Along with tests and resources to study online.
* The interface will allow employees to go in at any time and make changes as necessary.
* The users should be able to access it through a computer, mobile phone, laptop. All systems with access to the internet.

### 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 system was not allocated a budget. As a result, we are assuming that all the tools necessary for building the system, including the Linux environment and cloud services, will be within budget.
* We are also assuming easy access to all of this technology.

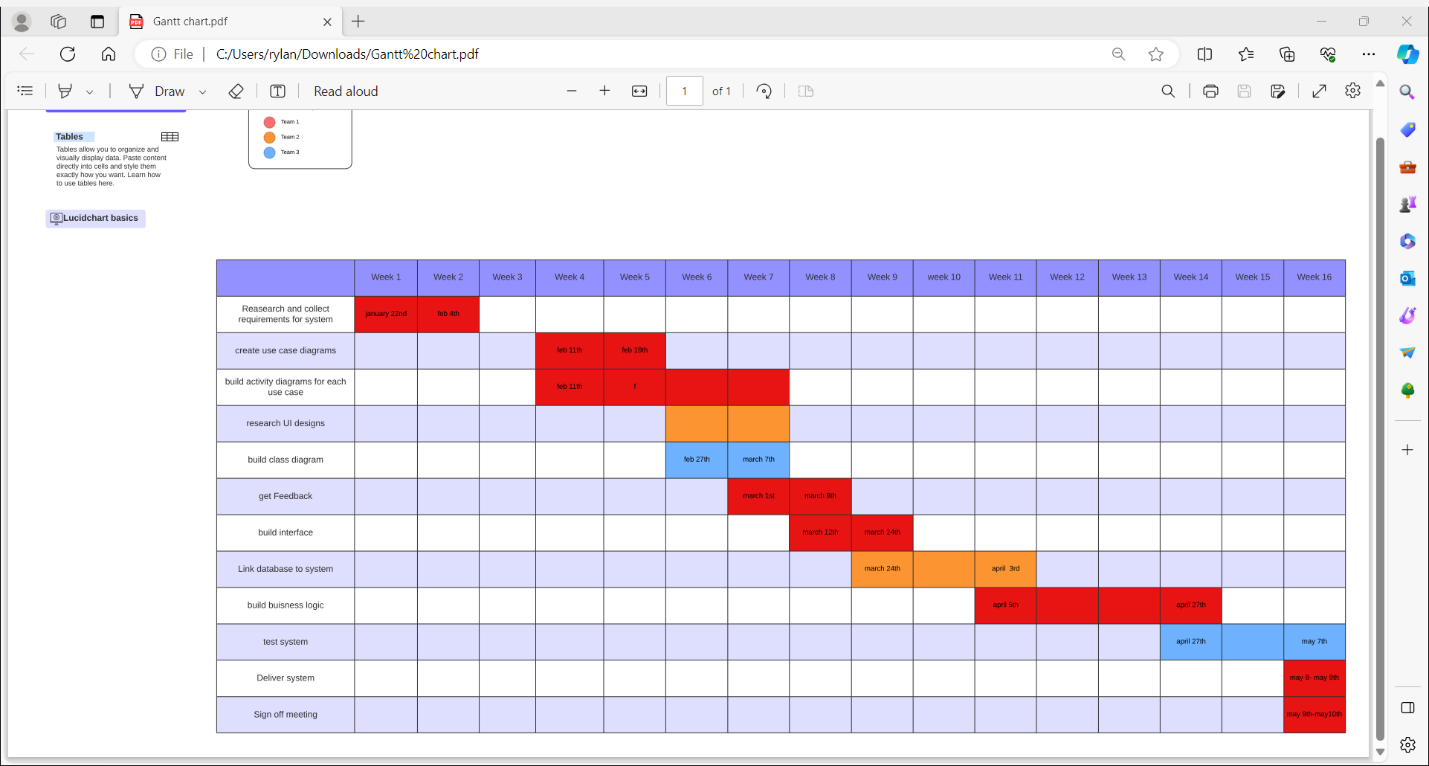
### Limitations

*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?*

* Some limitations are the budget and we have 5 months to complete it.
* Some limitations could be that our team is small so we would have to use agile scrum method to 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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