# 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?*

* Client is DriverPass
* Client wants to create a system that helps driving students to pass their driver’s test
* This system will include classes, practice tests, and on-the-road training

### 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 should be able to be accessed on or offline by download
* They system should provide on-the-road training
* The system is to fill a void in the market of driver training

### 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?*

* Hierarchy security system
* User tracking
* Activity report
* Reservations for driving lessons
* Customers pick one of three packages for reservations
* Disable packages
* Password reset

## 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?*

* This system will need to run in a web-based and application environment.
* The system will need to run efficiently
* The data in the system will be updated frequently and along with DMV compliance changes
* The security for the system should be updated at least once every three months

#### 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?*

* This system should run on Windows
* The back end will require a database and possible integration with the DMV

#### 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?*

* Each user should have different permissions
* Student drivers will have different access and permissions than administrators or instructors
* The input for passwords will be case sensitive
* Admin should be informed of any errors updating or reporting data

#### 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?*

* Users should be able to have permissions changed, be removed, added, or passwords changed without changing code
* The system should be flexible to platform updates
* IT will need access to the modules, maintenance of the system, modifications

#### 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 are required to have passwords
* The account should be locked and need admin approval for a password reset for a brute force attempt
* If the user forgets their password, there should be an option to reset it via email

### 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 when logging in
* The system shall track user activity
* The system shall store information of the user’s progress
* The system shall update order information
* The system shall schedule driving tests/lessons
* The system shall register new users and delete old ones

### 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 needs to have sections of online test progress, user information, driver notes, special needs, driver photo, and student photo
* The different users are students, administrators, and driving instructors
* All users will need to be able to interact with the interface on mobile and web browser.

### 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?*

* Users have an email
* Changes made in the DMV can be tracked
* Users can be reached via email or phone

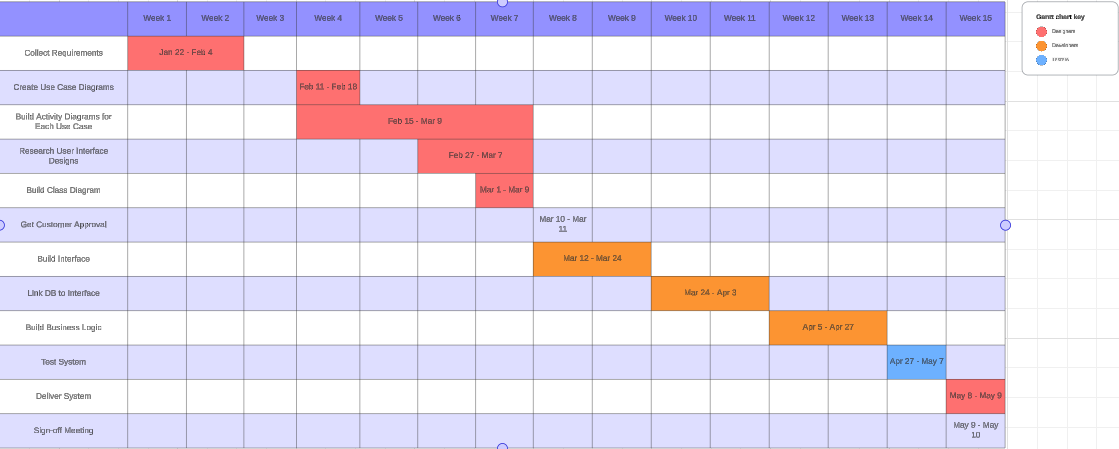
### Limitations

*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?*

* 15 weeks to complete program
* The system must be compatible with most modes of web browsing and mobile devices
* Updates may need to be made at any given moment

### 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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