# 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 company DriverPass wants to create a test preparation system that helps train new drivers for the test portion of the driving test. The owner Liam noticed there was many failures for driving tests so he wants to make a system that will better prepare student drivers for their tests. So, they want to make something to help schedule and monitor learning progress.

### 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 issue is lots of people are failing there driving tests, so the owner wants to make a system that lets students easier set up and schedule lessons. They also want to make it easier for the secretary to add information. In addition, that want to make it so scheduled events can be modified in case something comes up.

### 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?*

* When completed the system should hold track and modify scheduled dates. Should allow drivers to leave comments to the driver. Should track when information is changed for a student and allow for modifications by specific people.

## 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?*

* They want a web-based program so it should run on computers along with mobile devices. System updates should be minimal, but these should be done by a developer the company hires in the future.

#### 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?*

* They would like a cloud-based system that can run on any platform this way they company doesn’t have to worry about security and backups.

#### 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?*

* The system should distinguish users with several things such as name address city ect. The system should only worry about case-sensitivity when using unique identifiers such as a student id or password.

#### 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 be modified without changing code. This can be done by storing information in a separate document that the system reads and handles as needed. The IT admin should be able to modify any users information while not having to change any code for the 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?*

* For user login it should utilize either the users email address or a login name the user wants to use. Along with this the user should create a password that is secure, and wont easily be found out. In the case of someone trying to get into the users account after a few wrong attempts the users account should be locked, and they should be alerted of this and why. The user should be able to change there password automatically and have the account unlocked if needed.

### 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 securely store user credentials.
* The system shall validate user credentials.
* The system shall prevent unauthorized users.
* The system shall give access to only users who have access to specific areas.
* The system shall track users progress and allow for feedback.
* The system shall allow for appointments to be made and modified by allowed users.

### 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 system should allow the owner to modify anything he pleases from the information of users to what available packers are. It should allow users to handle their own personal information along with view any needed information. It should allow IT and secretaries to modify only what they would need to modify such as user information. The users will be able to use a mouse or finger to select and change needed information along with navigate to other pages.

### 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?*

* This comes with the assumption the user has the required technology to access the platform such as internet that has access to the web page or a device capable of running what will be needed.

### 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?*

* In the initial build a limitation will be different packages not being able to be modified without changing code, in future build it could be modified so this is possible but due to time is a limitation.

### 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.*

*Timeline

Description automatically generated*