# 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?*

* This is a small company who wants to operate as driving instructors.
* They want software to help structure their data on clients, and to have different access for different types of employees.
* This software will include a webpage and the ability to download files and update them from downloaded files.
* The webpage will also allow customers to make appointments which the software will keep track of, including date and time and duration of lesson. As well as keeping track of which instructor is assigned to

### 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 an online and offline method for keeping track of their customer data and their own appointment data.
* They want this software to be accessible by all employees but be secure so that each employee only sees what they are allowed to.

### 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?*

* Be a webpage, likely hosted on a web server.
* Have security measures in place to allow for users with different levels of access
* Have a way to keep the data configured and accessible so the webpage can pull information from it and push information to it.
* User interface to make appointments

## 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?*

* System need to be able to handle the traffic of customers
* System will need to update databases and optimize information as it increases
* System will need to purge backlogs of client data
* Update security as needed

#### 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 platform should be created using html/css for front end and may want to create a mobile website format
* Backend can be run through sequel and on whichever program is most accessible to employees of the business

#### 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?*

* User database will need to be robust and tailored to the expected traffic within a given timeframe
* User database can purge users older than a certain amount of time as this isn’t a very reusable service
* Admin should be able to see logs of what is happening, errors should throw up a flag to be reviewed
* The flags will show any patterns of a broken system

#### 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?*

* If the website is initially made so that admin has a way to modify the other users status it can be handled.
* IT admin can have a backdoor to code base to make needed changes
* Will need to create a backup of data and code before making changes, for safety

#### 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?*

* Can possibly use hashing for password checks, and website will not hold any user passwords, only hash
* Double check any user prompt areas to check for sql injections
* Have an option to enable 2fa
* Reset passwords with 2fa
* Encryption for user data

### 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 encrypt any user data entered
* The system will store user data for planning class
* The system shall alert appropriate staff based on user input

### 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.)?*

* Will need two interfaces, one for clients and one for staff
* Client interface will need a form to fill out and a way to select times for classes
* Staff interface will need a way to view client information and look at scheduled class times

### 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?*

* Assuming that the staff will be shown how to use the website properly and they will not be making errors that will possibly break website
* Assuming that clients will understand how to use website without proper teaching
* Assuming that they don’t want to hold onto user info for a prolonged time period

### 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 limitations will be regarding learnability as there isn’t a built in tutorial for the site
* Another limitation can be the limitation to database size based on nonfunctional requirements
* Also the adaptability will be limited without having a dedicated employee for the website

### 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