# 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 main purpose of this project is to create a system that allows students and their peers to be trained efficiently to help each other for their driving tests. Our Client, Liam, has hopes of finding out a way to implement online training, practice tests, and real-life training assistance from the Driver Pass staff.

### 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?*

* DriverPass wants the system to be available both on and offline. The team’s primary concern is the ability or lack there-of to save changes made when using the system offline. As a result, they are considering using cloud-based systems. Security is also a concern.

### 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?*

* accessible both online and offline
* track which driver is matched with what student, time, car, etc.
* Driver notes, essentially comments left for the client to see at any time (as well as the time taken of lessons)

## 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?*

* Cloud-Based
* Consistent performance limiting the interruptions to the average user experience.
* Keep the system updated with new features/patching bugs.
* Regularly scheduled maintenance/ downtime to implement improvements.
* 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?*

* Cloud-based service should ideally be ran on a web-based platform as to not limit its userbase/lock them into Windows/Linux/Apple/etc.

#### 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?*

* Usernames are no case-sensitive. (no point in having a “ZahlenJ” and a “zahlenj”
* Passwords are 100% case sensitive.
* Admin should be informed of a problem if it inhibits further use of the program/proves significant security risk that should be dealt with immediately.

#### 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?*

* Administrators should have SUPERUSER status which allows them the ability to add/remove/modify users as necessary without need to change code.
* Regular maintenance where all system updates and bug fixes are implemented to limit the downtime overall of the service. (and ideally condense the majority of them into a single day every week or two)

#### 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?*

* Username and Password are the bare minimum.
* Accounts are locked out for 2 hours if the wrong password is entered x amount of times.
* Email and phone based password recovery/reset options.
* Optional 2FA.
* Captcha Verification.

### 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 display which drivers and customers are paired together.
* The system shall register and reserve booking made by the customer along with their name/date
* The system shall have practice tests/quizzes/classes
* The system shall validate user credentials when logging in.

### 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.)?*

* Simple interface for average users. light customizability for usability.
* Gives users the ability to make appointments and sign up for specific classes/ and packages, etc
* Toggle for light/dark mode (easier on the eyes, user preference)
* Web and Mobile versions of the basic interface.
* Admin users have more complex UI. (for moderation purposes)
* Admin accounts have no access to making appointments, etc.
* Admin accounts have full access to modifying already existing appointments (cancellations/ changes/ etc)

### 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?*

* Price isn’t accounted for.
* I tried to be inclusive so users without a computer can also use their mobile devices.

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### 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?*

* Budget is definitely a biggie here especially dealing with cloud/web based services.
* Our time limit is also 5 months so we’re semi-limited with how long we can spend on any given feature and we also have to make sure its fully functional and ready to ship within that time.
* might not be able to have the BEST UI after getting the core functionality of the website down.

### 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.*

