# 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 purpose of this project is to help with a training app for drivers taking online. The client of this project is Liam, the owner of DriverPass. Liam wants their app to work in a cloud platform and reach users to help them with training to pass their driver’s license test.

### 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 should be a training platform along with being able to make reservations for taking a driving test. The major problem I see will be, being able to access the DMVs testing information. This can be tricky because their system probably has many safe guards that may be tricky to access. Cloud system for data storage, reservation system, tracking, UI development.

### 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?*

* This system should be able to provide training to users and allow them to schedule a test with a Driverpass employee. Building Diagrams for use cases, build class diagram, build UI, tie into DMV backend api, build business logic, test system, deliver.

## 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 system needs to run in a web-based environment. Data should be stored in a cloud system. The system needs to run at quality pace but be consistent in loading times. There are multiple systems involved in this process. The schedules process should update every 10 minutes or so that schedules drivers can be as accurate as possible. The data from the DMV to verify they are keeping up with standards should update every Friday evening. This allows for checks to happen and allow for the client to be in accordance with the DMV.

#### 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?*

* A platform was not discussed in the meeting. Web-based so we will need to make sure we review standards for Apple, Windows and Google to cover a wide range of web browsers. The backend will require a cloud platform. So we will need to decide on which one will work effectively with the web browsers we choose.

#### 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?*

* Users will be distinguished from each other with there sign in information. This will bne there email address they use to register with. This will make it simple for Ian and other admins to quickly find users who need help. The input will not be case-sensitive because emails are not. The system should alert an admin at any repeated login attempt. After three logins the user will need to reset the password and require an admin to reset it. This will help cut down on general user hacking attempts.

#### 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?*

* An admin panel should be created so that Liam and Ian will have tools for them to help with user modifications without having to know any code. We can incorporate this to help and make the administration of the app easier to modify as needed. As we make changes to the portal as an ongoing contract we have with them we will be able to make changes based on browser updates and changes so that the client does not need to worry about issues slowing down there platform. They need to this due to the whole business relying on this app to run as smooth as possible.

#### 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?*

* A user will need an email/password and a two step authentication code to log in. This will allow for a secure connection to the cloud for information. If a brute force attempt happens the user will receive notifications via text message or email. We will have in the email if the user did not request this change to contact the site admin via an email address we provide in the email. If a user forgets their password they will need to submit a request and once again be asked for a two step authentication to occur.

### 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 log in the user.
* The system shall validate connections to cloud and other systems.
* The system shall monitor time a user is logged in so they are not logged in for an extended time.
* The system shall check the schedule for the drivers every five minutes.

### 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 needs of the interface have a couple of modules. The first one for online test progress, information about the user, driver notes, any special needs, a picture of both the driver and student.
* Each user will need to access their information, test information(score, status), schedule for the drivers.
* While on a mobile device users will use a touch screen to enter and interact with the UI. While on a desktop or laptop device the user will use a mouse and keyboard to interact.

### 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?*

* One assumption is that they will have a smart phone. This app will not run on a device that is not an Apple or Android device. An assumption is that the users are younger, but they could be middle aged as well.

### 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?*

* One limitation will be relying on a cloud system to have consistent uptime and run flawlessly. Another limitation is the web host for the website to be consistent uptime.

### 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.*

Chart

Description automatically generated