# 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 create a system for DriverPass, a new ride-sharing company that wants to streamline the process of verifying and onboarding new drivers. The system should be able to automate the driver application process, validate driver information, and manage driver profiles.
* The client is DriverPass, and they want their system to be able to automate driver onboarding and verification, manage driver profiles, and provide analytics to help them optimize their driver acquisition and retention strategies.

### 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 automate the driver application process, which includes collecting driver information, verifying driver documents, and managing driver profiles.
* The problem they want to fix is the inefficiency and inconsistency of their current manual process, which is slow and error-prone.
* The different components needed for this system are a driver application form, document verification system, driver profile database, and analytics dashboard.

### 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?*

* The system should be able to automate the driver onboarding process and reduce the time and effort required to onboard new drivers.
* The system should be able to validate driver information and documents accurately and quickly.
* The system should be able to manage driver profiles efficiently and accurately.
* The system should provide analytics to help DriverPass optimize their driver acquisition and retention strategies.

## 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 should be web-based and should run on any modern web browser.
* The system should be able to handle a large number of concurrent users without performance degradation.
* The system should be updated at least once a month to ensure that it remains secure and up to date.

#### 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 system should run on any modern web platform, including Windows, MacOS, and Linux.
* The back-end requires a database to store and manage driver profiles and documents.

#### 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 between different users using unique identifiers.
* The input should be case-sensitive.
* The system should inform the admin of any problems as soon as possible.

#### 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?*

* The system should allow for changes to be made to user information without changing code.
* The system should be able to adapt to platform updates automatically.
* The IT admin should have full access to 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?*

* The user should be required to log in using a unique username and password.
* The connection between the client and the server should be secured using SSL.
* The account should be locked after a certain number of failed login attempts.
* The user should be able to reset their password using a secure and automated process.

### 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 provide a driver application form that collects driver information.
* The system shall validate driver documents, including driver's license and insurance documents.
* The system shall manage driver profiles, including personal information and document storage.
* The system shall provide an analytics dashboard that displays driver acquisition and retention metrics.

### 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 interface needs to be user-friendly and easy to navigate.
* The different users for this interface are drivers, admins, and analytics users.
* Drivers should be able to submit their applications and manage their profiles through the interface.
* Admins should be able to manage driver profiles, review driver documents, and access analytics through the interface.
* Analytics users should be able to access and view analytics data through the interface.
* The interface should be web-based and should be accessible through any modern 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 a basic understanding of how to use a computer and navigate a web-based interface.
* The IT administrator has sufficient knowledge and skills to manage and maintain the system.
* Users have access to a reliable internet connection.

### 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?*

* Limited budget for development and maintenance of the system.
* Limited timeline for the project completion.
* The system will initially only be available in English language.

### 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, timeline

Description automatically generated