# CS 255 Business Requirements Document Template

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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 the project is to provide driver training and on the road training. Our client is DriverPass.
* They want to improve the passing rate of driving tests for all of their customers.
* They want the app to be able to book reservations and have online classes for customers.

### 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 to give their customers a platform to book their driving reservations and view different courses front the website both online and offline
* They want customers to be able to choose between one of 3 different packages, and to be able to add or remove packages.
* They want the IT or owner to be able to disable different packages or create new ones.
* There needs to be profiles for customers, a profile for secretaries, a profile for IT maintenance, and a boss profile to manage other profiles and have full access to the program.
* Need to run off of a website
* Needs to be profile options for drivers, customers, and the secretary to help with reservations.
* Needs a main website page, also needs input pages for driver notes, lesson time, hour start and end.

### 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?*

* System must be able to book reservations to specific customers and specific drivers for a set date and timer
* System must track packages and how much time is left for each package, must also have traceable past trainings to show progress.
* Each training should have the input pages for that session attached. The customer, driver, and secretary should be able to view the input pages.
* Each test should say if it's passed, failed, or in progress. It should also say test name, time taken, score, and status.

## 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?*

* Driverpass should use a web based system that can utilize any browser such as chrome, firefox, safari…etc.
* The system should be frequently updated to remain secure and up to date on current systems.
* The website should be able to handle a large amount of concurrent users without performance issues.
* If the website is used widely enough it should be integrated into an application.

#### 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 website should be able to run on any current web platform including windows, mac, and linux. If one had to be chosen it should run on windows.
* The website requires a database to store and manage driver documents and profile information.

#### 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 website should use unique identifiers such as username with capitalization specific characters.
* The website should be able to detect and inform the admin of problems in the system such as a breach of privacy, login from a foreign area, system failures.

#### 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 website should allow the users to change information without requiring a change in the back-end.
* The website should also be able to register updates and automatically adapt to the changes. In case of issues IT should have access to the backend of the website to assist adaptability.

#### 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 have a unique username and password that is set when registering the account originally.
* The website should utilize SSL to establish a connection between the client and the server.
* After 5 failed login attempts the account should lock. The account password should be able to change by sending a link to the unique accounts verified email.

### 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 passwords unique to their usernames on the login screen
* The system shall validate driver documents such as drivers license and insurance documents
* The system shall provide an analytics dashboard that displays driver performance and grades.
* The system shall manage driver profiles which require personal information and secure document storage.

### 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 able to allow drivers to submit applications, sign in and manage their profiles, and access past quizzes/test information
* The interface should be user-friendly and easy to navigate
* Users should be able to access and view their unique analytics through the interface
* the interface should allow admins to manage driver profiles, review documents and access analytics.
* The interface should be able to access on all platforms including mobile.

### 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?*

* IT Admins have the ability and knowledge to manage and maintain the system
* Users have an understanding of how to use a computer and how to utilize an average website
* Users have access to a working computer and a reliable internet connection
* Users will utilize the website for the purpose of driving assistance

### 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 timeline for the project
* Website will initially be in only english
* Limited budget for development
* Limited staffing for teaching new drivers or managing the system

### 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.*