# 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 build a system for DriverPass, a company that provides driver training services. The client, DriverPass, wants their system to be able to provide online driver training classes and practice tests, as well as on-the-road training if desired. The system should allow for data access from any computer or mobile device, with the ability to download reports and work on them offline. The system should have security measures in place, including the ability for certain employees to reset passwords and block access. The system should also have tracking capabilities, allowing the company to see who made, modified, or cancelled reservations and to identify the driver, time, and car associated with each reservation. The system should also allow customers to make reservations online or in person, and should provide the option for customers to pay online or in person.]

### 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 their system to provide online driver training classes and practice tests, as well as on-the-road training if desired. The problem they are trying to fix is the need for better driver training, as many people fail their driving tests at the DMV. The different components needed for this system include:

1. A platform for delivering online driver training classes and practice tests.
2. A way for customers to make reservations for on-the-road training.
3. A way for the company to track which users are matched up with which drivers, times, and cars.
4. A way for the company to track who made, modified, or cancelled reservations.
5. Security measures to allow certain employees to reset passwords and block access.
6. A way for customers to pay for services online or in person.
7. A way for the company to access data from any computer or mobile device, with the ability to download reports and work on them offline.

### 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?*

When it is completed, this system should be able to:

1. Provide online driver training classes and practice tests.
2. Allow customers to make reservations for on-the-road training online or in person.
3. Track which users are matched up with which drivers, times, and cars.
4. Track who made, modified, or cancelled reservations.
5. Allow certain employees to reset passwords and block access.
6. Allow customers to pay for services online or in person.
7. Allow the company to access data from any computer or mobile device, with the ability to download reports and work on them offline.

To achieve these goals, the system design should include the following measurable tasks:

1. Design and develop a platform for delivering online driver training classes and practice tests.
2. Implement a reservation system that allows customers to make appointments online or in person.
3. Implement a tracking system to identify the driver, time, and car associated with each reservation.
4. Implement a tracking system to record who made, modified, or cancelled reservations.
5. Implement security measures to allow certain employees to reset passwords and block access.
6. Implement a payment system that allows customers to pay for services online or in person.
7. Develop a system for accessing data from any computer or mobile device, with the ability to download reports and work on them offline.

## 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 web-based and application environments and should be accessible from any computer or mobile device. The speed of the system should be fast and efficient. There is no mention of how often the system should be updated.

#### 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 various platforms such as Windows, Unix, etc. The back end does require a database to support the application

#### 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 will distinguish between different users by assigning different rights and roles to each user. The input is not mentioned as being case-sensitive. The system will inform the admin of a problem if it is deemed necessary for tracking purposes.

#### 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?*

* Changes to the user can be made by the IT admin without changing code. The system will adapt to platform updates by being able to access data online from any computer or mobile device. The IT admin will need full access to all accounts in order to reset passwords, block access, and modify 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 will need to log in using their account and provide the necessary information to access their data. The connection and data exchange between the client and server will be secured through an undefined method. If there is a “brute force” hacking attempt, the account will be blocked. If the user forgets their password, it will be reset by the IT admin.

### 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
* Allow the user to make reservations for driving lessons
* Identify the driver the customer is scheduled to go out with
* Track who made a reservation, who canceled it, and who modified it last
* Print an activity report to determine who is responsible

### 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 different users of the system are the owner, the IT admin, the secretary, and the customer. Each user will have different needs through the interface such as making appointments, cancelling appointments, and accessing reports. The user will interact with the interface through a browser or mobile device.

### 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?*

* For the system, we were not provided a budget. As a result, we're assuming that everything we'll need to develop the system will be in the budget. This involves working in a Linux environment as well as utilizing the cloud. We also assumes that we will have easy access to all of this technology.

### 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?*

* We have around five months to create this system and haven't been allocated a budget. More personnel to create the website, I believe, is a big barrier we now face. We need extra personnel to complete the website in the five-month timespan. As a result, I feel it is essential to take an agile strategy.

### 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.*

[Insert chart]

