# 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 client is DriverPass. A company that aims to sell education to driving students. They want to provide private driving lessons and practice tests for guests and pay for this service. The systems should allow a guest to reserve a lesson time using a created user account. They should be able to create, modify and cancel these lessons.

### 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?*

* There are too many people failing driving exams. This project aims to reduce failures by allowing practicing written tests and driving tests via scheduled appointments/exams. The customer should be able to pick from some predetermined packages. This should assign the user with an instructor, car, and their chosen time-frame.

### 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?*

* A measurable goal would be that a user should be able to make an account. Create, modify and cancel appointments for driving instructions. The system should be able to assign and track which guest is to be with which instructor, car, and time-frame.

## 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?*

* Web-based 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?*

* We need an internet browser/ device that can use the internet.
* There will need to be a dedicated server/server system to support internet traffic. could be serverless

#### 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?*

* Different users will have different emails associated with a username.
* if there's trouble logging in or a user cannot access a system/service they believe they should, they should contact an admin.

#### 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?*

* each user will have a user class which an admin can adjust/ modify
* The system will have maintenance periods for system upgrades and modifications.

#### 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 their username and password.
* The system can use end to end encryption.
* There will be a timer for too many failed login attempts.

### 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.”*

* Validate Credentials upon login
* record current and past package purchases.

### 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 user will be able to interact anywhere there is internet and internet access.
* The user will interact through an internet 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?*

* The users need a device that can support web pages
* The users need basic technology literacy to navigate the webpage. (use of mouse/keyboard or phone navigation)

### 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?*

* The system will only be able to support so many simultaneous users
* The system will need to periodically go down for maintenance

### Gantt Chart

