# 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 offers training for driving motor vehicles. The purpose is to be able to provide online courses and in-person driving instruction.

### **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?*
* The client has asked to build a system that enables customers to take online classes, practical tests, and schedule in-person driving lessons.
* The system should allow the user to purchase one of three static products that have varying level of access to the training and materials with the option by the client to be able to disable a product.
* If the product includes an allotment of hours for in-person driving with an instructor then the user should have the ability to make an appointment for a 2-hour session and the system will update the remaining hours available.
* Each 2-hour session should be able to be scheduled in-person, over the phone, or online. The session needs to include details about the user, driver, and car that is scheduled.
* The online user interface needs to include modules that show online test progress, user information, driver notes for each session, user special needs, driver photo, and student photo.
* The system should allow the client to download analytical data and view user/employee tracking.
* Security and functional requirements should be handled by the system with little technical intervention by the client. This includes secure interaction with the DMV’s API, remote access, deploying to a web server, and employee permission levels.

### **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?*
* Schedule, cancel, or modify driving appointments: online or by an employee.
* Access to system UI with user account information and online course lessons/tests.
* Purchase available product packages.
* Allow client remote access to download current analytics.
* Grant permission level access to employees based on their role.
* Employ security tracking of changes made by users and employees.

## 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 environment is a web-based application and work in a browser.
* Reservations and changes made will need to be accessible immediately.

#### 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 be accessible on a computer or mobile device.
* The system will need to access available DMV records online.
* System will need to utilize a cloud server to store system data.

#### 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?*

* System roles should include users, employees, and administrators.

#### 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?*

* Administrator accounts should be able to change or remove user role.
* Administrator accounts should be able to reset passwords.

#### 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?*

* User accounts need to have different roles of access and permissions.
* Users will have log-in credentials specific to their accounts.
* Changes in reservations should be tracked and made available in a report.
* Data and log-in security must be handled without client intervention.

### 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 create analytical reports.
* The system shall validate user credentials when logging in.
* The system shall create, cancel, and modify reservations for in-person driving lessons.
* The system shall allow purchasing and disabling of training packages.

### 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.)?*

* Different interfaces are required for users, employees, and administrators.
* The user interface should include online test progress, user information, driver notes, special needs notes, driver photo, and student photo.
* The driver needs an interface that allows them to input notes for each in-person driving lesson which includes lesson time, start hour, end hour, and driver comments.
* Another interface needed is an input form for users or employees to create an account.
* Employees and users should have a way of contacting each other through the platform.

### 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 must have an internet connection.
* Users must have access to a mobile device or computer.

### 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 must always be connected to the internet.
* The application must work on a low power devices such as a mobile phone.

### 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.*

