# 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?*

* This project is being designed and developed to create a comprehensive system for a driver training company. The project will be called DriverPass and will help the company to help students pass their driving exam. By providing necessary tools to help with on and off-road training as well as practice tests to help students prepare in the best way possible.

### 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?*

* This system is going to offer on-the-road training as well as practice tests, and online classes. Online and offline features will allow the users to access their information and data whenever they would like. With features such as managing a reservation or tracking finished or need to do activities. This will allow users to have freedom with their learning schedule while following all DMV rules and regulations.

### 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?*

* Offer on-the-road training sessions with experienced instructors.
* Online classes and practice tests.
* Users can modify, change, and cancel driving lessons.
* Track user activities with detailed reports.
* Data security for different user roles and access rights.
* Follow all DMV rules and regulations and stay up-to-date.
* Visually appealing and easy navigation user interface.

## 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?*

* System needs to handle multiple users without system degradation.
* Quick response time for user reports.
* Provide fast response time for user interactions.

#### 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?*

* Accessible through either a mobile device or a web browser.
* Needs to be compatible with most popular operating systems such as Mac, Windows, iOS, and Android.
* System needs to be cloud-based to help manage security and backend requirements.

#### 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 needs to accurately store and record user data such as reservations and test results.
* Test scores need to be precise and consistent.
* Case-sensitive username and password for accessing the site.

#### 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?*

* Allow user modifications without having to change code.
* Easily adaptable to DMV policy changes and rules.
* Removal or changes to lessons with minimal technical effort.

#### 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?*

* Securely store and transmit user data and personal information.
* Require user name and password to log in with two-step verification.
* Have appropriate access rights for different user roles, with the ability to block unauthorized access.

### 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.”*

* Provide practice tests and lessons.
* Validate user credentials when logging in.
* Allow for reservation bookings, cancelations, or modifications.
* Offer multiple driving lessons.
* Display completed and uncompleted tasks.
* Allow students to know who their driving instructor is.

### 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.)?*

* Users need to be able to contact support for DriverPass and get a timely response.
* Access progress reports, including ongoing tests and scores.
* The system needs to allow the use of most mobile devices and/or computers with a stable internet connection.

### 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 need to have basic computer skills and internet access.
* Users need to provide valid information during the registration process.
* Cloud-based technology to ensure reliability and scaling, with data backup.

### 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 need to allow for future additions to the initial system design.
* Roughly five months to build the system by using an agile approach.

### 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.*

*A screenshot of a calendar

Description automatically generated*