# 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 design and develop a comprehensive system for the clients at DriverPass, which should address their need for a better driver student training system. DriverPass goals is to offer online practice exams and on-the-road training to help students pass their driving tests while also focusing on reducing the failure rate of driver students, which is currently at 65%. The system will serve multiple parties, including students, administrators, instructors, and IT personnel. The primary goal is to provide an efficient platform for managing driving lessons, reservations, online classes, practice test and driver data.

### 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 requires a system that allows the students the ability to access online classes and practice tests to enhance their knowledge of rules and regulations of driving. The system should also facilitate scheduling and tracking of on-the-road training sessions with certified instructors. Another feature is the ability for students to reserve driving lessons online, specify their preferred date and time, and choose from different packages. Each users should have individual accounts, including personal information and preferences. Additionally, different user roles should be defined with varying levels of access and security measures to protect user data. The system should support online and offline data access to ensure flexibility for users. The system should maintain compliance with DMV regulations via updates from the DMV.

### 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?*

* The objectives of the client are to reduce the failure rate in driving tests this is solved by providing effective training. Further objectives include creating an easy to use platform for students, instructors, and administrators. Simplifying the process of scheduling driving lessons. Details of the software UX should accommodate specific users access from anywhere, online and or offline. The system must also be up to date with DMV regulations through automated updates. Also have significant security measures to protect user data. And finally, allow for customization of training packages and system modules.

## 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 should entail a web based platform which must be accessible via browsers both mobile and web versions.

#### 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 able to run on various platforms, including Apple, Unix, and other commonly used operating systems and a database system should be in place to support the application's backend operations across all the platforms.

#### 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 should accurately distinguish between different users and their roles. Input should be case-insensitive for user convenience. The system should promptly notify administrators of any errors, such as crash’s and security compromises.

#### 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?*

* IT administrators should be able to add, remove, or modify user accounts without requiring changes to the underlying code and the ability to do so should be managed by the admin. Lastly the system should adapt to platform updates seamlessly across multiple platforms.

#### 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?*

* Security should include but not exclusive to having a secure user login and password reset processes. Encryption of data exchanges between clients and the server. Additionally, have measures to prevent brute force hacking 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.”*

* The system shall validate user credentials when logging in. The system shall allow users to access online classes and practice tests. The system shall enable users to schedule driving lessons, specifying the date, time, and preferred instructor. The system shall maintain a database of drivers, instructors, and students with their relevant information. The system shall provide different user roles (e.g., administrator, instructor, student) with varying levels of access. The system shall allow users to view and print activity reports to track changes and reservations. The system shall integrate with the DMV for compliance updates and notifications. The system shall feature an online interface accessible through web browsers and mobile devices.

### 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 interface shall provide a user-friendly experience for students, instructors, and administrators. Students should be able to access online classes and practice tests through the interface. The interface shall allow users to schedule, modify, and cancel driving lessons online. The interface shall display progress in online tests, showing test names, time taken, scores, and status. The interface shall provide a form for entering student information. Users should be able to contact DriverPass through the interface.

### 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 have access to internet-enabled devices for system access. Users are familiar with basic web-based interactions. The DMV provides updates and notifications in a compatible format. IT administrators have the necessary technical knowledge to manage the system.

### 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 budget and resources for system development. Time constraints for project completion.

### 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]