# 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 DriverPass to address the need for enhanced driver training and preparation for driving tests at DMV offices. DriverPass aims to provide a solution that combines online practice exams and on-the-road training to improve the success rate of driving test candidates.

### 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 aims to solve the problem of individuals failing their driving tests at high rates. This issue can be due to inadequate training and preparation before the test. To address this problem, DriverPass wants to offer a comprehensive driver training system that includes; A user-friendly registration, Online Practice Exams, On-the-Road Training, Real-time Tracking and Reporting, and integration with the DMV and their systems and rules.

### 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 completed, the system must be easy to register for, able to host practice exams, schedule on-the-road training sessions, track progress, and follow all DMV rules and regulations.

To measure if the system can meet these goals, various tests must be run such as; testing the results of the practice exams to make sure they are accurate and fair, making sure scheduling information makes it to the DMV office or other road training facility, securing the network, ensuring that the real-time progress reports are consistently up to date and accurate, and making sure the system is compatible with DMV rules and regulations.

## 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 environments.
* It should provide quick response times for user interactions, support concurrent access, and be regularly 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, including Windows and Unix to better support all driving students no matter what they use to access this technology.
* It requires a database to support its functionality.

#### 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?*

* User identification should be precise, and the system should differentiate between different users using a username and password for individual accounts.
* Input is case-sensitive, and the system should inform the admin of any problems promptly.

#### 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?*

* The system should allow changes to user roles without changing the source code.
* It needs to adapt to platform updates, and the IT admin requires full access to change and update sections of the code.

#### 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 authentication is required for login.
* Data exchange should be secured using encryption.
* Brute force hacking attempts should result in account lockout, and a password reset feature should be available for users.

### 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 and prevent hacking.
* It shall host online practice exams, allow scheduling of on-the-road training sessions, provide real-time progress tracking, and integrate with DMV systems.

### 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 interface needs to cater to various users, including customers, the IT admin, and the secretary.
* Users should be able to register, schedule, and modify appointments through the interface, which should be accessible via both web browsers and mobile devices.

### 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?*

* It is assumed that users have internet access for online training materials, and customers can provide the required personal information for registration.
* It is also assumed that the DMV can provide necessary and timely updates and notifications.

### 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?*

Limitations may include the need for developer or system analyst intervention for adding or removing modules. Additionally, resource, time, budget, and technology limitations may apply.

### 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.*

