# 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?*

* Our consulting company aims to design and develop a comprehensive online system for DriverPass, a company dedicated to providing high-quality drivers’ education to students. This system will enable DriverPass to offer online classes, practice tests, and on-the-road training sessions, ultimately improving students' preparedness for driving tests and addressing the need for better drivers’ education.

### 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, founded by Liam, aims to revolutionize driver training by addressing the high failure rate in driving tests at the Department of Motor Vehicles (DMV). Recognizing that inadequate preparation and a lack of practical experience contribute to this issue, DriverPass envisions a comprehensive system that integrates online learning, practice tests, and on-the-road training with qualified instructors. This system will provide students with the knowledge, skills, and confidence necessary to pass their driving tests and become safe, responsible drivers.

To achieve this goal, DriverPass requires a system with several key components. An online learning platform will deliver course materials, videos, and interactive modules covering driving rules, regulations, and safe driving practices. A database of practice tests will simulate the DMV driving test, allowing students to assess their knowledge and track their progress. A scheduling system will enable students to book driving lessons online, selecting their preferred date, time, and instructor. Additionally, the system will need to manage instructor schedules and availability, track student progress, and generate reports for administrators. Security measures will be implemented to protect user data, and the system will be designed to be accessible on various devices. By integrating these components, DriverPass can offer a comprehensive and effective driver training program that addresses the root causes of driving test failures and contributes to safer roads.

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?*

* Online Learning: Develop an online learning platform where students can access course materials, videos, and interactive modules covering driving rules, regulations, and safe driving practices.
* Practice Tests: Create a database of practice tests that simulate the DMV driving test, allowing students to assess their knowledge and identify areas for improvement.
* Scheduling: Implement a scheduling system that allows students to book driving lessons online, selecting their preferred date, time, and driving instructor.
* Instructor Management: Develop a module for managing driving instructors, including their schedules, availability, and performance tracking.
* Progress Tracking: Implement a system to track student progress in the online course and practice tests, providing feedback and personalized recommendations.
* Reporting: Generate reports for DriverPass administrators, detailing student performance, instructor performance, and overall system usage.
* Security: Ensure the security and privacy of user data, including personal information, payment details, and test results.
* Accessibility: Design the system to be accessible on various devices, including desktops, laptops, tablets, and smartphones.
* Scalability: Build a scalable system that can accommodate future growth and expansion of DriverPass's services.

## 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

### 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.”*

* [Insert text]

### 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.)?*

* [Insert text]

### 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?*

* [Insert text]

### 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?*

* [Insert text]

### 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]