# 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 DriverPass system is designed to be a comprehensive online platform for students preparing for their driving tests. It will offer a combination of online practice exams and the ability to connect with qualified driving instructors for on-the-road training. The goal is to equip students with the knowledge and practical skills necessary to confidently pass their driving tests on the first.

### 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 was founded due to the high failure rate of driving tests, with over 65% of students failing. Their research suggests that relying solely on studying past tests is an inefficient approach. DriverPass aims to bridge this gap by offering a more comprehensive learning.

### 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?*

* Increase student success rates on driving tests.
* Provide a user-friendly platform for online practice exams.
* Offer students the ability to connect with qualified driving instructors for on-the-road training.
* Offer a secure and reliable platform for student data storage and communication with instructors.

## 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 should be responsive and provide fast loading times for both online exams and access to training resources.

#### 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 through web browsers on a variety of devices, including desktops, laptops, and tablets.

#### 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?*

Online exams should accurately reflect the content and format of actual driving tests.

#### 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 be adaptable to incorporate changes in driving test regulations or curriculum updates.

#### 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?*

The system should adhere to industry standards for data security, protecting student personal information and communication with instructors.

### 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.”*

* Extensive library of practice exams covering all aspects of driving tests.
* Detailed feedback reports for practice exams, highlighting strengths and weaknesses.
* Search functionality for instructors based on location, area of expertise, and availability.
* Online payment processing for booking lessons with instructors.

### 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.)?*

* User-friendly interface for student registration and account management.
* Intuitive design for accessing and completing online practice exams.
* Secure platform for communication between students and driving instructors (e.g., scheduling lessons, sending messages).

### 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?*

* Students have basic computer literacy skills and internet access.
* Driving instructors are qualified professionals with valid licenses and insurance.

### 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 does not replace the need for mandatory in-person driving lessons with a certified instructor.
* The system may not cover all regional variations in driving test regulations.

### 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.*

