# 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 system is to give DriverPass a platform that helps students prepare for their driving tests. The system will allow students to practice written exams online and also schedule driving lessons with certified instructors. The goal is to help more students pass the driving exam on their first try by giving them access to the right training and resources.

### 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 found that many students fail the driving test because they only study old test questions. There are not many full systems that combine online learning with real driving lessons. To fix this, DriverPass wants a system that includes online practice tests, learning materials, a scheduling system, and a way to track students’ progress.

### 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?*

* Help students pass their driving tests on the first try
* Provide online practice exams and learning modules
* Allow students to schedule and manage driving lessons
* Keep information secure and only allow access based on user role
* Give instructors and staff the tools they need to support customers
* Keep all student progress saved and easy to access

## 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 must run smoothly and load pages quickly. It should support a high number of students using practice tests at the same time. The schedule system should update instantly so appointments don’t get double booked.

#### 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 work in any browser and on phones, laptops, and tablets. It should also be available anytime so students can learn from home. It will use a cloud-based server to stay available and reliable.

#### 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?*

Scheduling must be accurate with no overlapping appointments. Student progress and scores must be stored correctly, and the learning content and questions should be updated by DriverPass management when needed.

#### 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 easy to update in the future. New lessons, more instructors, or added test topics should be able to be added without redesigning the whole system.

#### 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 logins and student records must be secure. Only approved users can access private data like scores, personal information, and payment details. The system must follow safe password standards and encrypt personal information.

### 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.”*

* Students can create accounts and log in securely
* Students can take online practice driving exams
* Students can schedule and cancel driving lessons
* Instructors can update student progress after lessons
* Management users can edit lesson packages and pricing
* The system will store all user and testing data in a database
* Automatic alerts when a student schedules or changes appointments
* A dashboard for students to see their progress and lesson history

### 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.)?*

There will be three main types of users:

1. **Students**
   * Create an account and log in
   * Take practice tests and view results
   * Schedule driving lessons
   * Track learning progress
2. **Instructors**
   * Log in to view assigned students
   * Update student progress after lessons
   * View personal schedule
3. **Management / Admin**
   * Manage instructors and schedules
   * Update training materials
   * View student performance and system data
   * Add or update pricing and lesson packages

The interface must be simple to use and easy for anyone to understand.

### 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 internet access and a device to access the system
* Payment processing will be handled by a trusted third-party vendor

### 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?*

* [DriverPass only offers driving lessons in certain locations
* The system relies on instructor availability and scheduling rules

### 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 graph with multiple colored bars

Description automatically generated with medium confidence