# 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 better prepare students for driving tests by offering online practice exams and on-the-road lesson scheduling. It aims to reduce high failure rates by providing comprehensive training solutions for students and operational support for staff.

### 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 identified that a majority of students fail their driving test by solely relying on studying past exams. There are limited tools that offer both engaging practice and actual lesson scheduling. This system leverages web/cloud-based components to create more effective test preparation and a unified environment for appointments and progress monitoring.

### 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 pass rates for driving tests.
* Provide seamless online booking, modification, and cancellation of driving lessons.
* Enable robust tracking of student progress and provide real-time business reports.
* Ensure secure, auditable user management for all roles.

## 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?*

* Fast, reliable operation supporting concurrent online users for both scheduling and test tracking.

#### 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?*

* Deployed on a cloud/web platform, compatible with current browsers and backend IT infrastructure.

#### 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?*

* Enforce user and data integrity; every scheduled event and status change is logged precisely

#### 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?*

* Allow for easy addition of new lesson types, packages, or features; support future scaling.

#### 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?*

* DriverPass identified that a majority of students fail their driving test by solely relying on studying past exams. There are limited tools that offer both engaging practice and actual lesson scheduling. This system leverages web/cloud-based components to create more effective test preparation and a unified environment for appointments and progress monitoring.

### 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.”*

* User account creation, login, and password management.
* Lesson scheduling (date, time, driver, car, package) with online and staff-assisted options.
* Booking, cancellation, and editing of appointments.
* Progress tracking for online practice exams and completed road lessons.
* Integration with DMV database for rule, policy, and question updates.
* Exportable business reports for management and IT.
* Management of lesson packages and assignment of specific drivers and cars.

### 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.)?*

* Students: Web portal for account management, test taking, and lesson booking.
* Secretary/Staff: Dashboards for appointment, call, and lesson logistics.
* IT/Management: Admin control panels for accounts, schedules, reports, and updates.

### 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?*

* All typical users have browser and internet access.
* Regulatory changes and system data syncs are up to date.
* Payment processors and DMV APIs are functional and accessible.

### 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?*

* Editing data offline is not supported, except for exporting reports.
* Business operations may be paced by the availability of drivers, cars, lesson packages.
* Some integrations and features depend on external providers (for example, DMV).

### Gantt Chart

A graph with different colored rectangles

AI-generated content may be incorrect.