# 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 an integrated web-based system for **DriverPass**, a company aiming to streamline the driver’s education and licensing process. DriverPass wants to make it easier for users—particularly busy students—to prepare for and pass their driver’s test by offering online learning materials, practice tests, and scheduling capabilities for in-person driving lessons and exams. The consulting company’s goal is to create a system that connects students with instructors, offers engaging and effective online study tools, and simplifies the path to obtaining a driver’s license.

### 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DriverPass has identified a gap in the current driver’s education system, which they describe as outdated and fragmented. Many students find the process of preparing for their license time-consuming and stressful due to poor coordination between studying materials, test scheduling, and on-road instruction. The company’s solution is to offer a centralized, user-friendly online platform that combines:

* Access to online study guides and practice exams
* The ability to schedule in-person driving lessons
* Automated tracking of a student’s learning progress
* Support in preparing for and passing the DMV written and road tests

This holistic approach is intended to improve pass rates, reduce stress, and modernize driver’s education.

### 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?*

The system should meet the following measurable objectives:

1. **User Registration and Account Management**
   * Users should be able to create and manage their personal accounts (students, instructors, and administrators).
   * The system should support secure logins and account recovery options.
2. **Online Learning Modules**
   * Students should have access to interactive learning materials and practice tests.
   * The system should track user progress through the learning modules.
3. **Scheduling System**
   * Students must be able to view available time slots and schedule in-person driving lessons.
   * Instructors should be able to manage their availability and view student bookings.
4. **Performance Tracking**
   * The system should track test scores and lesson completion for each student.
   * Instructors and administrators should be able to monitor student readiness for the official DMV test.
5. **Administrative Tools**
   * Admins should have the ability to manage users, oversee scheduling, and generate reports on system usage and student success rates.
6. **Communication Features**
   * The system should include messaging or notification capabilities to alert students of upcoming lessons or module updates.

Each of these objectives supports DriverPass’s broader goal of transforming driver’s education into a more accessible, efficient, and effective experience for users.

## 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?*

* System must support concurrent user sessions, responsive design for mobile/desktop access.

#### 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?*

* Web-based, cloud-hosted system with browser compatibility.

#### 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?*

* Accurate scheduling, matching of customers to available drivers, and precise tracking of test scores and session times.

#### 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?*

* Ability to disable outdated packages and accommodate future DMV rule 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?*

* Role-based access (admin, IT, secretary, student), activity logs, secure payment information handling.

### 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 registration with personal and payment information
* Schedule driving sessions online or by phone
* Reset password functionality
* Ability to track lesson history, driver notes, and test progress
* Interfaces for secretary and management to view and edit records
* Notification system for DMV updates

### 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.)?*

* Web-based dashboard
* Online forms for appointment scheduling, contact, and student info input
* Tables showing lesson times, test scores, driver comments
* Admin dashboard for tracking system activity

### 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 access to internet-enabled devices
* DMV provides a way to push updates to DriverPass
* Company staff can assist with manual entries

### 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?*

* No built-in module for fully customizing learning packages by non-developers
* Offline data access is view-only (no updates)

### 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 schedule of a project

AI-generated content may be incorrect.*