# 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 client is DriverPass. The purpose is to create a system that gives students online practice tests, online classes, and lesson scheduling so they can be better prepared for DMV exams. The system should let customers sign up, schedule lessons, track test progress, and get DMV updates.

### 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?*

* Problem: More than 65% of students fail the DMV test because they only study past exams.
* DriverPass wants to give training options (online and in-person) with packages that include tests, driving practice, and study materials.
* Needed parts: online practice exams, scheduling, driver/car matching, payment system, account management, and reports.

### 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?*

* Let students register and schedule lessons online.
* Offer multiple training packages with different levels of service.
* Make sure the system is web-based, safe, and easy to use on computers or mobile.
* Give IT staff and admins tools to manage users and reset accounts.
* Provide reports on reservations, student activity, and test results.
* Keep DMV materials up to date automatically.

## 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?*

* Runs on the web through cloud hosting.
* Must work for many users at the same time without slowing down.
* DMV updates must sync quickly.

#### 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?*

* Works on Windows, Mac, Linux, and mobile browsers.
* Needs a database for accounts, lessons, and activity.
* Must allow reports to be exported into Excel.

#### 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?*

* Must separate roles: students, secretary, IT admin, owner.
* Track all changes like who made or canceled lessons.
* Report failed logins or suspicious activity.

#### 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?*

* Admin can enable or disable training packages without code changes.
* Easy to add new features later (new packages or reports).
* IT officer has full control.

#### 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?*

* Requires login with password reset options.
* Must use secure connection.
* Lock account after too many failed attempts.
* Give different access rights to users depending on role.

### 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.”*

* The system shall allow students to register with personal and payment info.
* The system shall allow customers to schedule, cancel, or change lessons.
* The system shall assign drivers and cars to scheduled lessons.
* The system shall allow secretaries to schedule lessons by phone or in person.
* The system shall keep activity logs and reports of reservations.
* The system shall provide online tests and show student progress.
* The system shall notify admins about 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.)?*

* Easy to use on web and mobile.
* Students: sign up, pick packages, schedule, take practice tests, check progress.
* Secretary: input customer info, schedule lessons by phone.
* IT/Admin: reset accounts, manage users, enable/disable packages.
* Owner: see reports and 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?*

* Customers have internet and modern devices.
* DMV provides updates regularly.
* Staff using the system have basic computer knowledge.

### 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?*

* Customizing packages needs a developer (not included in this version).
* Limited time and budget mean fewer extra features.
* Cloud hosting depends on outside provider for backups and uptime.

### 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 gantt chart with text and icons

AI-generated content may be incorrect.*