# 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 a comprehensive, web-based system for our client, Driver-pass.
* Driver-pass wants the system to manage their entire business operation, which provides online driver's education and on-the-road driving training to help customers pass their DMV tests.
* The system must enable online course access, practice exams, scheduling for driving lessons, user management, and detailed activity tracking.

### System Background

*What does Driver-pass want the system to do? What is the problem they want to fix? What are the different components needed for this system?*

* Driver-pass identified that too many people fail their driving tests at the DMV due to inadequate preparation and training, creating a market opportunity for better driver education services
* The company wants to provide a in-depth solution that includes online classes with practice tests, on-the-road training with professional instructors, and in-person lessons that cover DMV rules and policies
* The system needs a customer management component to handle user registration, account creation, and profile management with personal information and pickup/drop-off locations
* A scheduling component is required to manage driving lesson reservations, track instructor and vehicle assignments, and handle appointment modifications and cancellations
* An online learning component must deliver practice tests, track progress and scores, maintain test status (not taken, in progress, failed, passed), and provide access to training materials
* The system requires an administrative component for user management, activity tracking, report generation, and integration with DMV updates for current rules and policies
* A payment processing component is needed to handle customer credit card information and manage different training package purchases

### 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 allow customers to create accounts and register for training packages online with complete personal information including contact details and payment information

* The system should provide three distinct training packages (6-hour, 8-hour, and 12-hour options) with the ability to disable packages as needed without code modifications
* The system should allow customers to schedule, modify, and cancel two-hour driving lesson appointments online or through office staff, with real-time availability tracking
* The system should maintain a fleet management system tracking 10 cars, their assigned drivers, and lesson scheduling to prevent double-booking
* The system should deliver online practice tests with scoring, progress tracking, and status monitoring (not taken, in progress, failed, passed) for each customer
* The system should provide role-based access control for administrators (full system access), IT officers (account management and resets), secretaries (appointment scheduling), and customers (personal account access)
* The system should maintain comprehensive activity logs tracking all user actions including reservations, cancellations, modifications, and test completions with timestamps and user identification
* The system should generate downloadable reports in Excel format for business analysis and provide printing capabilities for activity tracking
* The system should integrate with DMV systems to receive automatic notifications of rule changes, policy updates, and new sample questions
* The system should include password reset functionality and account security measures including protection against brute force attacks
* The system should operate as a cloud-based web application accessible from any computer or mobile device with internet connectivity
* The system should store and display driving instructor comments and lesson details in an organized format showing lesson times, duration, driver assignments, and feedback

## 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

### 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.”*

* [Insert text]

### 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.)?*

* [Insert text]

### 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?*

* [Insert text]

### 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?*

* [Insert text]

### 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.*

[Insert chart]