# 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 address the need for comprehensive driver training to reduce the failure rates in driving tests at local DMVs. DriverPass aims to provide a solution that would include both online and in-person training components.
  + Online courses and practice tests that align with the local DMV testing material.
  + In-person, on-the-road training sessions.
  + Personalized feedback accessible to students from their instructor.
* **Client:** DriverPass
  + Contacts: Liam (Business Owner) & Ian (Information Technology Officer)
* **MVP Features/Capabilities of System**
  + Web/Cloud based accessibility on any device with internet capabilities.
  + Low maintenance requirements from the client side.
  + Ability to download data and view reports offline.
  + User roles with different permissions:
    - Ian to have super admin permissions.
    - Secretary and other employees to have limited permissions based on their roles.

### 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 wants the system to provide comprehensive driver training, including both online and in-person components, to address the high failure rates in driving tests at the local DMV. The system should facilitate:
  + Online course delivery and practice tests.
  + Scheduling and management of in-person driving sessions.
  + User registration and authentication with password reset functionalities.
  + Employee/Driver information and schedule management that will seamlessly allow users to schedule their sessions and be automatically assigned to one of ten drivers and their assigned vehicles.
    - Starting availability
      * 10 drivers
      * 10 vehicles
    - Scheduled Lessons Time:
      * Two hours per session.
  + System allows manual entry of user’s information to create accounts via call or visit to the office for registration.
  + System allows users to input information online to register for an account, including first and last name, phone number, address, email address, etc.
    - Need to implement a product page that includes packages and pricing for each.
    - Setup secure payment service. (Get clarity from client on storing clients credit card information.)
      * More ethical to use a payment service that will not require the client to store users’ payment info.
  + Integration of the system with the DMV for updates on rules, policies, and sample questions.
  + Notifications log of any updates the DMV makes to rules, policies, and sample questions sent to the client.
  + Secure data handling to prevent redundancy and ensure data integrity.

### 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?*

* Reduce the failure rates of driving tests by providing comprehensive and effective driver training.
* Enhance user satisfaction and engagement with user-friendly interfaces and personalized feedback mechanisms.
* Ensure seamless scheduling and management of driving sessions for both users and administrative staff.
* Maintain data security and integrity to protect sensitive user information.
* Facilitate integration with the DMV for timely updates on rules, policies, and sample questions.
* **Measurable tasks:**
  + - Implement online course delivery platform with interactive content and practice tests.
    - Develop scheduling and appointment management system with automated confirmation and reminder functionalities.
    - Establish secure user authentication and permission management.
    - Integrate the system with the DMV for updates and notifications.
    - Conduct thorough testing and quality assurance procedures to ensure system functionality and reliability.

## 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]