# 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?*

DriverPass and their representative owner Liam have asked us to develop a system. The purpose of the system is to provide a comprehensive driver training platform that helps students prepare for their driving tests at the local Department of Motor Vehicles (DMV). The system will offer online practice exams, on-the-road training scheduling, and user account management for a seamless learning experience.

### 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 aims to address the lack of effective driver training by offering a holistic solution to customers. The system will facilitate access to online classes, practice tests, and on-the-road training sessions to increase the pass rate of driving tests.

*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?*

* Improve the pass rate of driving tests to enhance customer success and satisfaction. This should be tracked using the drivers scores on the educational materials and the testing done by the driving instructors.
* Offer an intuitive and secure online platform accessible from any computer or mobile device.
* Provide a flexible package system that accommodates different levels of training and future customization.
* Maintain compliance with the DMV by staying updated with changes in rules, policies, and test questions.

## 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?*

* The system should be run using cloud hosting to manage backup, security and server requirements.
* The system should be fast enough to manage about 20 concurrent users now and scale if necessary for future expansion
* The system needs to update in real time especially for scheduling in order to prevent conflicts.

#### 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?*

* The system online platform should be accessible on major web browsers and mobile devices.
* The system should utilize cloud hosting to handle backup, security, and technical aspects.
* The system should run on all major platforms including Windows, Mac, Unix, and Mobile.

#### 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?*

* Practice exams should accurately reflect the format and difficulty level of official DMV tests or at least scale to that level over time.
* The system should maintain accurate and up-to-date student records and progress.

#### 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?*

* The system should allow for future customization and addition of new features and packages.
* The system should be capable of receiving updates and notifications from the DMV.
* The system should be capable of adding removing and updating user information without changing code.
* The system IT administration access needs to be able to control all facets of the system in order to sufficiently solve any issues clients or staff may have

#### 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.”*

The system shall:

### Validate user credentials when logging in.

### Provide online practice exams reflecting the format and difficulty level of official DMV tests.

### Enable students to schedule on-the-road training sessions with instructors and cars.

### Allow users to modify or cancel driving lesson appointments.

### Maintain accurate and up-to-date student records and progress.

### Provide clear progress tracking for completed and ongoing practice exams.

### Display driver notes, lesson times, and comments left by instructors.

### Allow for future customization of packages and addition of new features.

### 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.)?*

* The interface should be user-friendly and accessible to different user roles, including students, the owner (Liam), IT officer (Ian), and the secretary. Each user should be able to manage their account and schedule lessons easily. The interface should be accessible through both mobile devices and web browsers.

### 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?*

* Practice exams will be provided in collaboration with the DMV for accuracy and compliance.
* On-the-road training will be conducted by qualified driving instructors.
* Sufficient resources will be available for handling user traffic and data storage.

### 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?*

* The system cannot guarantee a 100% pass rate as individual performance may vary.
* Future customization of packages may require developer or system analyst intervention.
* The system's development is subject to resource, time, budget, and technology constraints.

### 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.*

