# 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?*

* For this project, our client DriverPass wishes to create a system that allows them to teach and train people to drive.
* DriverPass offers three packages with increasing benefits and different amounts of two-hour driving sessions.
* The system will be used by Liam the boss, Ian the IT officer, Liam’s secretary, and the end-user driving student.

### 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 to be able to download data, edit it outside the system, and reupload it.
* Ian from Driver Pass wants there to be several levels of security based on user roles.
* Liam wants tracking so he can see when data is uploaded or changed.
* Reservations contain student information, driver information, car details, and date.
* When a customer loses their password they can request to have it reset.
* Customers can make appoint by phone or online.
* The system will run on a cloud-based computing system with built-in backups and security.
* The system needs to send DriverPass a notification when DMV rules and requirements change.
* The system will include a driver notes section with a start, end, and total time, and driver comments.
* The system will include a student details page that can be edited by the customer.
* The system will include a page with the ability for DriverPass to contact the student.
* Liam wants to have the ability to remove, create, or change any of the packages offered, but we will worry about incorporating that in a previous build. Instead, we will incorporate a way that allows him to disable any packages he doesn’t want to use.

### 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?*

* Each customer can make a reservation.
* Each customer can cancel or modify their reservation.
* Each reservation contains first and last name, address, phone number, state, credit card details, and drop-off location and pickup location.
* The interface should look like the example Liam created.

## 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 will run in a web-based environment.
* The system needs to remain up to date with DMV requirements
* The system will update when a user makes an appointment change

#### 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 will run on a cloud-based platform.
* The system requires access to the DMV system.
* The system will require a database for customers and schedules.

#### 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?*

* Each student will have an account with an individual password.
* Customers can request to have passwords reset if it is incorrect.
* Duplicate names are not allowed.

#### 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?*

* Appointments can be changed after being created.
* Customers can change details on their profiles.
* IT will need access to accounts and passwords.

#### 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?*

* Passwords are created by each customer to access their accounts.
* Each account has restricted access based on their role.
* Data to and from customers will be protected with cryptography.
* Passwords should be limited to ten attempts.
* If a user forgets their password, they can request a reset.

### 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.
* The system shall allow customers to create accounts.
* The system shall allow customers to make reservations for driving lessons.
* The system shall send a notification when a user changes and appointment.
* The system shall send a detailed report of appointment changes to Liam.
* The system shall send a notification when DMV requirements change.
* The system shall allow users to pick between three packages.

### 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 must show test progress.
* The interface must have a section of changeable customer details.
* The interface must have a photo of the student.
* The interface must have a photo of the driver.
* The interface must have a spot for driver comments.
* Customers can interact with the interface through the web.

### 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?*

* Each student will have one driver.
* Users will be able to access the system from most web browsers.
* The system will always be available.

### 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 must meet federal guidelines for software.
* The system will be developed between January 22nd and May 10th.

### 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.*

