# 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?*

* **To help train more students for upcoming driver tests**
* **DriverPass is the client**
* **System needs to have Online practice tests and Classes**
* **System needs to have reservation and appointment system for Driving Classes**

### 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 help students practice and test for upcoming driving tests at the DMV**
* **DriverPass believes there is a void market for DMV practice testing and On-Road training this system will help students train for the DMV Tests.**
* **Components Include: Security, Online use, Tracking, Appointments, Reservations, Online Classes, Practice Tests, DMV Compliance Notifications for DriverPass**

### 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?*

* **Appointments and Reservations**
* **On-Road Testing Registration**
* **Different Package options**
* **Online Classes**
* **Practice Tests**
* **DMV Information**

## 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?*

* **Average Load Times for Users**
* **Feedback provided to Users**
* **Regular monthly updates**
* **Cloud environment**

#### 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?*

* **Systems should run on all platforms and browsers**
* **Google, Firefox, Safari**
* **Database Required**
* **Web Server Required**

#### 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?*

* **Separate login sections for customers and employees**
* **Case-sensitive Password**
* **Systems Problems sent to Admin**

#### 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?*

* **User changes will be done in the backend**
* **System should adapt to any platform**
* **IT Admin will have access to all servers**

#### 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?*

* **Password required**
* **Two-Factor Authentication will be provided**
* **User lockout after 3 failed password attempts**
* **Forgot Username/Password Button**

### 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 will verify the user's username and password during the login process.**
* **- The system will identify the user type as either a customer or an admin.**
* **- The system will provide an option for users to reset their passwords if necessary.**
* **- The system will permit five login attempts before locking the user out and alerting the admin.**
* **- The system will create user accounts using the provided user information.**
* **- The system will enable access from any online location.**
* **- The system will showcase various package options for customers to select from.**
* **- The system will allow customers to choose a package for purchase.**
* **- The system will enable the admin to deactivate packages that have reached capacity.**
* **- The system will monitor which user is assigned to a specific driver, time, and vehicle.**
* **- The system will interface with the DMV to receive updates on new information.**
* **- The system will present customer details, test progress, and current status.**
* **- The system will show notes from drivers.**
* **- The system will indicate lesson duration, start time, and end time.**
* **- The system will display photos of both the driver and the student.**
* **- The system will grant customers access to online educational resources.**

### 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.)?*

* **User will interact with browsers online on computers and mobile devices**
* **Users include customers and employees**
* **Customers should see**
  + **Login Page**
  + **Home Page**
  + **Test Scores**
  + **User Info/account info**
  + **Driver notes**
  + **Package listings**
  + **Educational Tools**
  + **Contact page**
* **Admin Should see**
  + **Customer information**
  + **Selected Packages**
  + **Add/Remove Packages**
  + **Customer/Driver matchups**
  + **Password reset controls**

### 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?*

* **24/7 Access**
* **Users must understand how to use the website completely**
* **Admins must understand how to use website completely**
* **Customers show up on time for lessons**
* **Drivers show up on time for lessons**

### 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?*

* **10 Cars must be well maintained and ready to use**
* **Any delays or interruptions must be updated on website**
* **Users may have outdated technology**

### 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 screenshot of a gantt chart

Description automatically generated*