# 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?*

* Client: DriverPass
* Since there are very few tools for driver exam assistance, DriverPass wants to create one.
* Will be a website that will incorporate practice exams, classes, and appointment capability for on the road practice.

### 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?*

* The company wants to be able to assist people in order for them to pass their driver’s exam
* This would be accomplished through practice exams, classes, and the ability to schedule on the road training.
* The system would be accessible from anywhere with an internet connection.
* The system would be secure for users
* The system needs to track all reservations, cancellations, and modifications to on the road training appointments.

### 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?*

* Fully functional website that a customer can use to book, modify, and cancel on the road training.
* Users can take practice exams and classes on the website.
* Give designated associates the ability to make changes or improvements.
* Object models, process models, and UML diagrams should be utilized for visualization of the system.
* An OS and programming languages need to be chosen.

## 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?*

* Cloud based
* Updated frequently
* Updated whenever DMV requirements change
* Needs to run on any OS
* Fast response time

#### 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?*

* Should run on all browsers (Microsoft Edge, Chrome, Safari, etc)
* Accessed by mobile devices and easy to read
* Database required for information storage

#### 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?*

* User identified by ID numbers , login names, and password
* Case sensitive passwords for security
* Incorrect input restrictions after multiple wrong input by user. Admin also notified

#### 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?*

* System should allow for platform updates from OS
* IT admin should have the capability to view all user information
* IT admin can hide course packages if needed
* IT admin denied access to reading and writing of source code

#### 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?*

* Username and password required on each login
* Two-step authentication implemented
* With a brute force hacking attempt, the system can block the associated IP address
* User can request password reset
* Secure connection between client and server
* With multiple failed user login attempts, users account is locked

### 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
* The system shall track customer progress and supply results to customer and administrators
* The system shall notify admins of any DMV requirement updates
* The system shall notify admins and instructors of any changes to bookings and schedules
* The system shall allow customers to modify booked appointments

### 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.)?*

* Will display online test results and progress, instructor and customer information, driver notes, special needs, and instructor and student photos
* Used by customers, employees and clients
* Customers can view information, schedule lessons, and take tests. Instructor can monitor and update information
* Accessible on all platforms

### 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?*

* Customer capability to upload photo
* All users have high-speed internet access and updated browsers
* Server can provide sufficient bandwidth to support any number of users

### 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?*

* Customer must have internet access
* System is browser based
* System needs power at all times
* Third party cloud based system

### Gantt Chart

A screenshot of a computer

Description automatically generated with medium confidence