# 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 is DriverPass
* Needs a system to schedule and track reservations made with specific drivers and select different price packages.

### 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?*

* Login screen
* Online and offline capabilities
* Varying role access
* Activity tracking
* Reservation scheduling and display
* Package selection with enable and disable capabilities
* DMV policy updates
* Cloud servers

### 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?*

* Display login screen with username and password
* Password reset available and automatic
* User data with first and last name, address, phone number, state, and credit card information
* The ability to schedule and reserve one of ten drivers using one of three packages
* Main page displaying online test progress, user information, driver notes, special needs, and photos of both current driver and student
* A tracking report for any edits done
* Varying rights and roles for all users including customers

## 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?*

* This is a web-based project and will need to work on all major internet browsers
* The application will need to run on any operating system via browsers
* Provide response time of 30 seconds or less
* Updated as needed or when receiving new updates from the DMV

#### 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?*

* Windows operating system would be best for the system
* Back end will require at least one database for course materials, user tables and profiles, relevant DMV data, billing information, and appointment 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?*

* Unique user ID numbers, login names, and passwords will be used to distinguish different users
* ID number should be assigned by the system and is unchangeable
* Login name and password set by user and changeable as needed
* Login name should not be case sensitive, but the password will be
* IT admin should receive an email notification within 5 minutes of any problems

#### 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 provide a way for admin to add, remove, or modify users without changing any source codes
* The server system should be able to download and install updates received from Microsoft
* IT admin should have administrator access to system
* IT admin should be able to see everything about users and administrator accounts
* IT admin should be able to hide or display course packages offered by the company

#### 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?*

* Users, both admin and customers, must log in through the website providing their username and password
* Secure connection established by use of SSL encryption
* Lock accounts for 10 minutes after 5 unsuccessful login attempts to prevent “brute force” attacks
* After 10 or more account locked until admin unlocks
* Forgot password link in case of a forgotten password

### 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.”*

* System determines user ID and information from login credentials
* System provides end users the following options: review packages, purchase package, schedule/cancel/modify in-person training, schedule/cancel/modify behind the wheel training, review progress/profile, and logout
* System also provides end users with special options based on their package such as: access online classes, take practice tests, review online content, and download content for offline work
* System will determine the role of a user that has logged in
* System will display different options for admin users such as: add/modify student profile, add/modify admin profile, delete users, reset user password, validate suer using security questions, print activity report, download content for offline viewing, and disable purchasable packages
* System will email customers receipts
* System will notify instructors via email when a session is book for training or behind the wheel instruction
* System will validate users attempting to enter restricted areas, like online classes
* System will provide technical reports to admin users when requested

### 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.)?*

* Display screen
* Keyboard or similar
* Mouse, touchpad, or trackpad
* Browser, whether mobile or computer
* Different user interfaces based on customer or administrator

### 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?*

* Users have access to the internet
* Users have a computer or phones with input capabilities
* Server providers and support any number of users on the service at a given time
* Users have electricity or battery power
* Users have up to date browsers
* The reports requested are the only reports essential at this time

### 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?*

* System cannot function without power
* System cannot function without the internet
* System relies on Windows. Therefore, any major Windows problem is a potential major system problem
* Timeline is short which could affect desired functionality
* System would have limited real-time notification ability due to being based in a browser
* No way to prevent republication of course materials due to the ability to download the materials

### 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.*

Timeline

Description automatically generated