# 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?*

* The client is DriverPass
* Overall, they want their system to be able to help train students for their drivers test

### 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?*

* Online learning resource
* Access to data from anywhere, online and offline.
* On and off road training
* Practice tests
* Reservation (edits and current) (car, time, location)
* Access control
* Package outline

### 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?*

* System must be able to create and edit reservations, provide learning courses, practice tests, and display package options.
* Measurable tasks are all of these.
* System must be able to disable packages, and create new ones (with developer assistance)
* Autroamtic password reset for clients

## 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?*

* Only web-based, preferably cloud. No other platforms
* The platform is mainly text based, and should run smoothly
* The system needs to auto-update daily, at least. DMV laws must be included.

#### 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?*

* It will require a database, although as a cloud/web based service the platform constraints will be based on the web host provider.

#### 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?*

* Different users are verified by their passwords and usernames
* The input is case sensitive
* The admin should be informed if many failed attempts at logins are made in a short time, especially if several accounts are being accessed at once.

#### 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?*

* Small changes can be made, but most will need to be made by IT.
* IT needs complete access if DriverPass wants the ability to remove and modify 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?*

* Company opwener wants access to reset forgotten accounts
* CA can be used for client to server purposes
* Company owner can delete account in case of brute force hack

### 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 monitor user logins, including location.
* The system shall monitor user login attempts, and shall automatically lock accounts based on these.
* The system shall notify Admin if security breaches are detected.

### 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 user interface needs to be able to differentiate between client users and owners/admins.
* The interface needs to display drivers license, Driver notes, Test progress, special needs, and information .
* The user should be able to edit all of these at will.

### 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?*

* Assumption that users have internet access
* Assumption that users understand and are able to navigate website
* Assumption that users have access to a computer or smartphone.

### 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 handle massive influxes of users if DriverPass gets too large
* Timeframe is based on smooth development process and cannot account for emergencies
* System changes will be limited to DriverPass IT abilities.
* System will be constrained to provided cloud storage limit.

### 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.*

[Insert chart]