# 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
* Owner: Liam
* Purpose: To train people using online training and practice testing in preparation for taking their driving tests.

### 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?*

* Be accessible online (computer and mobile)
* Downloadable/exportable/printable reporting
* Security includes:
  + Multiple different security levels
  + Tracking for tasks like making, canceling, and modifying reservations
* Reservation tracking
* Driver tracking
* DMV connection
* Offer packages

### 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?*

* The completed system shall be easily accessible online and allow users to attend training or take practice tests
* The system shall offer a tracking/scheduling system to see driver’s schedules and who they are paired up with
* The system shall allow exportable/downloadable reporting that will be able to be modified offline
* Security shall have multiple levels to accommodate the needs of all employees and shall track activity
* A DMV connection or notification system shall let the company know when an update has been made to DMV policy

## 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 shall be a web-based system through the cloud as preferred by the client
* Updates shall happen to the schedule when something changes (ie.. a new or cancelled reservation)
* Updates to the system shall happen when a DMV policy is changed to keep the tests and training relevant.
* Security shall be updated regularly

#### 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 would be a good idea to have the system be able to use the major platforms.
* An online cloud database is preferred by the client

#### 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 user shall be given a user ID to distinguish between them
* Case sensitive names and passwords are ideal for security purposes
* Any bugs shall be reportable to the admin ASAP to ensure a smooth user experience

#### 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?*

* The IT admin has requested security access to make changes to employee access.
* New customer users shall also be able to be modified without changing code
* Platform updates will take place gradually over time and will be tested and approved internally before going live.

#### 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 will create case sensitive names and passwords
* Additional security can be gained through the online server
* Brute force hacking will result in a locked account and a notification to the user
* Forgotten passwords can be reset via a link which will send a verification code to the registered email or phone number

### 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 track test results
* The system shall maintain a schedule
* The system shall administer practice tests

### 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 system shall administer practice tests and return immediate results
* The system shall allow users to create a new reservation or modify an existing one
* The system shall be flexible and allow users to easily use various devices for login
* The system shall track driver schedules

### 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?*

* The assumptions I’m making, since the client requested using the cloud, is that they understand how it differs from other alternatives
* Budget. A budget should be discussed with the customer so that assumptions aren’t being made that everything is within budget.

### 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?*

* Time frame. We set an internal time frame but no expected time frame was established from the customer
* Budget. No budget was discussed.

### 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