# 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?*

* He wants the system to train students for their driving test at their local department of motor vehicles (DMV).
* The client is driving students.
* Help me access my data from anywhere, online as well offline. But only modify while online and make reservations for driving lessons.

### 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?*

* Make reservations for driving lessons
* The problem being fixed is there is a need for better driving training for driving students
* Different components needed are system security

### 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 system should be able to grant varied levels of access to employees and customers.
* The customer should be able to access their information online and offline, but only modify it online.
* The system should create reservations tracking the customer, their assigned driver, and their scheduled times.

## 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?*

* *The system should be update pretty frequently to make sure there are no bugs, security* breaches or any DMV guidelines need to be updated. The DMV guideline changes should be a priority in updates to ensure students are informed with the right information on DriverPass.
* The system will be run on a web base to be successful.
* The system would need a fast speed to run because it has requests that will go back and forth

between servers. There will be multiple student’s online at once taking exams and the speed

should be pretty quick to keep those moving.

#### 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?*

* The system should run on a browser such as Microsoft Edge, Chrome or Fire Fox.
* If the website were to be accessed on a mobile device it should be able to fit the screen and re-size itself to the screen being used.
* The back end would need a database to store information.

#### 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 will have a user email and a password to distinguish them.
* The inputs will be case sensitive to help with security.
* The system will have a set number of times the user inputs information in incorrectly, once a user exceeds that number of times admin will be 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?*

* If we create functions for the user object to get and set each attribute there is no need to alter code.
* The system will interact with the platform’s API so the platform updates shouldn’t affect our system.
* The IT admin needs access to the user database and there information, but not the code base.

#### 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?*

* The user needs a user name and a password to log in.
* The information should be encrypted before being exchanged and then de-encrypted upon receipt.
* The account should be locked out immediately so that it must be unlocked by the admin after the user verifies themselves.
* There should be additional information and security questions that can help the user identify themselves in order to reset the 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.”*

* The system shall encrypt data before transferring between the client and server.
* The system shall lock the account upon three consecutive failed log in attempts.
* The system shall allow users to reset passwords after verifying the user’s identity.

### 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.)?*

* Online test progress should show the tests the customer took. It should show

what’s in progress and the ones that the customer completed. So, it would say something like test name, time taken, score, and status. The status could be not taken, in progress, failed, or passed.

* The different users would be the admin, the teacher, and the student.
* The admin should be able to access everything on the system in order to fix any issue. The teacher should be able to access tests and materials. The student should be able to access their own tests to take them and to check past scores.
* The users should be able to access the system via any platform that has a supported browser.

### 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?*

* Possible fees for databases or cloud storage.
* I’m assuming they are using a supported browser such as Microsoft Edge, Chrome or Fire Fox.

### 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?*

* Possible limitations could be signal to mobile devices or low end, slow internet.
* Our time is limited to a few months for delivery of the product.

### 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.*

