# 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 purpose of this project is to provide an online platform for training students for their DMV testing. The client is the DriverPass company. The system should be able to provide users with various training packages, ability to schedule trainings, track results, and utilize online training as well as in person vehicle training, all while remaining up to date with DMV requirements.

### 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?*

* DriverPass hopes to increase the passing rate of driver tests by exploiting a void in the training of student drivers and providing a web-based platform for scheduling trainings and tracking progress. The company plans to provide online testing and training as well as in person training to allow for best results.

### 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 needs to be able to provide users with personalized accounts, track usage and progress, provide accurate activity reports, provide an interactive real-time database for scheduling appointments between different drivers, cars, and users’ schedules. The system needs to remain connected/up to date with DMV standards and requirements in order to properly prepare students.

## 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 will be in the form of a cloud-based website.
* The system will be as fast as is necessary in order to provide a pleasant, time efficient user experience.
* Updates to the system shall occur whenever the client would like to correct issues or introduce new features.

#### 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 will run on a Linux platform.
* The back end for this system does not require any additional database tools or support, as it is cloud based and has the clouds security and database support.

#### 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?*

* Accuracy of user is the foundation of the system. We will distinguish between different users by way of personalized username and password, which the user will create upon initial access of the system. Due to the importance of accuracy, input will be case sensitive. Furthermore, there will be multifactor authentication the user will go through, in order to provide more barriers and increase accuracy.
* The system will inform the admin as soon as possible, in order to most efficiently correct any issue that arises.

#### 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?*

* Providing an adaptable environment to manage the users is important, and it will not be necessary to go through the headache of altering code when we want to add, remove, or modify a user account.
* The system will adapt to platform updates by slowly rolling them out as corrections or new features are desired or required.
* The IT admin requires full access to the system in order to successfully perform their duty of managing the system, such as changing or removing employee access.

#### 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?*

* Required to login, the user will be prompted to input their username and password. Furthermore, there will be additional layer of multifactor authentication, such as a predetermined question the user knows the answer to.
* We will be utilizing the cloud for securing the connection and data transfers.
* If there is a “brute force” hacking attempt, or in other words repeated failed attempts to enter username/password, the system should lock the account and notify the admin.
* If the user forgets their password, they can be sent a password reset process via email.

### 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 offer three separate driving education packages.
* The system shall provide driving classes and testing practice.
* The system shall validate user credentials upon login.
* The system shall book and track reservations of in person driving lessons.
* The system shall display the driving instructors.
* The system shall track and display the users progress on classes, lessons, tests, etc.
* The system shall run efficiently.

### 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 needs of the interface include providing a platform for users to choose a learning package, observe lessons, book in person driving lessons, and provide/track user progress in driving testing.
* The different users for this interface will likely be limited to individuals who are preparing for a drivers test.
* The users will be able to access the interface from any mobile device, laptop, or desktop.

### 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 design above does not concern a budget.
* The assumption is being made that the system outlined can be within the undetermined 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?*

* In terms of building the system, one limitation might be the lack of employees working on the build.
* Other limitations include the time constraint of building the system in 5 months, as well as the undetermined budget.

### 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.*

