# 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 set up an application for the client named DriverPass. DriverPass wants to help future drivers study and train for their driver’s test at the DMV.

### 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 wants their system to help drivers take practice tests (pay for their services) and make appointments to train with instructors and where the instructors need to pick them up. They also want to be able to adjust what packages the students choose to learn from.

### 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?*

* When this project is completed we should have a fully capable training application for future drivers to sign up for, choose packages they want to help them learn how to drive, set up appointments for training, and the client DriverPass wants to be able to go in and make changes to user accounts or delete authorized users out of the system if needed. One task that needs to be included in the design to achieve this is the business logic and ease of use for the client.

## 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 application needs to be able to run on many platforms so future drivers using all platforms can take advantage if the services offered, so we’ll need IOS, windows, android, web based, and linux at least.
* The system needs to be ran fast enough to access information as easy as possible and anywhere.
* The system will need to be updated as often as possible such as new laws/regulations, security updates, progress reports (such as crash reports), and general updates.

#### 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?*

* This application should be utilized to work on all platforms so more future drivers can access the materials.
* The backend could use certain tools such as setting up all information on the web browser making the IOS and android apps pull from the web-based browser and port into the app.

#### 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?*

* The users will have their own unique log-ins such as usernames (or email) and case sensitive passwords.
* The system should alert admins of crashes or if a user cannot log in after a few unsuccessful tries (such as 3) it should the. Prompt the user to reset their password using certain methods such as enhanced verification (such as proving your email or answering security questions).

#### 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?*

* You should be able to make changes to the users’ information without changing the code
* Platform updates should be performed during non-crucial times and should alert users and give them the option to postpone updates if needed.
* The admins need full access to the system such as user info to make changes and also 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?*

* The user will need their unique user id and password.
* Proper cryptography should be used to ensure the connection is secure and also this should be monitored by the system.
* In a brute force hacking attempt the user affected and admin should be informed and proper action should be taken to ensure it does not succeed.
* If the user forgets their password they should be able to reset it by using security questions, confirming email, or proving themselves to the admin directly.

### 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 information
* The system shall update documents and information between platforms.
* The system shall allow password reset.
* The system shall tell the progress of each class and hours logged.
* The system shall be updated to current laws.
* The system shall be updated for security patches.
* The system shall show online test progress.
* The system shall display user information.

### 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 needs of the interface will depend varying on the system being used such as web-based will use the keyboard and mouse for computer and IOS or android will use the touch screen keyboard.

### 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?*

* Some assumptions will be users will have the basic knowledge to use the web browser or the mobile application.

### 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?*

* One limitation will be screen size optimization.
* The resources, time, budget, and technology should not have any limitation issues.

### 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.*

