# 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?*

* DriverPass is the client and would like to design a software that can help people pass their driving test. It will have on-the-road training as well as online practice exams.
* Training people to drive
* Educating drives on rules and regulations
* In turn will make the roads safe and hopefully less accidents

### 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 has noticed there is a lot of people failing their driver’s test. They would like to help by providing online aids to help people pass the exam.
* They are working on creating packages to tailor to someone’s specific needs.
* The software will need to have a website for login information and to keep track of data.
* User login with password
* Information will always be accessible through the website
* Clients will be able to see their process, take tests, notes, and test information
* General dashboard with personal information [Name, Address, Telephone, Email, Payment]

### 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?*

* Book and cancel appointments for on-the-road training.
* Be able to take and retake the practice exams.
* Downloadable PDF for reference
* Student/Client dashboard with class progress
* Completion percentage
* Test grades
* Flashcards
* Study tips

## 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?*

* Website
* Andriod
* Mac

The system should be able to have enough bandwidth to support several users making changes and editing information on their portal. The system also needs security as there will be personal information on the database.

#### 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?*

* Platforms for the system need to be supported for Windows, Mac, Android, and Linux based systems.
* The back end should have all the information the user needs on it. Other tools should be an app that has the same information for quick access.

#### 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?*

* Users will have login information username and password.
* Having a password that is case sensitive will help with security
* The app can have a finger login for identity

#### 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?*

* Yes, you will be able to edit user information in the general user portal.
* There will be an IT employee that can modify bug fixes and perform updates when necessary.

#### 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?*

* Username and password
* Prompt user to change password every 90 days
* Add fingerprint for app login
* If the user forgets password, there will be a “Forgot Password” option to be reset
* IT will monitor servers for suspicious activity and then advise clients where there is a potential threat

### 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 when logging in
* The system shall allow password reset
* The system shall allow user to edit personal information
* The system shall allow access to tests and schedule
* The system shall allow user to access study materials

### 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.)?*

* Windows, Mac and Linux will have a user interface for mouse and keyboard
* Android and IOS will have a user interface for apps
* The users will be able to see their information, test dates, schedules, test materials

### 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?*

* I don’t think anything was missed
* Even if the user is running off Windows 95, they will stiff have access to the internet. They will be able to sign up and use the web-based interface

### 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?*

* Over time there might be some bugs that may arise as conditions may be met that weren’t initially.
* There might be come glitches in the app over time and updates will prevent that

### 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]

Chart

Description automatically generated