# 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 project's purpose is to handle information and business relating to training students for a driver's test. Liam is the owner of DriverPass which is a startup company. Liam wants a system that can help him run his company.

### 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?*

* Given that so many students fail their driving tests, DriverPass is to help the students pass their tests. The system will need record keeping, online support for different interfaces, and certain security features such as database tracking and user login control. The system must also keep track of company-related events.

### 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 essentially be able to handle company information. Some measurable tasks that need to be included are the completion of parts and modules. These include diagrams, interfaces, and database handling systems. These modules will also need tests.

## 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 involve servers in the cloud and different web-browsers for different devices. The system should be fast enough to allow online training for the customers, which could require live updating.

#### 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?*

* Admin needs to access data online from any computer or mobile device. The back end should be on the cloud so that backups and security will be less of a problem.

#### 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?*

* Security involving login handling could be done in the cloud. The system should inform the administration in cases such as when a password is forgotten.

#### 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 system should allow modifications online through any computer or mobile device. The IT admin needs to be able to maintain the system.

#### 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 should have a username and password to login. There should be end-to-end encryption for security. Most security policies will be handled by cloud services for minimal technical problems. Admin should be able to reset passwords if a user forgets their 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 run off the web.
* The system shall be a page to allow communication for the student.
* The system shall show online test progress for the students.

### 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.)?*

* There should be at least 3 interfaces: one for management, another for the secretary, and one for the user. Each interface could be accessed through the web using a mobile device or computer.

### 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?*

* One assumption could be that future features will be handled with current architecture.

### 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?*

* Given that the system is made up of many programs and components, it won’t be as maintainable as a well encapsulated software application.

### 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.*

