# 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 goal of this initiative is to assist market drivers in passing their driving examinations.
* The customer is DriverPass, and they want us to assist them in developing a website that would allow students to study for their examinations by taking practice exams. It's also necessary to use the system to schedule training on the road.
* The client would also like the system to track reservations, display student information, and display the driver’s notes.

### 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 that the technology will aid in the preparation of student drivers for their written and on-the-road driving tests.
* The customer wishes to address the issue of too many pupils failing their driver's exams.
* Study materials, a progress meter, various packages accessible to students, security, login details/student information, and DMV updates are all required components.

### 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?*

* Clients should be able to book, change, and cancel on-the-road driving training through a fully functional website once this system is complete.
* Once the system is finished, customer will be able to take mock exams and classes online.
* Only selected personnel should have access to the system in order to make changes if they are needed or to develop it further.
* To help in the construction of the system, we should use object models, process models, and UML diagrams.
* We need to choose an operating system and programming languages for the website.

## 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's environment is planned to be web-based. It should be able to run on any operating system's web browser.
* The speed could be fast/moderate.
* When the DMV receives new regulations and guidelines, the system will need to be updated.

#### 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?*

* It makes no difference what platform it runs on because everything will be done in the cloud by an automated process. Unix, however, is will most likely be used.
* The back end will need a database to store information such as: user credentials, packages, and transactional data.

#### 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?*

* Before gaining access to anything, users must first distinguish themselves by using a username and password.
* Because of the increased security of passwords, case sensitivity will be employed.
* After three failed tries, the system will notify the administrator that there is a problem.

#### 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?*

* Users may be added, edited, and deleted without modifying the source code.
* When new features are required, the technology will progressively be included into platform updates.
* The IT administrator will have full access, allowing them to make any required adjustments or remove any former employees who no longer need 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?*

* To log in, the user will need a username and password, as well as multifactor authentication.
* The data communication between the client and the server will be handled by the cloud.
* To prevent brute force assaults, the system should terminate the account after four failed logins.
* If a user forgets their password, they will be asked to provide their email address, and a password reset link will be given to that address.

### 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 double-check the user's credentials.
* The system shall book reservations
* The system shall provide the user with practice tests and classes
* The system shall provide the driver with the customer’s information
* The system shall provide three packages
* The system shall run efficiently and with speed
* The system shall provide access based on the user’s rights
* The system shall show information on the tests and work completed by the user

### 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's interface requirements will be determined by the platform they are utilizing.
* For navigation, web users may utilize a mouse and keyboard, some users might be using a touch screen.
* Student information, student photo, driver photo, driver remarks, online progress, and special needs requirements should all be displayed on the interface.

### 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?*

* We were not given a budget for the system. As a consequence, we're assuming that the budget will cover everything we'll need to construct the system.

### 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 of the program's limitations may be that it will only be available for desktop and laptop PCs.
* For a period of time, customers and users will be unable to utilize the app on their cellphones. DriverPass plans to expand their company to other key platforms in the future, but for now, the software is only accessible for desktop and laptop computers.

### 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.*

*Timeline

Description automatically generated with medium confidence*