# 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 successfully create a system that will allow our Driverpass efficiently help new drivers pass driver’s license exam. Liam, the owner of DriverPass, wants the system to be user-friendly and accessible for users to learn from and schedule lessons.

### 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 the system to solve the current lack of training for new drivers, it wants to train students for their driving test at their local DMV. DriverPass wants to provide students training by giving scheduled road lessons, practice exams, and classes. The system should allow you to access data using internet, grant access based on authorization and title, as well as have tracking ability to monitor scheduled, cancelled, modified lessons.

### 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 complete the system should allow customers (users) to book, modify, and cancel road lessons, as well as take online classes to help them pass DMV exams.
* The system should also allow Liam to control all access restrictions for employees, as well as view and export data with internet access.
* In order to successfully achieve this system design, we must develop object models, process models, and UML diagrams to help us visualize the system.

## 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 web-based, the website will be using the cloud to hold all the data.
* The system should function fast enough for users to use website without running into any lag or issues.
* The system should be able to be updated whenever the client wants to add or remove a feature.

#### 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 should run on Linux platform.
* System will also be using the cloud to handle and store all the data and security.

#### 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 should be able to create a personal profile, using a username and password to give them access to lessons based on their specific packages. Should be case-sensitive.
* Admin should be notified immediately whenever a bug occurs, so they can find any problem and tend to it.

#### 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 you to add/remove/modify withing changing any code.
* Platform updates will begin when the client wants to start adding new features postproduction.
* Ian, head of IT for DriverPass, must have full access to the system to make any modifications, and to add or remove employees.

#### 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 have a username and password to log in.
* The cloud will be used to secure the data exchange between client and server.
* If there ever is a brute force hacking attempt, the system should disable the account after 3 failed attempts when logging in.
* If a user forgets their password, they must use forget password link and reset using the email they provided when signing up.

### 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 make reservations when user makes them.
* The system shall provide practice exams, and classes.
* The system shall show drivers the customer they’re paired with.
* The system shall provide different driving packages for users.
* The system shall run effectively and efficiently.
* The system shall provide custom access for admin and other employees.
* The system shall provide users with access to past exams to study from.

### 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 interface must allow users to make reservations, take exams, and classes based on their packages.
* DriverPass employees must be able to make changes to the system as needed.
* Users must be able to use the interface using any device with internet.

### 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?*

* After meeting with the client no specifics were mentioned regarding the budget. Due to this we will develop the system with no budget cap.
* We will assume the technology has easy access.

### 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?*

* We have approximately 5 months to complete the system and no cap to the budget.
* Due to a lack of internal employees, we might look to higher in order to complete a project like this in 5 months.

### 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.*

*A picture containing diagram, text, software, plot

Description automatically generated*