# 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 client is Liam, owner of DriverPass, and along with Liam is his IT officer, Ian. The purpose of this project is to take advantage of the void in the market when it comes to the training for the driver’s test. He wants a system to provide customers with online classes and practice tests in preparation for the driving test at their local DMV. The company will also provide on-the-road training, and the system will need to reflect this information.

### 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 be able to help Liam access his data from anywhere, whether online or offline. The problem, to fix in this case would be that data should be modified online only to reduce data duplicity across different servers. Ian also mentions they want access controls in place for security purposes. DriverPass also wants the system to notify when a user creates or makes a modification to their reservations, which are for the in-car driving lessons. Reservations for driving packages can be made online by use of an online account or by calling or visiting the office. Liam also wants to be able to disable a package if he doesn’t want any more customers to register for it. Ian stated that the system should run off the web, preferably over cloud to lighten the load of backup and security. The different components needed are a developer or a system analyst to add or remove modules according to Sam. Another necessary component would be for the system to always be compliant with up-to-date DMV rules and regulations

### 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?*

* + Requirement Collection <14 business days>
  + Building the use case diagrams and activity diagrams <8 business days>
  + Research user interface designs <9 business days>
  + Meet with client to discuss & approve
  + (if no modifications) Complete interface <12 business days>
  + Build database tables and link to interface < 9 business days>
  + Add business logic (security, role, right) layer <22 business days>
  + System delivery
  + Sign off meeting

## 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 needs to run off the web, preferably over the cloud to avoid dealing with backup and security. It should be connected to the DMV to keep up with any changes they may make to their policies, rules, or sample questions so this will need to be updated based on notification of an update (Regular system maintenance updates should also be planned). The system should run at a reasonable speed, with minimal technical problems.

#### 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 be able to run on a web platform such as Windows, MacOS, and/or Linux or something of the sort. A database would be required to organize storage and management of inventory, customer, and staff 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?*

* The system will distinguish between different users by usernames that are case-sensitive. The system should inform the admin of a problem immediately to avoid negative user experience and prevent the issue from occurring again.

#### 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 for the user to make changes without changing code. The admin should be able to use a non-coding interface tool to make those sorts of changes. The system will adapt to updates on the platforms automatically.

#### 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?*

* A valid and correct username and password is required for the user to log in. The connection can be secured between the client and the server through something like authentication and/or encryption. If there is a “brute force” hacking attempt, the account should be placed on hold, the account should be reviewed for the fraudulent activity, & the user should be notified so that passwords can be changed. If the user forgets their password, they should be prompted to reset it by sending a reset link to their email on file.

### 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 x
* The system shall
* The system shall
* The system shall

### 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 needs to be user-friendly so that users of all backgrounds have a good experience with using the system. Each user will need to be able to use all the available functions on the site through the interface (insert information, view photos, notes, and online test progress).

### 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?*

* A couple assumptions being made in the design about the users/technology they have are:
  + Users will have adequate internet connection
  + Users will have the right amount of knowledge to navigate the site and use a 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?*

* A couple limitations I see in the system design are:
  + The timeline may not go as planned and project may not be completed in time
  + Budget is limited for such a project
  + The technology may not allow for all desired features

### 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 graph with colorful squares and a diamond on it

AI-generated content may be incorrect.