# CS 255 Business Requirements Document Template

**Project 1**

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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?*

* Purpose: Build a system to train students for driving tests with the DMV.
* Client: Liam – Owner of DrivePass.
* System must provide online classes, practice tests, and allow for appointments for on the road training.

### 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?*

* System should allow user make appointments for real world driving practice with the ability to add a pick-up and drop-off point, and include tracking to know who creates, cancels, or modifies and appointment for security reasons. Users can also take practice tests and view their scores.
* Problems: Ensure flexibility so client can add or remove packages at a later date. Also, must be connected to the DMV in the event rules and laws are updated.
* Components: Cloud access, easy to read interface showing student information, including testing results. Requires 3 packages for the user to choose from, each with additional content added.

### 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?*

* Customers will be able to take online classes as well as practice tests. They will also be able to create and alter appointments to practice driving with a driver. The system will help the customers have a greater success rate when taking their actual driving test with the DMV.
* The system will show the customer’s online test progress, which are in progress and which are completed. It will also the results of the completed tests. It will also show the times for the driving lessons.

## 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 be a website that is cloud-based.
* The system needs to run fast enough to allow customers to use the system without issues such as having to wait long periods of time for items to load.
* The system should be updated when the company decides to add or remove modules. It also should be updated when the DMV alters driving rules and regulations.

#### 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?*

* Linux would be the preferred platform. The system will require a database to store user information, which will be uploaded to the cloud. Security will be handled by the cloud, so there would not be any extra security measures taken.

#### 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?*

* Every user will need to create a username and password upon their initial use of the site.
* The input should be case-sensitive to allow for more diverse username and password options.
* The admin should be informed when the system experiences and errors. The admin should also be informed when a user forgets their password so he can reset 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?*

* You will not have to change the code to make changes to the user.
* Platform updates should be added slowly so developers can easily fix errors that may occur from the update. These updates would occur when modules are added, removed, or modified.
* The IT admin should be able to access the system in order to modify user account information, such as resetting a forgotten password. They will also need to be able to have access to the employee database to add new employees or remove former employees. They should also be able to modify the system, such as adding or removing features and modules.

#### 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 need to create a username and password.
* The cloud will handle the security of the data exchange.
* In the event of a hacking attempt, the account being hacked should be locked once the password has been incorrectly entered at least three times.
* The admin will be able to reset the password in the event the user forgets it. A password recovery link can also be implemented.

### 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.
* The system shall allow the customers to make reservations.
* The system shall allow the customers to take practice tests.
* The system shall show the customer a brief bio of their driving instructor.
* The system shall provide three different packages, each with more features than the previous package listed.

### 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 should allow the customer the ability to create and view reservations, provide class information, allow them to take online tests, as well as view their progress and results. They should also be able to view and modify their profile.
* The users are the customers and the employees of DriverPass.
* The users should be able to interact with the various options and features of the website. The employees should be able to view upcoming appointments and reset passwords when requested by the user.
* The user will be able to interact with the interface through a PC browser or a mobile browser.

### 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?*

* No budget was given, and the technology available to the company was not specified.
* We are assuming that everything will fall into the required budget, and also that the team has the necessary equipment to complete the creation of this 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?*

* A limitation is a five month time limit without a specified budget.
* According to the interview, there are only five people involved with the project. With everything that is required of the system, I believe more people should employed in order to achieve the five month timeframe.

### 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 screenshot of a project management

Description automatically generated*