# CS 255 Business Requirements Document Template

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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?*

* **Client**: DriverPass
* **Project** **Purpose**: DriverPass wants to improve driver training by providing online courses and live instruction.
* DriverPass recognizes that there is a group of people who fail their driving tests at the DMV, they would like to improve this by offering online courses, practice tests and live instruction. They need a system that can handle all aspects of this.

### 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** **Purpose**: DriverPass requires a system that can host online courses and practices tests. In addition, they need a scheduling system that allows students to request in person appointments for training sessions.
* **Problem** **to** **address**: DriverPass wants to assist their students in passing their DMV driving test. This system will facilitate this by providing training materials and resources.
* **Components**:
  + Web-based application that houses user information, course resources, DMV regulations & an reservation system.
  + Report download available offline.
  + Ability to add and block users.
  + Ability to track record changes – password changes. Modify, cancel & make lesson reservations.
  + System roles – IT, secretary, officer, client/students
  + Ability to schedule in person driving 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?*

* Users can create accounts & make accounts changes (Passwords, demographic details).
* System will store & track all user modifications.
* Users can schedule driving lesson appointment including picking one of three instruction packages.
* Users can make cancel & edit reservations.
* Users can view and take online courses from any network device.
* Users can take practice exams.
* System will track exam progress.

## 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?*

* This system should be run in a web-based environment.
* The system needs to run acceptably fast due to the number of requests that will be conducted between servers. In addition, there will be multiple students accessing the system at once. The system should be able to handle multiple users accessing and maintaining speed.
* The system needs to be updated frequently, weekly would be suggested. This will ensure that there are no bugs, security is maintained, and any content updates are completed. DMV guidelines will also need to be maintained and should be done in system updates.

#### 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 off any web browser and should be formatted for mobile browsers. The backend would need a database to support this application. The database should be able to maintain information such as user information.

#### 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?*

* Each user will use their personal email and unique password to access the application and to be distinguished.
* The inputs will be case sensitive to ensure security.
* The system will inform the admin of a problem after three attempts of incorrect credentials. It will also lock the users’ accounts.

#### 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?*

* Yes. You can make changes to the users without changing code. There will be user roles and an admin role will be able to do this within the system.
* The system will adapt to platform updates by updates being completed by the tech team or programmers.
* IT admins will need access to all parts of the system aside from the user database. It is unnecessary for IT to have client personal information. To maintain security, these roles will be removed if member is no longer with the company.

#### 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 is required to provide their email and password to log in.
* Securing the connection or data exchange between client & server would be done through HTTP.
* With the limitations on the number of attempts to log in, the system would notify the security team. In addition, the account that is being attempted to access would be locked.
* If a user forgets their password, they have the option to reset it. The system will send information to their email that they need to access for them to reset the 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 validate user credentials when logging in.
* The system shall allow the user to reset their password.
* The system shall make changes based on DMV regulations.
* The system shall confirm customer demographic information (address, first & last name, payment information, phone number)
* The system shall provide exam progress and scores.
* The system shall confirm user role (admin, student)
* The system shall display three types of packages to the client.
* The system shall allow the client to disable packages.

### 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 needs of the interface are a computing device, laptop, computer, mobile device, that has internet connection.
* The different users of this interface are admins and developers of DriverPass. They will have a security level to update the system and make changes.
* The users will interact with the interface to book appointment packages, access online content and take practice exams.

### 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?*

* All items were addressed in the design.
* The assumption that I am making is in reference to the budget. Ther is no mention of the budget, and we will need more information regarding finances.

### 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?*

* Limitations will be on the end user side. The end user will need a computing device and internet connection to be able to access the system.
* Time for the project will be a limitation. We will also need more information on the budget, which could be a limitation.

### 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 calendar with different colored squares

Description automatically generated with medium confidence*