# CS 255 Business Requirements Document Template

**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 build a system that can handle the requirements of our new client
* The new client is Liam
* Liam would like his system to provide resources for people planning to take their drivers exam

### 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?*

* According to DriverPass, too many people fail their driver test at the DMV.
* To help improve driver test pass ratings, they want to provide better driver training.
* DriverPass wants to provide online classes and practices test as well as on-the-road training.

### 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?*

* Allow Liam to access data online from any computer or mobile device
* Allow Liam to download the reports and some information he can work on at home
* Allow Liam full access over all accounts to control user access
* Allow Liam to see user reservation activity (make, modify, cancel)
* Allow users to make reservations for driving lessons
* Be able to track which user is matched up with a certain driver, time, and car
* Allow the customer to automatically reset their password if the forget it
* Be connected with the DMV to stay in compliance
* Show customer testing progress and status
* Measurable tasks would include:
* Creating use case diagrams
* Building activity diagrams for each use case
* Research user interface designs
* Build class diagrams
* Get client approval
* Build interface
* Link DB to interface
* Build business logic
* Test system
* Deliver 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?*

* This system should be web-based
* Speed was not a priority
* The system should be updated any time the DMV changes their rules

#### 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?*

* This system should be accessible from virtually any platform
* The back end will need a database to store 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 have a personalized username and password
* The password will be case sensitive

#### 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 should be able to modify users without changing code
* This system will be cloud based so there shouldn’t be much down time for updates
* IT admin will need full access to modify users (add/remove/reset password)

#### 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?*

* Username and password are required to login
* If an account is hacked, it should be locked out and then the password reset
* Two factor authentication can also be used
* If a user forgets their password, they can reset it by have a code texted or emailed to the number or email provided in their account

### 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.”*

* This system shall validate user credentials when logging in
* The system shall allow users to schedule an appointment with a driving instructor
* The system shall allow users to submit payment for the appointment
* The system shall keep up with current appointment and instructor availability
* The system shall allow users to reset their password
* The system shall have the ability for the user to contact DriverPass and vice versa

### 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 different users will be the owner, IT officer, secretary, and customers
* The system shall have different options for a customer versus the owner and IT officer, who should have more privileges
* The system shall be accessed through web 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?*

* The system shall assume the user has equipment capable of accessing a web page
* The system will be able to access the DMV website to stay up to date on any changes they make

### 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?*

* Packages offered by DriverPass will not be able to be modified (add/remove/edit) without the help of a developer

### 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