# 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?*

* DriverPass (our client) would like us to build a system for inspiring drivers to be able to take online classes and practice tests. They also want the system to include an option for on-the-road training at their company site.

### 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 to create a system that will help individuals pass their drivers test at the DMV. The system needs to have driving test and exams available at moment’s notice for the consumer and the option to have on road training. The system will need to have online data that is accessible anywhere that has internet access. Reservations, cancelations, and appointment modifications will need to be tracked by the system. There will also be three different packages to choose from for on the road training that will need to be tracked and available to the public as well. Lastly the system needs to have certain security measures that grants access to different users as well as limitations on what the users can do on the system.

### 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?*

* The fully built system should have complete functionality that will allow users to book, cancel, and modify online classes, exams, behind the wheel tests, and practice tests. Certain employees will be given access to make possible changes or improvements on the system. Object models, UML diagrams, and process models should be used to help give a visualization on the system and how it operates. Also, a well-equipped operating platform and language system will be needed to create the website.

## 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?*

* Application needs to be cloud based
* System should constantly be updated due to it being on a cloud-based platform
* The system needs to be updated whenever the DMV requirements are changed

#### 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?*

* DriverPass is going to be running on computers and mobile devices so it needs to have cross platform capabilities.
* If we use a third party cloud service system we should be able to manage multiple platforms as well as the background requirements for a database.

#### 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?*

* There needs to be different tag handles such as customer, employee, and admin for each user profile so it can help distinguish the different account types. These accounts should also be flagged in the system so our clients can tell the difference between them. Also, since the system will update the admins whenever a change is made, it should also inform them if a problem ever occurs.
* Each username should be unique.

#### 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?*

* System will adapt to update and features as well by coding in modules that can be switch on and off or edited if necessary
* IT admin will need access to do these things

#### 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 for log in
* A two-step authentication can be implemented to secure the data exchange between the client and the server.
* If a sudden onslaught of hacking attempts is happening the system should be able to block the associated IP address after several attempts is made. If a customer is blocked due to someone hacking their account they should be to reach out to customer support, verify their identity, and become unblocked.
* If a user forgets their password they should be able to request a password reset by using their email or phone number.

### 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.”*

* System needs to validate user credentials when logging in
* System needs to validate those credentials against the access requirements
* System needs to track the progress of customers and will supply the results to the customer and admin team
* System will notify the admins when a DMV requirement update has occurred
* System will notify admins and instructors of any changes in bookings and schedules
* System will allow customers to modify booked appointments

### 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.)?*

* Interface will need to display online test results/progress, instructor/customer information, driver notes, special needs, and instructor/student photos.
* Interface will need to be used by customers, employees, and my clients.
* Customers need to be able to view information, schedule lessons, and take tests while the instructor will need to be able to monitor and update the information
* Interface needs to be accessible on all platforms

### 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?*

* In the design above booked isn’t mentioned with a schedule of lessons
* I am assuming customers have access to upload a photo

### 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 include the timeline provided as well as the technology constraints imposed by using a third party cloud based system

### 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 computer

Description automatically generated with medium confidence*