# 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?*

* The purpose of the project is to provide better driving training to students who want to learn how to drive, and to teach students with an online platform that has online classes and practice tests for them and then provide on-the-road training in person if they want that.

### 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?*

* The client wants a system that can access his data from anywhere and any device as long as the user has internet access.
* He wants a system where he has full access to all the accounts in case, he needs to reset a user’s password or block access to an employee he laid off.
* He wants the system to have a tracking system in it so he can track who booked an appointment & who canceled and so on.
* He wants his platform to display three different training packages that his customers can choose from and have the option to disable new sign-ups if needed.
* He wants his platform to be connected to the DMV’s website so that if new laws or regulations come out, he gets an update on them.
* He wants the platform to be on the web and based on the cloud.
* He wants an interface that shows the students their progress and a section for the notes from the trainer to the student.
* He wants his platform to be accessible to him, his IT professional, his secretary, and then all the users who sign up to his platform.
* They want a security feature that allows the users to reset their passwords automatically if they forget them.
* He wants a reservation system where users can schedule their on-the-road training and then that system assigns them a driver and car who is available in that time slot.

### 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?*

* Display different train packages to users.
* Ways to sign up are like an online form to sign up or ask them to call the company to sign up on the phone if they wish to.
* An integrated online learning platform where users can take classes and practice tests.
* A user’s dashboard where it presents the user’s learning progress.
* A scheduling page where users can schedule classes and in-person on-the-road training.
* And a form for users to fill in their information.

## 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?*

* DriverPass must run on the internet and be web-based.
* Must work on all devices if they’re connected to the internet.
* Must be fast and not slow by working out an efficient way to use memory.
* Must have periodic updates for the DMV’s new laws 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?*

* The App should be cross-platform and work on all platforms.
* The backend should have a strong dependable database system to keep track of all the inputs and updates from the users.
* The App should work on all Operating Systems to be able to work on all devices.

#### 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?*

* By creating two subclasses to a superclass that can create different types of users and allow different controls for each one.
* Distinguish users using unique usernames for each user.
* To keep each username unique, we should make it case sensitive.
* Design a system that notifies the admin when an anomaly happens.
* Design a system that notifies the admin when a customer complains through the website about a function of the platform.

#### 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?*

* Admin should be able to make changes without getting into code and that can be done by creating functions that are only accessible to admin that can add/remove/modify.
* The system will adapt to platform updates by proactively testing newer updates to make sure everything works as intended.
* IT Admin would need special privileges to access extra controls of the system.

#### 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?*

* For a User to log in he would need his chosen unique username and password to authenticate the user.
* Implement SSL to encrypt the data transferred between the client and the server.
* Implement mechanisms in place that detect multiple attempts to sign in using different passwords and then lock that account from being logged in the normal way, notify the user of this and the next he logs in to make sure it’s the right user implement a 2-step verification method.
* If the user forgets his password, he can ask for his password to be reset and then send him a link to reset his password after a 2 step authentication method to make sure it is the right user of the 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.”*

* The system shall have an option to reset passwords when needed.
* The system shall allow users to start learning through an online course.
* The system shall allow users to book appointments for driving lessons.
* The system shall allow users to modify their existing bookings.
* The system shall allow administrators the ability to modify appointments and user accounts.
* The system shall allow customers to sign up to a plan and collect payment.

### 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 be user-friendly and not complicated.
* The interface should be able to guide users to what they want.
* Users should be able to interact with the interface by clicking on different buttons and options.

### 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?*

* That users have internet access.
* That users have a modern device to use the platform.
* That users have basic computer knowledge.

### 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?*

* The System can’t generate driving courses on its own it would require admin intervention to do that.
* The System can’t keep the platform up to date on its and would need admin’s help.

### 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.*

