# CS 255 Business Requirements Document Template

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 client is DriverPass.
* They want to create a system that will provide supplemental driving classes through both online courses and in-person driving classes.

### 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 noticed a lack of proper driving training available to new drivers.
* They also noticed a large number of students failing or unable to pass their driving tests.
* They in turn want to create a system to better educate and assist new drivers with passing their driving tests and successfully obtaining their licenses.

### 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?*

* An appointment system able to set, cancel, or modify appointments
* Access to data at any time online or offline, including the ability to download reports and transfer to Excel
* Full access to profiles by IT officer
* Tracking and activity reports
* Profiles for drivers and users with password reset option
* Automatic update system for new updates from the DMV

## 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?*

* It needs to run in a web-based environment
* Should have a quick runtime, so as to update exams, problem sets, and other information in a timely manner
* Should update at a fairly constant rate, as the DMV’s guidelines and practices can change fairly often. These updates will also work well with preventing and fixing bugs.

#### 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?*

* Will need to function on a web browser
* Will need a database for the system to store user data

#### 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 will be different login areas for students, admin, and workers
* Passwords will be case-sensitive so as to provide extra security
* System will inform admin of problems on a daily basis

#### 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?*

* Changes can be implemented through the backend without altering code
* System will adapt to platform updates without error
* The IT admin will have overhead access to nearly all information, including accounts, passwords, and anything required for them to remove or add accounts

#### 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?*

* Login requires password and username for authentication
* MFA (multi-factor authentication) will be implemented for better data security
* If there are more than six failed login attempts, the admin should receive an alert and the account will lock until the user reaches out to unlock it
* There should be a “forgot password” option for users to reset their 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 confirm customer details (name, address, contact info., payment info., etc.)
* The system shall confirm user type upon login
* The system shall display the package options
* The system shall confirm the chosen package
* The system shall allow a password reset when requested
* The system shall show student progress and grades
* The system shall update whenever there’s a change in the DMV guidelines
* The system shall lock account and alert admin after six failed login attempts
* The system shall display packages for the customer to choose from
* The system shall display lesson time, begin time, end time, driver and student photos, and student’s status

### 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 three types of users are students, instructors, and admin
* The user will need to have access through any web browser including mobile
* The student will have access to the home page, tests, grades, user profile, class/package registration, exam status, and driver notes
* The instructor will need access to the home page, student profiles, driver notes, and schedule times
* The admin will need access to the user info.(to change, reset, or add/remove user accounts), the customer and driver information, and the ability to disable a package

### 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 will always be running and available
* The user has internet
* The users are students
* The system will update all DMV guidelines as they change
* Customers will attend every lesson
* Drivers will attend every session

### 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?*

* Maintenance and monitored upkeep of ten cars
* Bad user internet connections and delayed updates
* Limit on the number of customers due to lack of available instructors/cars
* Budget and time-frame given to accomplish DriverPass’s vision

### 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.*

