# 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?*

* This project is for the company DriverPass that wants to help its students better prepare for their driving tests at the DMV to combat the lack of resources available to current driving students and to improve driving test success rates.

### 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 be able to provide practice classes and practice tests
* They want to be able to book reservations for in-person driving lessons
* The Owner wants complete access to his data from anywhere, even offline.
* Tracking for changes to records in 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 system will give the user (customer or secretary) the ability to:
  + Choose a DriverPass package
  + Start/Stop online class
  + Start/Stop Practice Test
  + Book Driver and Car for on road practice
* The system will give the owner the ability to:
  + Access his data from any device
  + Access his data online or offline
  + Download reports and information
* The system will give the IT Officer the ability to:
  + Access all accounts
  + Download sheet with all changes and data regarding changes
* The system will give the secretary the ability to:
  + Find users
  + Request ride-along on behalf of user
  + Register new user
  + Edit user 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?*

* This is to be a web-based system
* The possibility of expanding into mobile applications could be seen in the future

#### 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 on the usual systems which would be Windows and Mac platforms.
* A database system would be needed to keep track of students, employees, and schedules.

#### 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?*

* Different users would have different levels of access to the system.
* Usernames and passwords would be case sensitive
* After an issue as reoccurred three times the admin should be made aware of the issue.

#### 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?*

* User information can be accessed and changed without IT interference
* Adding and removing packages would require IT assistance
* Making a package unavailable would not require IT assistance

#### 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?*

* Users are required to use there username and password to log in
* If the user is unable to log in after 3 attempts the user is locked out for a specified time
* The admin has access to user profiles in the need to reset passwords
* If user forgets password and is not locked out, user can then request a password reset
* A password reset requires the user to provide their username and email, if both match then a link is sent to the provided email.
* To reset a password, the password must be entered the same twice

### 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 update information when the correct information is provided
* The system shall inform the admin of issues in the system

### 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.)?*

* Driver- Can update personal information, can schedule a drive along with an instructor, can access quizzes, tests, and info related to those.
* Instructor- can set schedule, can update personal information.
* Admin- can update user information, can make packages unavailable, can edit schedules, can reset passwords, can access user data.
* IT – can add/remove packages
* Secretary- can update user information, can schedule a drive along for user with instructor

### 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 assumptions that I am making is that they users have access to either a Windows or Mac system to utilize the system or have access to interact with a secretary to do the same.
* The assumption that the DMV will accurately and regularly update their systema and in turn the DriverPass system as well

### 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 making this a web-based application, not including desktop applications or phone applications like for android or apple
* Limitations on how the owner can update the packages as adding and removing packages completely will require the assistance of IT

### 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.*

[Insert chart]

