# CS 255 Business Requirements Document Template

Complete this template by replacing the bracketed text with the relevant information.

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, and they would like to be able make a website for people to be able to sign-up for a better driver training course and hoping to take advantage of a void in the market when it comes to training students for the driving test at their local department of motor vehicles.

### 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 has seen that a greater number of people are fail the DMV’s driving test and they want to be able to offer people a better driver training course. They want to be able to offer people the ability to take online classes and practice test as while as on-the-road training if they wish. And they would like for us to make a website that can update information from the DMV to stay as current as possible and make it so that their customers can make reservations for one of their three courses online.

### 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?*

* Collect Requirements
* Create Use Case Diagrams
* Build Activity Diagrams for Each Use Case
* Research User Interface Designs
* Build Class Diagram
* 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?*

* It should be web based over the cloud
* It should be fast enough for user to make real time reservation and get real time results
* It should be updated anytime the client adds new features, or the DMV makes changes to their webpage

#### 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?*

* It should be able to run on all three platforms Windows, Linux, and Mac
* It should have a database that would allow the storage of information and tables to display to the user.

#### 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 should have a unique username and/or ID number which is case-sensitive
* The admin should be informed immediately of any problems.

#### 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?*

* The system should have code in place that would allow for the changes to the user without changing the code.
* The system will be introduced to platform updates when Driverpass decides that they want to add new features. When they do decide to start doing updates in the future it is recommend that they do the updates in the non-peak hours of operation.
* The IT admin needs to have full access to the system. By having full access, the IT admin will be able to change any needed information and add or remove employees.

#### 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?*

* A username and password with multifactor authentication to log-in
* All data exchange between the client and server is handled by the cloud service
* The account should be disable after so many failed log-in attempts to prevent “brute force” hacking
* They would have to get with the IT admin to have the password reset

### 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 show test progress.
* The system shall show user demographics.
* The system shall show driver notes.
* The system shall show driver and student photo.
* The system shall book reservations when one is made.
* The system shall provide practice tests.
* The system shall offer the different driving packages.
* The system shall have access based on privilege.

### 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 needs to provide customers with the option to select driving packages, appointment times, and take classes and test online.
* IT admin- need to be able to change anything in the system.
* Employees – need to be able to modify user information and reservations request.
* Users- need to be able to modify their information and reservations request.

### 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?*

* Budget- we are not told what the budget is for the project so I would assume that if we keep to the design, we will stay within whatever the budget is.
* Employees- I assume that the client will be the ones to train their employees on the new webpage

### 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?*

* A limitation that I see is that we need to run on all three platforms, which will take more time to make code for all three. And we were not given a budget so I don’t know if we will have the time or money to ensure that it can run on all three platforms the way that it should.

### 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.*

