# 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 purpose of this project is to create a system to help train students to pass their driving test. The client is DriverPass and they want their system to be able to help students create accounts for online classes and reserve driver training to help with DMV testing.

### 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 problem DriverPass wants to fix is creating better driver training for students that are taking their driving test. They want to offer students successful training to pass their DMV test since so many people fail. DriverPass wants the system to mainly have the ability to be accessed from anywhere no matter the location. To have the ability to create their own account including credit/debit card info in addition to having both the students and the secretary to be able to create reservations, cancel, and modify them if needed for driving lessons. The ability to identify the driver the student is scheduled to go out with by tracking who the student is being matched with, the time, and the type of car. Lastly, the ability to take online classes, practice tests, and be able to get hands-on driving training.

### 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?*

* When the system is completed it should be able to give students the ability to create and access their own account, create, modify, and cancel reservations if needed. It should present 3 different packages for students to choose from, and the ability to auto reset passwords. In the accounts it should show progress for online test taking, the students personal information, and driver notes pertaining to their driving lessons taken. The system should be able to process transactions, track times, location, and cars for hands-on driving training. Most importantly, give the owner full access over the entire system. The measurable tasks that need to be included in the system design would be the response time for the system since we want a high performance system, the capacity since we have already discussed with the client later on to growth in data once the system is up and running, and any vulnerabilities due to security and detecting impacts or incidents.

## 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?*

* The system should be web based so that the users can have access from mobile devices and computers. The system should be able to run fast and respond without glitching. The updates should be regularly that way everything is up to date.

#### 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 Mac and Windows. However, in addition it would need to work on phones and tablets. So I would recommend iOS and Android. As for the back end, it will need a database to store all of the users info and reservations.

#### 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?*

* The system will distinguish between different users by making sure to tell who is using it so there's no confusion. The input should be case sensitive when dealing with the passwords to login to the accounts. If incorrect information is inserted or the system is not pushing out the correct information that it needs to, then at that time admin should be notified.

#### 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 should be able to be made rather it is adding, removing, or modifying any information without having to make changes to the code. Updates should be done regularly so the system should be able to do this without breaking the platform. The IT admin would need full access in order to make sure things are running the way that they need to run(smoothly).

#### 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?*

* When a user logs in they should have to enter their username and password. The system needs to secure with encryption that way all info is safe.If there is a “brute force” hacking attempt then after about 3 attempts the system should lock the account and block the user from any further attempts. If the user forgets their password the should be able to reset it using the email address we have on file to receive a reset link.

### 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 allow a new user to create an account
* The system shall validate the user credentials when logging in
* The system shall allow user to make a reservation for driving lessons
* The system shall allow users to add, cancel, or modify an appointment
* The system shall generate reports that tracks the user activity
* The system shall allow admin to reset passwords and block users
* The system shall allow users the ability to request a password reset
* The system shall allow customers to choose from different available driving packages

### 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.)?*

* Should be easy for every user to use not just the staff but also the customers. Each user should be able to use the interface the way that it is intended for them to use specific to their roles. The interface should be able to be accessed and used anywhere from any mobile device and/or web browser/computer.

### 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 assumption is that all users have access to the internet and this is not the case. Moving forward with this design we have to assume that the users are able to at least log in and make their appointments and reservations through their online account.

### 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 time frame on the building of the system due to time and budget. Also, the amount of users using the system at one time can affect the performance and possibly the network connection from the user end.

### 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.*

