# 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 the project is to build and design a website for the DriverPass. Liam who is the owner of the company wants to take advantage of market of new drivers who doesn’t know the DMV policies and who are new to driving the roads. Liam wants this project to assists those new drivers understand the polices as well as showing them the roads while providing the user access to see how far they have gotten into their progress.

### 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 DriverPass wants the system to function to where the users can create an account with their online services that they offer. Once the user creates a account they would be able to see Driver notes, Special needs, The drivers photo, Their own photo and information regarding their name, address, city, state, zip, phone and email. Once the user signs up for account they will be prompted to select three of the different packages that the DriverPass has to offer. The problem that the DriverPass wants to fix the helping those who doesn’t know the regulations of the DMV and also helping those who needs the assistance learning how to drive and understand the roads with learning how to drive. The components that is needed for the system is for Laim to have access to the server online and offline while being notified of any changes that are being made to a users account while also providing a cloud base system. The DriverPass wants a user friendly interface where the user can have a easy time scheduling, canceling or modifying their appointments. A couple of other components that the system needs is having a online test progress to keep track of the drivers progress they are making.

### 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?*

Once the system is complete the DriverPass will have a website where the can user can be able to create a online account to view the packages the DriverPass has to offer. There will be three packages that will be shown to the client that fits the needs. Package one Six hours in a car with a trainer. Package two Eight hours in a car with a trainer and an in-person lesson where we explain the DMV rules and policies and package three twelve hours in a car with a trainer, an in-person lesson where we explain the DMV rules and policies plus access to our online class with all the content and material. The online class also includes practice tests. One the user has choose their package of chose, they will be able to choose a date and time along side with a pick up location and drop off location. Laim will be able to access the files online and offline from where ever he is, Ian will be able to help users reset their passwords and remove access to employees who doesn’t work for the DriverPass anymore. The secretary will be able to set up appointments, cancel and modify appointments if necessary. The users will be able to access they’re driving report, notes, information about them and many other information regarding they’re driving reports.

## 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 running on a web-based and application for smart devices. For the web-based requirements, the minimal requirements will be to have a windows 8 and above. For smart devices it should running no later than IOS 8 and Open UI 5. Having these requirements in place will ensure that the customer will have a smooth and fast experience.

#### 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 platforms that the system is going to be running one is Windows, Linux, IOS and smart phones can access the internet.

#### 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 have a couple different types of users. The user will be able to create a account, view the packages and select dates. The admin will be responsible to assist the users in case of they forget their password or need assistance with there accounts.

#### 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 systems should be allowed to let the IT department add, change or modify user account and the employee database. A good example would be if a employee is fired, the IT department would be able to block access to that users account. No codes should be required to do these changes.

#### 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 the user creates a account they will be promoted to provide a email address in order to create their account. If the user has forgotten their password they use the system to send a reset link to their email to reset it. If the user loses access to their email they would have to call in and speak to the IT administration to further assist them in resetting their password and access their account. The system will also include a system to where if the user enters their password incorrect 4 time than their account will be locked for a period of time incase of attackers trying to sell information.

### 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 the IT department to assist with resetting passwords
* The system shall allow the students to select packages
* The system shall allow the students view driver notes, pick a day for a road test and reschedule appointment.

### 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.)?*

* There are going to be a couple of different roles for the user interface. While the user can create an account online via web based. They will also be able to book appointments, view driver notes and select the packages that’ll fit them the most. The admin will be able to will be able to add employees, remove access to those employees who don’t have access to the system no more. They will also have access to the edit, cancel or modify the users accounts if they needed help as well as resetting passwords. The staff can help book appointments and modify the accounts.

### 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?*

* One of the things in my design that I did not include was the user having access to the internet or having the minimal requirements in order to run the web or application. If users do not have access to the internet they wont be able to view driver notes, see test scores or edit there own profile due to not have a connection to the internet.

### 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 limitation I see in the system is the system requirements that are in place to run the website or the applications. Technology is always advancing each year which leaves older models devices and software out of reach of running the latest app. A very good example of this is the Original Xbox while back than it would be able to runs in the late 2000s it can no longer run modern games that are releasing now because of the out of date hardware and software it is running.

### 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.*

*A screenshot of a graph

Description automatically generated*