# 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

* The Client is DriverPass and the purpose of the system design, as a high-level overview, is to build a system that will handle everything to do with users taking online classes and practice tests as well as on-the-road training. In more detail, the system is to help users access data from anywhere whether its online or offline. The system is to be able to update data offline as well as to be able to have access to the data online from any computer or mobile device, but with minimizing possible redundancies. The system will also need to be able to download documents that can be used with Excel.

### 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?*

with the owner being Liam

* DriverPass is a startup driver training company created to fill a need for better driver training. He has found that many people tend to fail their driving test at the DMV.
* DriverPass wants the system to allow users to have access to online classes and practice tests to help with taking the DMV test. The problem they want fixed is the high percentage of people who fail the test. The components needed for this system, is a User Interface using the owner’s design. User security measures or user sessions with different access levels and permissions. A cloud base architecture for backups and security. Mobile first development and internet-based program so that the program will work from any computer as well as on any mobile device. Lastly the program needs to be connected to the DMV so that it can always be up to date with the latest DMV information.

### 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 requirements of the system are to be able to customize the packages and have a flexible system. The owner understands that a developer may be needed to remove or add modules, but he would like to at least be able to disable packages that he no longer wants visible to customers. The system will also need to create user sessions because the users of the system would be the students/customers, the secretary, the IT officer, and the owner. Each of these users will have different permissions. The system would also need to have functionality for a registration that would include first and last name, address, and phone numbers as well as the state and a place to enter credit card information. Also, the system should be able to be connected to the DMV so that the school will have the most up to date information. Lastly the system needs to be cloud based with all backups and security being handled by the cloud.

To achieve this the system will need a User Interface based on the owner’s design which would be the first task, I think. The next tasks would be to create user sessions maybe use the feature JSON web tokens to create those sessions. The system will need a database to store user information so I would think the task after that would be to integrate a database into the program. The client also wants a cloud-based architecture for security and to backup data. That means the next task would be to research cloud-based providers as well as building the program to work with a cloud provider. Also, because the system will have credit card information, security measures like encryption will need to be put into place. Possibly the final task would be a mobile first design strategy which will be a must to ensure the program works well on mobile devices along with computers. A client/server set up I think will also be the best way to start to have proper security for the program and a good way to control access to information. The end goal will be to have a mobile first program developed using a client/server set up to work on a cloud-based architecture. This program will also have a database to hold all data that will be accessed from the server side. This program will create user sessions from JSON web tokens and use technology like bcrypt to encrypt user sessions, passwords, and credit card information. All from a user interface that is designed based on what the owner sketched.

## 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

#### 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?*

* [Insert text]

### 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.”*

* [Insert text]

### 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.)?*

* [Insert text]

### 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?*

* [Insert text]

### 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?*

* [Insert text]

### 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]