# 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?*

* DriverPass is a driver’s training business, which helps student driver pass the department of motor vehicle (DMV) test.
* DriverPass wants to take advantage of a lack of training for the DMV driver’s test in their area.
* The to-be system will offer online classes, practice tests, and on-the-road training.

### 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 company was started to fill a void in driver training due to so many students failing their DMV tests.
* DriverPass wants to build an online system to aid driver students in passing the DMV tests.
* The to-be system will include registration, online classes, practice tests, on-the-road tests, package offerings, scheduling appointments.
* This system will give the company reporting, access to online and offline data, light user administration for disabling accounts, fixing password issues, account access.

### 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 to-be system is complete, DriverPass will be able to have online/offline access to driver’s data, reporting.
* The to-be system will include: light user administration for account access and restriction, password management, enabling/disabling of company packages, tracking, reservation scheduling.
* Students of this system will be able to register a user profile with first/last names, address, city/state, credit card number, expiration date, and security code.
* Students will also be able to make, cancel, or modify reservations for driving lessons, as well as order driving packages.
* Students will be able to take online classes and practice tests.
* The complete system will tie into the DMV’s API for policy changes, rule updates, and testing 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?*

* The to-be system will be web-based with a wide variety of browser compatibility such as Chrome, Microsoft Edge, Safari, etc.
* This system will be housed in a hosting facility with cloud services to allow DriverPass the flexibility to increase throughput when needed, add and extend company offerings.
* The system will need minimal updates to the system, since the company prefers the to-be system to have minimal IT administration.

#### 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 to-be system will run on a Windows platform.
* A MS SQL server will be needed for user profiles, credit card information, company package offerings.
* The cloud/hosting facility will provide Microsoft updates for the server(s), database(s).

#### 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 to-be systems will create user tags to identify each user and for scalability purposes.
* The system with have built-in error handling to alert administrators.
* Case-sensitive passwords only.

#### 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 to-be system will allow for additions, removal, and modification of user accounts, without impacts to the code.
* The DriverPass system will be flexible enough for future company addition, removal, and modifications to the company’s package offerings.

#### 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?*

* The security of the web servers and databases will be handled and monitored by the hosting/cloud facility.
* The web servers will use a secure socket layer for client browsers to web servers.
* Hosting facility will preform virus and malware scans, and backups.
* Users will be required to use Multi-factor authentication (MFA) to access the DriverPass web site.

### 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 and access when logging in.*
* *The system shall provide online classes and practice test.*
* *The system shall fast, secure, accessible.*
* *The system shall provide users with progress reports.*
* *The system shall show customer the driver instructor.*
* *The system shall provide DriverPass management with reservation reporting.*
* *The system shall provide reservations, cancellations, and modifications for driving lessons.*
* *The system shall offer packages to users with three different driver lessons options.*

### 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 to-be system interface will allow users to make, modify, or delete reservations.
* The interface will let users study in online classes, and practice tests.
* The interface distinguish the type of users.
* The interface will allow DriverPass employees to register, modify, schedule the students.
* The interface will be compatible with mobile devices, desktop computers, laptops, and any internet connected device.

### 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?*

* Our employees have access to the necessary technology for this project.
* Since no budget was talked about, DriverPass has all their finances in order for the project.

### 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?*

* DriverPass has limited IT resources and must rely on external IT competencies.
* An agile Scrum team will be needed to ensure the IT personal as well as the DriverPass employees are involved with the project to be able to hit the ground running after completions of the project.

### 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.*

