# 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 client DriverPass is a drivers’ training company. Driver pass wants to develop a system to help students easily pass their driver tests at their respective department of motor vehicles (DMV).

### 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?*

* In response to the high rate of driver tests at the DMVs, DriverPass wants a system that can help student practice for the drivers’ test online with an option to add on-the-road training with a driver of their choice.
* The system will provide an online interface to register and manage students’.
* The system will provide up-to-date test questions and guidance on driving rules and policies by connecting to the DMV drivers’ training system.

### 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 system will provide students with online access to drivers’ practice sample questions.
* The system will allow students to view the status of their training and update their personal accounts.
* The system will provide a downloadable report on scheduled trainings, and administrative oversight on student accounts.

## 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 will be web hosted allowing students to access their training from anywhere with internet access.
* The system will get automatic updates on drivers’ exam question and policies through the DMV’s.

#### 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 will run on any browser-enabled platform, Windows, Mac, or Mobile.
* The system will store users and application information on a cloud-hosted database.

#### 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 be used by four kinds of users: “Boss”, “IT”, and “Secretary”, and “Student”. Each user will be assigned their respective roles during account creation and administrative roles may require an additional PIN or token.

#### 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 will allow training packages to be enabled or disabled.

#### 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?*

* Users will be authenticated by passwords and administrative use may require additional PIN or token. The system will use a serverless architecture to ensure backup and security at the provider end.

### 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 authenticate user through username and password when logging-in and allow users to successfully log out.
* The system shall allow users to view and modify their accounts.
* The system shall allow student users to reserve, modify, and cancel an appointment for on-the-road driving lessons.
* The system shall receive student payments.
* The system shall allow the student user to view online test progress and driver notes.
* The system shall present students with up-to-date driving lessons and practice tests.
* The system shall produce downloadable reports for offline analysis by an administrative user.
* The system shall allow an administrative user to enable or disable one or more of the training 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.)?*

* The system will interact with users on a web browser. The system will receive username and password using a web form and lead to users to their account page after logging in.
* On logging in a student user will be able to view their online test progress and driver notes.

### 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?*

* Users have access to a Windows, Mac, or mobile device and has access to internet connection.

### 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 user will not be able to use system in the absence of good internet connection.

### 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.*

