# 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 would like to create an application to help train student drivers to prepare for their driving test and help them pass on their first attempt. The application will provide training, practice tests, and on-the-road training appointment scheduling.

### 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 system should be able to schedule, track and manage users accounts
* Manage users training package
* Report on system information, user and employee schedules, and user activity
* Stay up to date with DMV tests and rules

### 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?*

* Create downloadable reports on user changes by creating SQL queries and exporting the information to an excel spreadsheet
* Have an interface for users to manage appointments, card information, and personal information by creating a web interface
* Stay up to date with DMV information by using an API or pulling information directly from the DMV’s web pages
* Provide a forgot password function that will email the user a link to reset their password
* Provide users to choose one of three training packages during account setup with varying features

## 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?*

* Web based environment
* Accessible anywhere on any device with web capabilities
* Automatic DMV information updates

#### 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?*

* Unix based backend webserver
* SQL database for storing website, schedule, and user details

#### 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?*

* Username would not be case sensitive, but passwords would
* Groups should be created to differentiate between Customers, Administrators, and managers
* Monitoring and alerting for schedule conflicts and service outages

#### 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?*

* IT admin should be able to change passwords and driving schedules
* Users should be able to be added and removed as well as having roles changed live

#### 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?*

* User role accounts
* Change logs to track user account and schedule changes

### 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 when logging in
* The system shall track changes to the schedule and what user made the change
* The system shall include three training packages
* The system shall work from any web browser
* The system shall allow passwords to be reset

### 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 shall provide an Online test progress bar
* The system shall include drivers notes from the previous driving lesson
* The system shall provide a user’s personal Information
* The system shall provide a driver photo and student photo
* The system shall provide any special needs the user has

### 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 system shall allow multiple users to be logged in simultaneously
* The system shall respond to touch screen input on mobile
* The system shall integrate with a payment processor

### 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 system shall be static so that users cannot make changes to the packages
* The system shall only be accessible online

### Gantt Chart

