# 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?*

* Enable customers to access improved online driver training classes and practice tests.
* Owner of DriverPass
* Provide online classes and practice tests
* Provide on-the-road training classes

### 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?*

* Client request to build a system that will enable customers to take online driver training classes along with practice tests and on-the–road training as well.
* Improve driver training to reduce the large number of driver test failures at the DMV
* The system will consist of a driver training website that is connected to DriverPass via the internet

### 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 customer account
* Provide online driver training classes
* Provide practice tests
* Provide enrollment for on-the-road driver training
* Customer training reservations
* Customer training packages
* Download data for reporting and tracking purposes

## 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 system
* Cloud based system incorporating data backup and security
* Web pages should load within 5 seconds
* System should update every 24 hours

#### 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?*

* DriverPass will run on a Windows operating system
* DriverPass database will exist and need to connect to the State DMV that has all the proper APIs’ for needed functions

#### 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?*

* System should distinguish between different users such as customers and employees
* System should notify the admin if the reservation system goes offline

#### 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 should accept and process weekly updates from Microsoft
* The system should be able to download and install windows security updates
* The system admin can review and manage these updates

#### 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 system should require a username and password
* The system should have a forgot password link for automatic reset
* The system should allow the admin to reset a forgotten user password
* The system should allow the sysadmin to block user access

### 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 the user by secure login credentials
* The system shall show the customer the following reservation options: Package One, Package Two or Package Three
* The system shall allow the customer to make reservations for driving lessons
* The system shall provide a report for tracking all driving reservations

### 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.)?*

* Welcome screen for customers and employees
* DriverPass should communicate with user via a browser screen from PC or mobile device
* The key pad for touch screen or digital consisting of numbers and option buttons for entries
* Web pages displaying online testing progress and input forms

### 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?*

* Internet is available 24/7 for the DriverPass web portal
* The user account has access to the reservation system from any device

### 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 will stop functioning if there is a power outage
* The system will stop functioning if the internet or connection is lost
* The system will not have uptodate driving rules and policies available should it lose its connection with the DMV

### 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.*

