# 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 is DriverPass, a company that trains drivers for their road test
* They want a system that can collect and store customer information
* They want a system that allows drivers to schedule driving training and access classes and tests online
* The system will allow customers to select a training package that works best for them

### 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 problem they want to fix is the lack of training for drivers before their road test
* They want the system to gather information about the driver, select a training package, schedule training with pick up/ drop off location, access tests and classes online, and access feedback from tests and training
* The components needed for the system are cars for driving, driving instructors, and a web application for classes, tests, and scheduling

### 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 should be able to store customer information and allow customers to access their account
* Customers should be able to choose a training package and pay for it
* Customers should be able to schedule training with a pickup/ drop off location
* Customers should be able to take training classes and tests online
* Measurable tasks included in the system are scheduling dates, test scores, and customer 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?*

* System should run on a computer or mobile device
* System should run with many users accessing it at once
* System should always run fast with no downtime
* System should be updated with every user input

#### 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?*

* System should run on all computer and mobile platforms
* Back end requires cloud storage system for 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?*

* Users will login to their personalized account
* Password and security confirmation codes will be case sensitive
* System should inform admin of problem after many failed login attempts

#### 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?*

* Changes to the user will be made in the database
* System will not be affected by platform updates
* IT admin will need an access code

#### 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?*

* Username and password will be required to login
* Connection can be secure through multi-factor authentication
* Account will be restricted after many failed login attempts
* User will be able to reset password through email

### 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 should allow users to sign up and login
* The system should store customer information in the database
* The system should allow users to select a training package
* The system should allow users to schedule driving training
* The system should allow users to select pickup/ drop off location
* The system should allow users to take classes and tests online
* The system should allow users to access feedback
* The system should be able to process payments
* The system should be able to authenticate users
* The system should allow users to reset their password

### 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 interface needs to be accessible from computer and mobile platforms
* The interface should use colors and logos for brand recognition
* The interface should include pages for login, scheduling, classes, tests, and feedback
* Interface users are administrators and customers
* Administrators will look over the system and keep it secure
* Customers will be able to login, select training package, schedule training, access classes and tests, access feedback, and update information
* The interface will allow the user to interact via a computer or mobile 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?*

* User has a computer or mobile device to access the interface
* User has an email address to sign up
* User has access to Wi-Fi or data
* Cloud storage system is available to store information

### 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?*

* Getting the system completed by the deadline
* Budget for creating a database

### 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.*

