# 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 program must be made to enhance driving skills and make travel safer with consistent updates to training policies
* The client is a driving training project wanting to enhance the driving skills and teachings
* The client wants to enter a market that hasn’t been capitalized

### 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 needs to identify and driver to assess the skills of the driver
* The system must administer online tests with all around training and personal assistant for reservations
* The website will contain a database of Id, test progress, and demographics of drivers

### 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?*

* Online use and offline use
* Push notifications for updates
* Showing student demographics, names, address, payment
* Cloud system capability
* Show test progress of times taken, score, status, and pass or fail progress

## 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 must be web based
* A fast system to allow users to access
* The system should be updated for new features if needed

#### 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 platform must run on linux for better security
* The system uses cloud to manage security, including databases for back end

#### 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?*

* Unique IDs with username and password when first accessed. Case sensitive input with multi-factor authentication and other forms of security for better protection.
* Informing the client of any issues, in case of reports or bugs needing to be assessed.

#### 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 modifications made for users and removal of users
* Full access to the system by IT admin
* Consistent updates when problems arise

#### 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 requiring username and password for login with multifactor authentication
* Cloud system responsible for data exchange with client and server
* System should disable accounts after multiple incorrect logins to prevent brute force
* If a user forgets their password, they get prompted to enter email when setting up account to setup password reset link

### 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 book reservations
* The system shall validate user credentials for login
* The system shall provide practice tests and classes
* The system shall show the driver that customer is paired with
* The system shall provide custom access with user's privileges
* The system shall show tests and work from the user

### 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 must provide options for reservations of driving appointments
* The interface must allow driverpass employees to make changes and update system if needed
* Users should be able to interact with the interface from different devices, mobile phone, laptop, desktop, etc, via internet connection

### 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?*

* No budget setup for system, assuming what is needed is within budget
* Assuming there is access to the system consistently

### 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?*

* A limited time gap of five months for the system to be built without a given budget
* Limitation of number of people working on the website, more employees to build website withing five-month time period
* Agile approach for development

### 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.*

