# 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 wants to fill the void in the market which allows student training in driving tests
* DriverPass wants a system where student drivers can take practice exams and tests
* DriverPass wants a system where student drivers can schedule two hour sessions on a specific data and time

### 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 decrease the amount of test failures
* Provide online practice exams and tests
* System should have ability to be accessed from anywhere, online or offline
* Modify data online and make offline mode read only
* System should be able to be desktop and mobile friendly
* System should have ability to download reports into an Excel
* System should be able to track reservations and cancelations made by users
* System should track the progress of each user
* System should be limit and expand content to users based on their package purchase (choice of three packages)

### 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?*

* Upon completion the system will be able to allow students to take practice exams and tests
* The system will have the ability to be accessed from anywhere on any device
* The system will allow users to download reports and export the data on and Excel spreadsheet
* System design should include UML diagram to help understand and visualize the end to end process
* System should be able to track the progress of users
* System should be able to provide or limit content based on users package purchase.
* Users should be verified on the system with full name, phone number, state, and payment 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 needs to be a web based platform which is accessible from any device
* System needs to be read / write when user is online and connected to the web, but read only when user is not connected to the web

#### 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 needs to be compatible with Windows and Macintosh
* System needs to be compatible with iOS and Android
* System should have cloud-based databases and backups

#### 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 need to have unique names and permissions to their own files
* Users can use federation IDs to login
* Users need option to enable 2FA

#### 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?*

* Users need to be able to modify their ability to share and remove access to files from other users while connected to the web
* Permissions should be JSON and API based

#### 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 needs unique username
* User needs Password to equal minimum-security requirements
* Users require ability to use 2FA
* Users will be logged out of system after 15 minutes of inactivity
* Users will have 3 failed login attempts before 4th failure enables 5 min lock out

### 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.”*

* System needs to validate users
* System needs to provide practice test and exams
* System needs to provide test and exam history
* System needs to have ability for user to export files into Excel
* System needs ability to schedule / modify / cancel in-person driving lessons

### 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.)?*

* User interface needs to be different based on the roles for system user
* UI needs to have same color scheme in different views: desktop, tablet, mobile
* UI needs to resemble a working interface to display a dashboard for users to view progress, personal information, and any 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 should be reminded to take a real state driving test and delete account once state test is passed
* Users should be reminded to update any personal information to ensure all information is current

### 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?*

* Administrators need to manually log into the system to update any DMV processes to ensure that the DriverPass process and produces are compliant with each state’s standards

### 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.*

[Insert chart]