# 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 is the client, their aim is to provide a tool to train students for driving tests.
* The client noticed that 65% of students taking the drivers license exam fail, as they are just studying previous tests.

### 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?*

* System can work online and offline, offline will be read only
* Online classes and practice tests
* Employees need different levels of access to data in system
* Track which user makes changes
* Reservation capability for students to schedule driving lessons
* Reservation function includes who is assigned to student, as well as ability for students to modify their reservation
* Three packages offered ability to disable package
* Constant updates as DMV changes their compliance standards
* Cloud based system

### 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?*

* Reserve, modify, and cancel driving lessons
* Take online classes and practice tests
* Register customers over the phone, and reset their password if necessary

## 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?*

* Cloud based application
* Should run very fast, shouldn’t require too much computing power, as it should be usable on any device
* Should connect to DMV and update as DMV updates their standards

#### 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?*

* Requires backend storage of all tests, answers, and classes
* Should run on all major OSes with a focus on Windows and Mac
* Also requires backend storage of reservations and 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?*

* Users should have set security clearances
* All changes made to the system should be tracked, including user identification
* Admin should be notified when any change is made, with urgency being sent to admin if 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?*

* System should be able to reset user details at any time without changing code
* Admin needs access to backend data structures to add new curriculum as needed

#### 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 needed for user to login, option for 2FA
* Use HTTPS & SSL to secure connection
* Admin can reset user password at any time

### 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 check username and password when logging in
* The system shall be able to book reservations
* The system shall provide practice tests and classes
* The system shall offer three driving packages
* The system shall have role-based access

### 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.)?*

* Shows online test progress, special needs, driver photo, student photo, driver notes, and student information on home page
* Interface will be used by students, drivers, and admins
* Student can book and modify appointments, take practice tests, and take classes
* Drivers can see information of students, and their reserved times
* Admin can modify packages, as well as see all reservations

### 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?*

* This design assumes all users have access to a smart device or computer
* Assumes that users have some experience with similar sites
* We are also assuming that we will have the necessary budget from DriverPass to host all the necessary data on the backend

### 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?*

* Around 5 months to create this system
* May need more people to create the site
* We were not given a budget by the client, so this may end up being a limitation

### 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.*

