# 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 a company called DriverPass. They want a system to be able to train students for their driving test.
* They need to be able to access the system from any computer or mobile device, they must be able to download reports.
* Liam, the boss, must be able to have full access over all accounts and he must be able to track all accounts to see who has made reservations.

### 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?*

* Too many people are failing their driving exam, so their solution is to make a system for people to pass their exam
* There are 3 packages that the customer can pick:
* Six hours in a a car with a trainer
* Eight hours in a car with a trainer and an in-person lesson
* Twelve hours in a car with a trainer, an in-person lesson where they explain the DMV rules and policies as well as access to their online class
* Each driving session is two hours long so their will me multiple sessions per lesson.
* The system must be flexible in case Liam wants to add new packages or remove some others

### 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 must allow customers to schedule appointments and pay over the internet.
* There must be a way for the customer to set their pickup location
* It must run off of the internet on the cloud
* The interface must be similar to the sketch provided

Must also have a way of showing the customers progress in their tests and display a status of passed failed or in 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?*

* Should run on all browsers
* Web based and application for mobile devices
* Should be updated every time a user reserves a slot, changes any settings to their account or signs up for a class

#### 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?*

* Desktop (Windows, MacOS, Linux)
* Mobile (Android, iOS)
* Backend framework such as SQL or MongoDB for the 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?*

* Case sensitive inputs
* Users must have a unique username/email address
* Alert the admin if a user cannot access their account and wants to reset password

#### 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?*

* Check for various existing functions before calling them
* Adding and removing or modifying functions should all work without needing to change code
* Platform updates get rolled out during a time where there are no sessions in the day, ex. 12AM
* IT admin needs the highest privilege in order to update the system

#### 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?*

* Verified email is required
* Unique username and password required
* If there are too many attempts in a small period of time, alert the user that they are too many attempts and that they will be locked out after ‘x’ more tries.
* Ensure end to end encryption is active when users log on or update data in the server

### 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 display course content
* Shall store and display grades
* Users shall be able to view and submit homework
* Shall be able to take quizzes
* Shall be able to edit account information

### 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.)?*

* Must display logo with information on what the website even is
* Must show online test progress
* Must show users information such as name, address, phone number etc
* Must show driver notes and resources to help users study
* On desktop, users can click on icons and boxes while on mobile they can tap

### 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?*

* Assume that there are teachers and students involved in the courses
* There are graded assignments that you can take along with quizzes
* Students know how to use basic technology and navigate a website
* Assume that students at least have reasonably modern technology that can handle a basic website

### 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?*

* If there are no students or teachers taking and teaching the course, the system will not work
* Not everyone has access to computers and phones
* Limited time to complete the project
* Must stay within budget

### 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.*

