# 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. They want to make a hub for student drivers where the can schedule on-road driving exams, practice exams and learning modules in one place. They want it to accessible to different users, administrative and students as well as tracking student progress.

### 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?*

*DriverPass wants to increase the rate of students passing their DMV test, lowering the rate of failure. Some components needed are user access at different roles. Each role is granted different access. Admin can modify, user can use to schedule, study and take practice exams. A reservation system, scheduling/calendar, reporting system and customer support.*

They want to increase the rate of passing students taking their driving test. They noticed a high failing rate and want to fix it by making an online structured learning environment.

### 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 program should let you register and track courses. Track progress of courses and test. Manage and contain multiple training packages. Be DMV compatible. Allow staff to manage roles and have user friendly customer support.

## 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 should be cloud-based based and web-based. The program should on browser and mobile devices. It should also update DMV rules quickly to be in compliance.

#### 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?*

It should be web-based in the cloud. Multiple-platform to run on multiple devices. Needs a secure database with security tools.

#### 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?*

Each user should have a unique user name and password. It should be case-sensitive and avoid simple patterns. Biometrics for mobile devices . activity should be tracked as well as unusual device requires a notification alerting the user.

#### 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?*

Updates should be checked to prevent outages and breaking of the code. IT admin should have been able to change packages without code changes.

#### 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?*

If a user forgets their password, they should have a usable email or number to send a code to on file. Brute force hacks should lock the profile a d notified by the user. Encrypting the days can secure the travel of data between the user and 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 should validate the user. It should let students register and schedule driving sessions. It should track the student’s usage, progress and the car linked. Admins should be able to block, reset and modify user accounts. The system should print and keep reports and keep a change log. The system should notify and update any DMV updates.

### 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 users are students, IT, the owner, secretaries. The secretary should manage the reservations and update or modify them. IT staff should be able to reset passwords , disable accounts and packages. Access the account on pc and mobile. Students should be able to register , schedule, take and view test, view progress.

### 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?*

An assumption made is that users will have internet services. Another is that they have an email address. Another is IT has the skills to manage cloud tools, and user settings.

### 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?*

Modules need developer’s support . System updates need the DMV to use accurate data in a timely manner. Budget and team may be small at the start.

### Gantt Chart

*Please include a screenshot of the GANTT chart that you created with Lucid chart. Be sure to check that it meets the plan described by the characters in the interview.*

