# 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 purpose of this project is to allow for students who may be struggling with driving or would like more time with an instructor or to take practice tests to allow them to do so.

### 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 team wants the system to be available for students to take practice exams, schedule driving time, and speak with instructors.
* They want people to be more prepared for their DMV exams.
* One on one training with an instructor and online practice exams.

### 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 should be able to allow students to add and remove packages, schedule lessons, and take online practice tests.
* It should also be able to track reservations and see which student is using which car.
* And also be able to look at a students 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?*

* It should be a web-based application so most users should be able to access the application with no issues.
* The system should be fairly quick since it is a web-based application.

#### 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?*

* I would recommend windows, since it is very easy to use and inexpensive to support.
* I would also recommend a database to store the information such as, cars, drivers, instructors and scheduled times.

#### 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?*

* You can have different levels of users, say administrator, instructor, and student.
* No, I would not make it case sensitive.
* The system should inform the admin if a password was entered multiple times wrong or if someone is requesting a password change.

#### 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?*

* Yes an admin should be able to change users as a students leaves the DriverPass system.
* The system will need to be updated by the developers or system administrators.
* I feel the IT admin will have admin control to allow for changes and updates.

#### 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?*

* To log in you would need a username/email and password.
* To secure the connection the website will have an SSL or use HTTPS for encryption.
* If there is a potential brute force attack, the system could either time out or lock the user out and make them contact the system admin.
* If the user forgets the password, we will implement a forgot password system where the user would have to verify it is them through the email on the account and follow the reset instructions.

### 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 allow for user authentication.
* The system shall be a web based application.
* The system shall track user activity.
* The system shall provide different forms of reporting.
* The system shall allow users to reset their passwords.
* The system shall display user progress.
* The system shall allow for study material that is up to date.
* The system shall allow for users to be contacted by instructors
* The system shall allow for users to add or remove packages.

### 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.)?*

* Homepage
* Create account/view account
* Courses/packages
* Study material
* Contact page
  + User – they can create an account, add or remove packages, and look trough the study material and look at their progress.
  + Instructor – Look at the schedule to see who will be driving.
  + IT admin – full access over accounts and updates pages.
  + Secretary – Can schedule courses.

### 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?*

* May need future development for a cell phone app.
* Making sure the tests are up to date with the DMV.
* Making sure the site is available 24/7.

### 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?*

* With it being we based, it will rely on internet connection.
* There will be an upfront cost for the hardware for the databases and the need for maintenance.

### 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.*

A screenshot of a calendar

Description automatically generated