# 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 has noticed there are very few tools to help drivers pass the driving test.
* The client would like help to create a system in the form of a website that will provide students access to online practice exams and get on the road training.

### 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 would like the system to aid the students to be able to pass the driving test easier.
* DriverPass wants to give students access to online classes, practice exams, and on the road training provided by DriverPass instructors
* The system should be able to allow students to reserve, modify and cancel their bookings they make on the website
* The system’s data should be able to be accessed from anywhere as long as there is an internet connection
* The system should have security features such as, users, passwords, and data privacy.

### 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 allow students to access practice exams, classes, and book on the road training.
* The system also allows different levels of users to maintain the website and create, modify and cancel bookings made by users.
* Certain users will be able to make changes on the website as well as improve the system after deployment.
* We must pick an operating systems for this website to work on.

## 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 web-based environment will work best in the form of a website using the cloud.
* The system should be fast enough to load pages, bookings and modify accounts without complications.
* The system should be updated with any new information given by the DMV/state.

#### 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?*

* The system should run on Linux to use the cloud based tools needed.
* The system will use the cloud to keep security managed and that will also use databases required on the backend of the system.

#### 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?*

* The users will create their username and password that will be case-sensitive for better security.
* The system will inform the admin of any problems ASAP as to keep the downtime to a minimum.

#### 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?*

* The system will allow changes of users without needing to change anything in the code.
* The system will introduce any platform updates as more features can be accessed. DriverPass will be able to decide what features they would like to add to the website as they come available.
* The IT will have full access to the system to be able to make any changes that may be necessary. They can also remove any former employees that no longer should have access.

#### 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?*

* The user will need a username and password to login. There will also be 2-factor authentication for security.
* The cloud will be responsible for the data exchange between the client and server.
* The system will be able to disable any accounts that have been hacked into to prevent the hacks.
* If a user forgets their password then they can use the forgot password to get a password reset link sent to their email account they put in.

### 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 will validate the user credentials(username/password) when logging in.
* The system will book reservations for on the road training when made by the user.
* The system will keep practice exams and classes available to students.
* The system will show the drive instructors the student they are paired with.
* The system will run fast on the website.
* The system will provide varied access based on the user’s privileges.
* The system will keep track of what the student has completed for their work and exams.

### 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 interface will provide the customer with the option to make reservations for on the road training packages, taking online exams and classes.
* The interface will allow employees to make changes to the system as needed.
* The interface will be able to be accessed on mobile devices, computers or most devices able to connect to the internet.

### 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?*

* There was no budget given for the system. Due to this we can make the assumption that the things that we have to create will all be within budget. This includes the system, Linux, and using cloud technologyies

### 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?*

* We have a little under four months to complete this system and we do not have a budget.
* We have only a few people for this project as well as one returning from vacation in the middle of it. As of now we may need more manpower or a bit of a longer timeframe.
* The technology seems to be available.

### 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.*

Chart

Description automatically generated