# 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 noticed the lack of options available for helping drivers pass the driving test.
* DriverPass wants to alleviate this by creating their own website which can provide new drivers tests and additional practice. Also, offer the opportunity to schedule an appointment for the hands-on driving practice.

### 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 the system to help people pass the driving test and decrease the amount of failing the test.
* The solution to this problem would be online tests along side hands-on practice on the road aswell.
* The system will be secure assuring that a wide range of users may have access including safety of the safety of their information.
* Their will be 3 options available in the form of packages, as well the ability to book and cancel appointments on the website.

### 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 people to take practice tests and take part in additional online classes.
* The system should be able to allow individuals to book, modify, reserve, or cancel their hands on road training.
* Designated employees will be able to implore changes if needed towards the website.
* The language and type of platform will need to be chosen for the website.

## 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 environment the system to run should be on the cloud
* The system to should be fast and smooth enough to allow for users to use it without issue.
* The system should be fitted with new features which would immediately be updated to the website. Also, bug fixes and stability adjustments.

#### 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?*

* Since the vast majority uses windows than Windows will be the platform it runs on.
* The back end may require additional tools so the mobile browser can adjust to the user interface.

#### 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?*

* To distinguish different user’s cookies will be used, which should help in the identification process.
* The input will only be sensitive when it involves the password
* The system should automatically alert the admin of any error every day, but critical errors will take higher priority so it will be as quickly as possible.

#### 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?*

* No change to the code will be necessary for any adjustment the user can make changes to keep the app updated.
* The system will adapt to platform updates by initializing the 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?*

* A password will be required for the user to login
* To secure the connection between the client and server two step authentication via text will be implemented
* If brute force is used from a hacking attempt the account will lock after 6 attempts and the user will be notified
* If the user forgets their password than the option for resetting the password through email is an option

### 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 validate the user
* The system shall schedule, track, and book appointments
* The system shall allow for the user to take practice tests and participate in online classes
* The system shall send a text message to the users phone for additional validation
* The system will lock the account after 6 attempts, thus notifying the user.

### 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 different users of this interface will be web based
* What each user will need is a desktop or mobile phone
* Customers will be able to interact with the interface by booking, canceling, rescheduling appointments. Along with checking their purchase history and take practice tests while participating in in online classes if interested.

### 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?*

* Something not specifically addressed was how would the user be able to contact customer support
* The assumption is all users will have internet access to use this system and be able to access their email and text messages.

### 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?*

* The limitation of time to complete and unable to prepare for unexpected changes.
* I believe technology since it has to be compatible with all browsers and platforms.

### 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.*