# 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 create a product that allows for training and practice for new drivers. This in turn allows for safer public roads, drivers are provided the most up to date information and policies. This allows for cohesion with the DMV for future changes. When it comes to products, there is also a void market.

### 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 be able to complete online testing, road practice and testing, accessibility from anywhere on the net, create reservations by phone or online with time and day, identify driver and customer. The problem this is solving is ensuring more trained drivers on public roads increasing safety. Components needed for the system should include: Driver notes, online test progress, driver photo, student photo, and general information of the student.

### 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?*

* After completion, the system should be flexible to allow for changes in the future, be available offline in case of downtime or user accessibility, updates including reservations, notifications for driver and student, cloud base operability. To include test progress which should show number of times taken, grade, and status. Lastly user inputs should include name, address, payment, and any other pertinent information.

## 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 will need to run on many different environments so that the same information is accessible from anywhere. This means Android, IOS, and Web OS. The system should be fast enough to simultaneously update on web OS and application when information is updated. Regular updates need to be completed when there are important changes to security, many users report crashing, and new laws and regulations come out impacting driving.

#### 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?*

* There are only a few constraints as far as platform goes. They are based on IOS, android, and Web OS.

#### 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?*

* Distinguishing between users is done by using username and password prior to accessing anything. Case sensitivity will be used due to improved security when it comes to passwords. After 3 failed attempts, the system will inform admin of a problem. Also, during a password reset, and answer to security questions.

#### 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 ability to make changes will primarily be done by adding code, removing code, and changing the code itself. Platform updates are adopted by completing updates across IOS, android, and having to shut down web based platform during low usage hours.
* IT admin access will need access to the source code, being able to change the code, and changes and updates to new laws and regulations changed by the DMV.

#### 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?*

* In order for a user to login, they need a username and password. When a network is not secure, user should be notified, and in case of intrusion user and admin should be notified. If the user forgets their username or password, they are able to answer a security question to be able to reset their password, reset their password, and call for help.

### 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.”*

* System functions should include: The system shall validate user credentials when logging in, The system shall update any documents and information between platforms, The system shall allow a reset of a password, The system shall allow information to be modify on any platform, The system shall tell the progress of the class and hours logged, The system shall be updated with any new regulation or laws, The system shall show online test progress, The system shall display user information, The system shall if needed.

### 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.)?*

* User interface needs will be dependent on the platform the user is using. Web based users may be using a mouse and keyboard for navigation where IOS and android users will be using a phone / touch screen capabilities. The interface should be able to display Student information, student photo, driver photo, driver notes, online progress, and special needs requirement.

### 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?*

* Design keys to take are that the user is familiar with the interface they are using; meaning an iPhone user is familiar with IOS or someone is familiar with the laptop they are using. Another thing to consider is that they understand English or whatever language the platform will be using.

### 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?*

* Limitations will include resolution of display size. Viewing information on a computer will be a lot easier than on a phone. Errors that will occur during the creation of the program and how much time it will take to create a fix. Budget could be a limitation if things start to go wrong. There is no real technological limitation as far as creation goes.

### 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.*

*![Table, letter

Description automatically generated]()*