# CS 255 Business Requirements

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?*

* Driver pass wants to design a system to help students prepare to pass driver test.

### 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?*

* Driver pass sees a lack in the preparation process of driving test. Driver pass has come up with the idea to help students prepare for the driving test. The students would have access to the latest driving specifications as well as schedule in car driving lessons.

### 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?*

When the system is completed, students should be able to access content from the site anywhere. The students will have a username and password to login, when the student’s login they should be able to see test that were taken and where they are at with their learning experience. The students should also be able to schedule driving lesson by entering their first name, last name, address, phone number, state, and their credit card number, expiration date, and security code. It should also include the pickup location from where the customer wants to be picked up. It should also ask them for a drop-off location, which should be the same as the pickup location. Driver pass associates should also be able to access data using excel to download reports and be able to disable packages that are no longer available. Security should be able to access system to update passwords if forgotten and be able to block users. The system would also be linked to the dmv so that they can makes updates on rules and regulations. The system will run off the web through the cloud.

## 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.*

* Instructor must have access to track and report user progress, compliance, and engagement metrics.
* The system shall direct user to homepage after login
* The system shall not allow access without credentials must accept SSO
* The system shall support current versions and previous supported versions of modern web browsers
* The system must have ability to determine student or instructor no longer exists based on ecr rest api data feed/or flat file and will deactivate record with in lms

#### 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 should be web based accessible on laptops or mobile devices. Should be able to run on iOS and android
* The system should be updated when new features and bug fixes are released. The system should be updated whenever the dmv updates guidelines

#### 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 will use a cloud-based database
* The system will run on Linux

#### 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 case sensitive username and password. The users may have different levels of access.
* The system should alert the admin of bugs or and systems errors immediately

#### 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 IT admin should have full access over all accounts to reset passwords if someone forgets or to block access if someone is let go.
* The user should be able to reset password immediately without coding.

#### 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?*

* For a user to login, they must have a username and password
* Cloud services should add an additional security level.
* In case of a brute force attack, the user has three tries to login into account after the three tries the account will be locked.
* Once the account has been locked for 24 hours the user must be able to verify account using a provided email or phone text.

### 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 must allow users to log into their account by entering their email and password
* The system must allow students to register and drop classes
* The system must allow access from mobile devices
* The system must allow Users to send notifications
* The system must allow users to reset their password by clicking on "I forgot my password" and receiving a link to their verified email address.

### 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 user should be able to make and change reservations
* Cancel reservations
* The users should be able to make changes only to their accounts
* The admin should be able to make changes if needed to all accounts

### 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?*

* User should have internet access
* User should have registered an account with driver pass
* User has a unique username and password
* User has an email or phone number registered as a backup security feature

### 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?*

* Should be done by May 8
* Must internet access
* Must have password and username
* Must be registered with driver pass

### 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.*

[Insert chart]

Graphical user interface, application, Excel

Description automatically generated