Gathering information for login & searching how linking can be done.

Step 1 **(HTML and CSS)**

HTML documents are designed to be displayed in a web browser. There are more than a hundred of HTML elements you can choose to create an HTML file.
Let's start from creating **index.html**. I will explain a bit about what is included:

- **Bootstrap 5**, a framework to create a responsive web page
- **login.css**, an extra CSS (Cascading Style Sheets) to style your **login.html** in addition from the Bootstrap .
- A login form with the inputs for username and password and a button
- **Sweetalert**, a JavaScript library for easily creating nice popups.
- **login.js**, JavaScript file using in **login.html** to call a login **API**

Step 2 -> after that we need to Create **login.css**

Step 3 -> Create **index.html** to show the information of the currently logged user. Therefore this page will be only accessible when logged in.

Step 4 -> Create **index.css**

Step 5 -> **Login with API (JavaScript)**

Create **login.js** to call an **API** for login based on JWT (JSON Web Token) Standard provided by MeCallAPI.com.

API URL: https://www.mecallapi.com/api/login

Method: POST

Sample body (JSON):

```
{
    "username": "karn.yong@mecallapi.com",
    "password": "mecallapi"
}
```

Sample Response (JSON):

```
{
    "status": "ok",
    "message": "Logged in",
    "accessToken": "eyJhbGciOiJIUzI1NiIsInR5cC..."
}
```

The **accessToken** from the response represents the authorization of a user. Therefore, we will check whether the user is logged in by this **accessToken**.

- In the JavaScript (line 1–4), we will first get the **jwt item** from **localStorage (**The localStorage allow to save key/value pairs in a web browser). If **jwt** has value which means that a user is logged in, the web browser will load index.html.
- We create a function **login** which will execute when user click **Login** button in login.html. In this function, we use **XMLHttpRequest** to request an API for retrieving response in JSON. If the response **status** is **ok** (meaning that login successful), we will save the **accessToken** value to **jwt** in **localStorage** and show the popup (**Sweetalert**). Once the user click ok in the popup, the web browser will load index.html.

Step 6 -> Create **index.js** to request the **API** for retrieving the information of the currently logged user.

API URL: https://www.mecallapi.com/api/auth/user
Method: GET

*The API request header needs to have the value of access token of the user as Authorization (Bearer) to response back with that user information.

- In the JavaScript, we check if **jwt item** from **localStorage** has value or not. If it is not, the web browser will load login.html.
- We create a **loadUser** function to retrieve and display the currently logged user information in index.html**.** Basically, we use **XMLHttpRequest** to call the API with **jwt** in the

Authorization header (Bearer). Note that this function will be called when loading index.html.

- We create a **logout** function to remove **jwt** from **localStorage** then load login.html on the web browser. This will be called when click **Logout** button.

Following these steps, it will allow us to make an HTML page. In doing so, it should be created and linked to our open source. But this requires us to learn about HTML language which is new language for us. Also, we need to search in our open source if this can be done or if there is some restriction to the code that wouldn't make this possible.

Abdulaziz Alhussein & Yousra M. A. ALAKLOUK