Server API

Server API that provides the functionality to register, login, logout, get authorization token, get all API routes, get account types, and get profile info

**Overview**

Backend API that offers the ability to register, sign in, sign out, obtain an authorization token, retrieve a list of all API routes, access account types, and retrieve all profile information.

**Task** **Details**

* **How To Setup & Run:**
  + Navigate To Server Folder
  + Create Virtual Environment
  + Activate Environment
  + Run pip install -r requirements.txt
  + Run python manage.py runserver
* **Register:**
  + Creates a new user in the system.
  + **Route**: /api/register/
  + **No Required Headers**
  + **Body**: Provide the following attributes

{"username" - "password" - "email" - "firstName" - "lastName" - "gender" - "dateOfBirth" - "accountType"}

* **Login:**
  + Allow an existing user to log into the system.
  + **Route:** /api/login/
  + **Headers:** Set the value of the **X-CSRFToken** header with the value of **csrftoken** attribute from the **Cookie** header.
  + **Body:** Provide the following attributes

{“username” – “password}

* **Get Token:**
  + Obtain authorization token for the logged in user.
  + **Route:** /api/token/
  + **Headers:**
    1. Set the value of the **X-CSRFToken** header with the value of **csrftoken** attribute from the **Cookie** header.
    2. Graphical user interface, text, application

       Description automatically generatedSet the value of the **MAC** header with the value of the MAC address.
* **Logout:**
  + Must obtain an authorization token before logging out.
  + Log out the currently logged in user, if the user logs in again the session expiry date is extended with a fixed amount of time.
  + **Route:** /api/logout/
  + **Headers:**
    1. Set the value of the **X-CSRFToken** header with the value of **csrftoken** attribute from the **Cookie** header.
    2. Set the value of the **MAC** header with the value of the MAC address.
    3. Set the value of the **Authorization** token with the value of the authorization tokened obtained before.
* **API Routes:**
  + Must obtain an authorization token before using it.
  + Return a list that contains all API routes.
  + **Route:** /api/help/
  + **Headers:**
    1. Set the value of the **X-CSRFToken** header with the value of **csrftoken** attribute from the **Cookie** header.
    2. Set the value of the **MAC** header with the value of the MAC address.
    3. Set the value of the **Authorization** token with the value of the authorization tokened obtained before.
* **Profile:**
  + Must obtain an authorization token before using it.
  + Return all profile information of the currently logged in user.
  + **Route:** /api/account/profile/
  + **Headers:**
    1. Set the value of the **X-CSRFToken** header with the value of **csrftoken** attribute from the **Cookie** header.
    2. Set the value of the **MAC** header with the value of the MAC address.
    3. Set the value of the **Authorization** token with the value of the authorization tokened obtained before.
* **Account Types:**
  + Get all account types that can exist in the database.
  + **Route:** /api/info/accounttypes
  + Does not require any header or a body.

**Possible Errors**

* **Bad Request (400):**
  + The absence of a required header or a body attribute results in a bad request. (ex. Not providing the username in the login API).
* **Unauthorized (401):**
  + The absence of authorization token , X-CSRF token, or the MAC address results in unauthorized error.