**Steps to Execute the Project:**

Sustainable Energy Solutions: Predicting Residential Electricity Consumption Using Deep Learning Techniques

# Download the Project If you have the project as a ZIP file, extract it and navigate to the folder.

# 2. Set Up the Virtual Environment

It's essential to set up a virtual environment for project dependencies.

* **python -m venv venv**
* **venv\Scripts\activate**

Activate the virtual environment to isolate the project dependencies.

# 3. Install Required Libraries

Once the virtual environment is activated, install the necessary libraries from the 'requirements.txt' file:

* **pip install -r requirements.txt**

# 4. Check Project Folder Structure

Ensure your project folder is structured correctly. A typical folder structure should look like:

# 5. Run the Flask App

In the project folder where `app.py` is located, run the Flask app using:

* **python app.py**

The application should now be running on your local server. Open your browser and navigate to:  
**http://127.0.0.1:5000/**You should see the Home page.

# 6. Test the Features

After running the app, test the following functionalities:

* Welcome page with login and register options
* Prediction input form for residential electricity consumption
* Output prediction

Verify that all the components are functioning properly.