

User & Admin Stories

User Stories:

1. User registration:

As a new user, I want to register in the Energy Insight system.

I should be able to provide a unique username, a secure password, my email, and my country during the registration process.

After successful registration, my details should be stored in the user database (`user_database.sqlite`).

2. User Login:

As a registered user, I want to log into the Energy Insight system.

I should be prompted to enter my username and password.

Upon successful login, I should have access to the user menu with various options.

3. View the Energy Data Summary:

As a user, I want to view a summary of my energy consumption and production data.

The summary should include details such as ISO Code, Year, Coal Consumption, Coal Production, Oil Production, Oil Consumption, Gas Production, and Gas Consumption.

4. Update profile information:

As a user, I want the ability to update my profile information.

I should be able to modify my password or contact details as needed to keep my information accurate.

5. Compare energy data:

As a user, I want to compare my energy consumption and production data with global averages or those of other users.

Utilizing keys such as ISO Code and User ID, I should be able to perform accurate analysis.

6. Search Energy Data:

As a user, I want to search for specific information within my dataset.

I should be able to use keys such as ISO code, year, or other relevant criteria for quick retrieval of data.

7. Access Energy Insights:

As a user, I want to access insights on coal, oil, and gas consumption and production trends based on my energy data.

Utilizing keys such as ISO Code and User ID, I should be able to perform accurate environmental impact analysis.

Admin Stories:

1. Admin Login:

As an admin, I want to log into the Energy Insight system.

I should be prompted to enter my admin ID and password.

Upon successful login, I should have access to the admin menu with various options.

2. View the User Management Overview:

As an admin, I want to view a comprehensive list of all registered users.

The list should include details such as user IDs, usernames, contact details, and user roles (admin or user).

3. Add a new user:

As an admin, I want the capability to add new users to the system.

I should be able to assign a unique user ID and provide essential details, including username, password, contact details, and user roles.

4. Update User Details:

As an admin, I want the ability to update existing user details.

Modifications should be allowed for usernames, passwords, contact details, and user roles.

5. Remove User:

As an admin, I want the authority to remove users from the system.

This action should ensure proper management of user accounts and associated data.

6. Access user data:

As an admin, I want to access detailed information about any user, excluding their password.

I should be able to retrieve information using the user ID as the primary key.

7. Perform energy data management:

As an admin, I want to perform Create, Read, Update, and Delete (CRED) operations on energy data for any user.

The User ID should be utilized as a foreign key in the Energy Data table, linking data to the respective user.

8. Access Global Energy Insights:

As an admin, I want to access insights on global trends in coal, oil, and gas consumption and production.

Utilizing keys such as ISO Code and User ID, I should be able to perform accurate analysis and decision-making.