Proposed Solution:

1. System Design:

- Define the architecture and components of the automated system.

- Determine how data will be collected, stored, and processed.

2.Data Collection:

- Identify sources of energy consumption data (e.g., IoT devices, sensors).

- Ensure data accuracy and reliability.

3. Data Analysis:

- Develop algorithms/models to analyze energy consumption data.

- Identify patterns, trends, or anomalies.

4. Visualization:

- Create user-friendly visualizations (dashboards, reports).

- Enhance decision-making through clear representation of energy consumption metrics.

5. Decision Support:

- Implement features for decision-making support.

- Include alerting systems, efficiency improvement recommendations, and scenario analysis tools.

6. Scalability:

- Ensure the system can scale to manage energy consumption data across various sectors.

- Make it adaptable to different environments and requirements.

7. User Training and Support:

- Provide training for users interacting with the system.

- Ensure the system is intuitive and user-friendly.

8. Security:

- Implement robust security measures to protect data integrity and confidentiality.

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