

## **ENERGY PROVIDER DATABASE**

Our attempt to build a database of energy providers is intended to address the difficulties that our company has had managing and providing energy services to clients.

As an energy supplier, our duties include managing client accounts, guaranteeing inexpensive and dependable access to energy, and upkeep of a network of equipment and infrastructure. Because of the increasing focus on energy efficiency and sustainability, our database project includes features to track and analyse energy consumption patterns, identify areas for improvement, and develop energy efficiency programs for your customers, customer relationship management, and maintenance management. With this database our employees will be able to manage customer information, track energy supply and demand, and schedule maintenance and repair tasks.

We have also incorporated billing and payment management features in the database, allowing employees to manage customer accounts, generate invoices, and process payments. Adding data analytics and reporting tools into our database project, has allowed us to generate detailed reports on energy usage, customer behaviour, and infrastructure performance. These reports can help you make data-driven decisions and improve the efficiency of your operations. We keep track of our infrastructure assets, such as meters, switchgear, and transformers, using an asset management system.

As a result, the network's overall performance is enhanced, downtime is reduced, and maintenance and replacement schedules are optimized. A website, or webpage dashboard, that the database administrator can use to enter queries and view the results directly on the website is included in our energy provider database project overall. The website would facilitate database visualisation and upkeep. This will increase our operational effectiveness and productivity while also enabling us to offer our consumers dependable and reasonably priced energy services

### **Group Participation Breakdown**

Ahsan:

- MSSQL Database server with tables
- Webform

Jayati:

- Er diagram

Harsh:

- Schema