ABSTRACT

"Hybrid Energy" is India's pioneering fuel delivery company, disrupting the conventional refuelling methods by introducing on-demand fuel services at the customers' doorstep. This revolutionary approach has reshaped the accessibility and convenience of fuelling for both individual and commercial vehicles, resulting in significant market success. The fuel delivery system developed by "Hybrid Energy" is custom-tailored for vehicles, offering a user-friendly platform for customers to request fuel refills using their smartphones or internet-connected devices. Customers interact with the "HYBRID ENERGY" application to place orders for fuel services from registered service providers.

Upon receiving a customer's request for fuel delivery at a specified location, the service providers initiate the delivery process. They employ real-time location tracking to ensure the prompt and efficient delivery of the requested service. This innovative system not only enhances convenience but also elevates safety and efficiency in the fuel delivery process, making it a transformative solution for the automotive industry.

Features implementing in Mini Project:

The system facilitates three primary user panels:

1. **Customer Panel:**

   - ➢ **Registration/Login**: Enables customers to create accounts or log in for service access.
   - ➢ **Fuel Selection**: Allows customers to choose the type of fuel and specify the required volume from their preferred pumps.
   - ➢ **Cost Estimation**: Provides real-time cost estimates for fuel deliveries.
   - ➢ **Profile Management**: Allows customers to update their profiles with personal details.

2. **Pump (Fuel Station) Panel**:

   - ➢ **Registration/Login:** Enables pump operators to access the system.
   - ➢ **Order Management**: Allows pump operators to receive and manage orders placed by customers.
   - ➢ **Profile Management**: Permits pump operators to update their profiles and station details.

3. **Delivery Agent Panel:**

   - ➢ **Registration/Login**: Provides delivery agents with secure access to the system.
   - ➢ **Profile Management**: Allows delivery agents to maintain their profiles with personal information.

4. **Admin Panel:**

   - ➢ **Login:** Grants secure access to the admin dashboard.
   - ➢ **Booking Management**: Empowers administrators to oversee and manage customer bookings and deliveries.
   - ➢ **Cost Management**: Provides control over pricing structures and adjustments.