Online Fuel Demand System

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ABSTRACT

The Fuel Delivery on Demand application to develop delivery on demand fuel depends on the user order and request. Due to growth of automobiles in market, fuel consumption became more. In existing system, unfortunately because of some reason if vehicle stops due to lack of petrol, it will be very hard for the owner to push the vehicle to the nearest petrol pump. In some cases people go to new location and sometimes they won't be having any idea of the gas stations to refuel their vehicles. The proposed system to develop application to deliver the fuel to those who need to refuel vehicles at any location and time.This refers to a web-based digital system that operates over the internet and focuses on addressing the demand for specific fuels, namely petrol, diesel, and compressed natural gas (CNG). It is a software program accessible through a web browser, allowing users to access and interact with the system using various internet-connected devices.

Keywords: fuel, online fuel, Demand, Supply, fuel station.

1. INTRODUCTION

The Fuel Delivery on Demand application to develop delivery on demand fuel depends on the user order and request. Due to growth of automobiles in market, fuel consumption became more. In existing system,unfortunately because of some reason if vehicle stops due to lack of petrol, it will be very hard for the owner to push the vehicle to the nearest petrol pump. In some cases people go to new location and sometimes they won't be having any idea of the gas stations to refuel their vehicles. The proposed system to develop application to deliver the fuel to those who need to refuel vehicles at any location and time. In this application three modules using user, fuel station, admin. Admin can verify Fuel Station details, then it will see user modules. Fuel Station can add their branch information like address and location and kind of fuel provide. User can search by locality or station name and book the fuel on online . Our objective develop using PHP java script and MySQL as our backend database with responsive application.

2. LITERATURE REVIEW

This section presents current innovations and accepted practices that were previously integrated into various journals and articles related to Fuel on Demand. The purpose is also to briefly introduce the advances in the technology used. The first trusted distribution associated with the selected project will be done by Nielsen. The title of the report is "All India Survey on Diesel and Gasoline Demand by Sector". This report is from the Ministry of Oil and Gas of India. This shows India's oil demand.The following paper was written by Sunil Chandrasiri. The title of the paper is "Demand for Road Fuel in Small Developing Countries". This paper was disseminated in a 2016 Research Gate article. Reveal the economic impact on fuel demand.The following paper was written by Areeg Abubakr, Siddig Ali and others. The title of the paper is "Fuel Management System". This paper was published in the Institute of Electrical and Electronics Engineers (IEEE) Journal on January 16-18, 2017. Clarify monitoring of fuel sales.

The following article was written by Luis Rivera Gonzalez, David Bolognio and others. The title of the article is "Long-term Forecast of Energy and Fuel Demand for Ecuador's Sustainable Road Transport Sector (2016- 2035):Applying the LEAP Model". This article was published in the MDPI Journal on Energy and Fuel Requirements for 2019.The following paper was written by Pradeep Agarwal. The title of the article is India's Oil Demand: Empirical Estimates and Future Forecasts. This paper was published at IEG University in Delhi in 2012. This clarifies India's oil estimates.We bring a new solution for refueling automobiles booking using application . To develop an application to deliver fuel on demand. To make sure that quality and quantity is good. In this application provides a end support.

2.1 Methodology / Planning of work

To maximize the efficiency and profitability of online fuel services, companies must adopt a comprehensive methodology that integrates various aspects of the fuel delivery process. Here are some key steps to devise a successful strategy:

1. Data Analysis and Forecasting:

- Utilize data analytics to understand customer demand patterns
- Forecast fuel requirements based on historical data and market trends
- Implement predictive analytics to optimize fuel supply chain management

2. Seamless Order Placement and Tracking:

- Develop user-friendly platforms for customers to place fuel orders
- Implement real-time tracking systems to monitor fuel deliveries
- Provide notifications and updates to customers on their order status

3. Efficient Logistics and Delivery:

- Optimize delivery routes and schedules for maximum efficiency
- Utilize GPS tracking and route optimization software for fuel trucks
- Implement fuel management systems to track inventory levels and delivery timelines

4. Customer Engagement and Retention:

- Offer personalized promotions and discounts to loyal customers
- Provide exceptional customer service through digital channels
- Collect feedback and reviews to improve service quality

2.1 Modules

USER

1. Register

2. Login

3. Search Fuel Station

4. Place order ADMIN

1. Login

2. Check all booking FUEL STATION

1. Register

2. Login

3. Create Fuel Station

4. Update/Delete Fuel Station

5. Receive order.

Figure 1: Data Flow Diagram (Level 0)
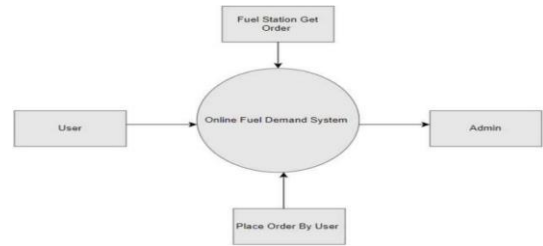
Figure 2: Data Flow Diagram (Level 1

Figure 3: Use Case Diagram for User
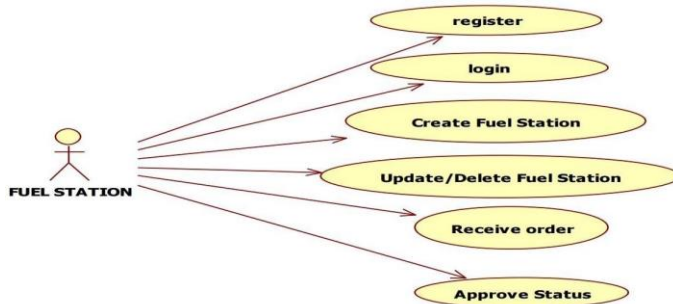
Figure 4: Use Case Diagram for Fuel Station
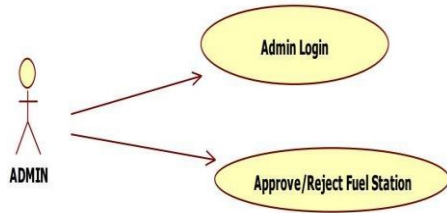
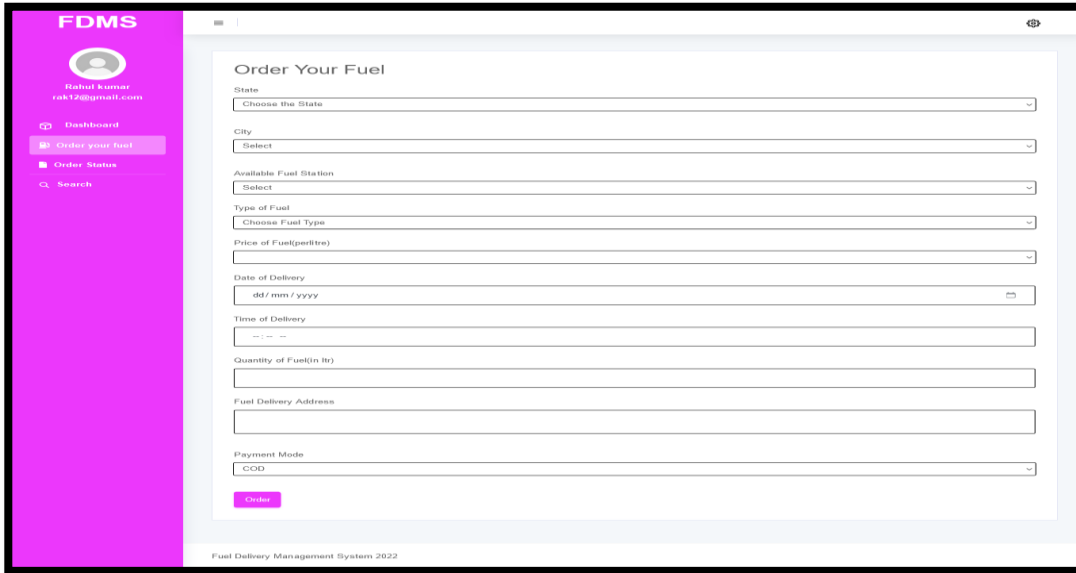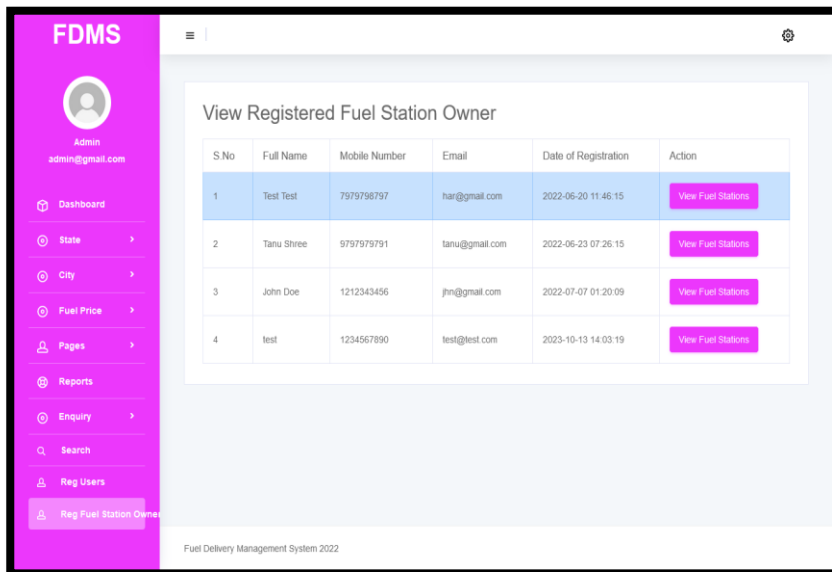**Figure 5:** Use Case Diagram for Admin

Order Status:-

User Panel Order Fuel:-

VI. CONCLUSION

meeting flue demand based on lifestyle choices requires a thoughtful approach and consideration of various factors. By incorporating fuel-saving strategies recommended by reviewers, individuals can optimize flue efficiency and contribute to a more sustainable environment. Whether through investing in fuel-efficient vehicles, adopting eco-friendly driving habits, or exploring alternative transportation options, there are numerous ways to save fuel online while still meeting daily needs

In today's digital age, the demand for flue products online is at an all-time high. Consumers are consistently turning to the internet to purchase flue components for their heating systems, fireplaces, and stoves. As a result, businesses in the flue industry are experiencing a significant surge in online demand.

One of the key factors driving this increase in online demand for flue products is the convenience and accessibility of online shopping. With just a few clicks, consumers can browse through a wide selection of flue components, compare prices, and make a purchase from the comfort of their own homes. This level of convenience has made online shopping for flue products increasingly popular among consumers. Furthermore, the rise of e-commerce platforms and online marketplaces has made it easier for businesses in the flue industry to reach a broader audience and attract new customers. By establishing a strong online presence, flue companies can showcase their products, provide detailed product information, and engage with customers through online channels.

Another driving force behind the growing online demand for flue products is the increasing awareness of the importance of proper ventilation in homes and commercial buildings. Consumers are becoming more conscious of the need for high-quality flue components to ensure the safety and efficiency of their heating systems. As a result, they are actively seeking out reputable flue suppliers online to meet their ventilation needs.the demand for online fuel services is on the rise, and for good reason. With its convenience, cost-effectiveness, and environmental benefits, online fuel delivery is quickly becoming the preferred choice for consumers. By embracing this trend, individuals can enjoy a hassle-free and efficient way to refuel their vehicles while also contributing to a cleaner and greener planet.the online demand for flue products is on the rise, driven by factors such as convenience, accessibility, and the growing awareness of the importance of proper ventilation. Businesses in the flue industry must capitalize on this trend by optimizing their online presence, expanding their product offerings, and providing exceptional customer service to meet the needs of consumers in a competitive online market.

ACKNOWLEDGMENT

drive to a gas station, wait in line, and interact with other customers. Online fuel delivery services offer a seamless and efficient solution for busy individuals and families.

Not only is online fuel delivery convenient, but it also offers a cost-effective alternative to traditional refueling methods. By eliminating the overhead costs associated with brick-and-mortar gas stations, online fuel delivery services are able to offer competitive prices to customers. This cost savings can add up over time, making online fuel delivery an attractive option for budget-conscious consumers.

Furthermore, ordering fuel online is not only convenient and cost-effective but also environmentally friendly. By reducing the number of trips taken to the gas station, online fuel delivery helps to lower carbon emissions and decrease air pollution. This benefits both the environment and public health, making online fuel delivery a sustainable choice for eco-conscious consumers.

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