



IJIRCCCE

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 10, Issue 8, August 2022

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 8.165



9940 572 462



6381 907 438



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A Review on Fuel Delivery System Using Andriod

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ABSTRACT: Systems and methods for mobile refueling by mobile fuel carriers of vehicles of approved users at approved mobile refueling locations. The system may include a server con nested to a network and a database accessible by the server that includes approved refueling location information and approved user and user vehicle information, including vehicle identification fuel preference information. User computers communicate with the server via the network, the user computers sending refueling request information including user identification and vehicle location information to the server. The server sends refueling instructions to a fuel carrier computer having a user interface which allows updating of route information with real - time information pertaining to user requests and fuel carrier location data.

A vehicle fueling system and method which uses an internet based user interface accessible by a user. The user accesses the user interface through a Smartphone application, a com putting device, call center, or a kiosk situated at a parking facility. The user accesses the user interface to notify a service provider that a vehicle in need of fuel. While the vehicle is parked in a parking lot, the serviceprovider responds to the user's notification, and dispatches a fuel truck to deliver fuel to the vehicle. This allows a user to have an unattended vehicle fueled. The user is automatically charged for the fuel an service, and a notification and invoice is provided to the USC.

I. INTRODUCTION

The present invention relates to the field of vehicle fueling systems and methods and, more particularly, to a system for automated Scheduling of the fueling of vehicles with minimal user interaction and related methods. Refueling automobiles is a necessary task for drivers of automobiles. This task takes time from a driver's day and adds additional driver responsibility, for a driver must be ever vigilant to prevent the automobile from running out of gas. In the case of unexpected trips, emergencies, or merely being rushed for time, a stop at a gas station to remedy a soon-to-be empty gas tank can be extremely inconvenient. Running out of gas on a highway or during the winter can be a dangerous event, and is a potentially harsh consequence for neglecting to stop for a gas refill. Accordingly, there is a need to employ an automated system for the refueling of automobiles in a driver's absence to save time and prevent driver stress. There is a further need schedule or notify a gas provider that an automobile is in need of refueling. There is also a need to automate payment to the gas provider.

These and other objects of the present invention are attained by a system of arranging fuel delivery to parked automobiles. The system comprises a fuel delivery vehicle capable of approaching an automobile for the purpose of filling the automobile's gas tank. A driver registers their vehicle through one of a web page, a kiosk, and Smartphone application, which are each information conduits through which payment for fuel is arranged and notification that an automobile is present and in need of refueling is provided to the fuel provider. All truck drivers and trucking companies would appreciate and find tremendous value in a new truck or vehicle fueling system that greatly reduces the amount of time required to refuel a truck and eliminates the need for the driver to stay with his rig. Fuel delivery is a new trend in the overall scheme of delivery services and it's getting more and more popular. According to the report published in business wire.Fuel delivery businesses actively embrace modern technology to improve the delivery experience and to meet customers' expectations of getting quality products brought to them within relatively short time frame. The main elements driving the fuel delivery market are increase in global vehicle production, sales value of commercial and passenger vehicles, and what's more important-growing demand for fuel delivery system.

II. LITERATURE SURVEY

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. [1]

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. [2]

The following paper was written by AreegAbubakr, Siding 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. [3]

The following article was written by Luis Rivera Gonzalez, David Bologna 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. [4]

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. [5]

The next application, Cafu, is one of the leading UAE companies helping to free gas stations. [6]

III. EXISTING SYSTEM

Our Online Fuel ordering software is the perfect match for all those enterprises who have the capability to deliver the fuel to their customer's doorsteps. As we saw that in real time food delivery app is available and is business growing fast and we think that as face a problem for fuel delivery is a big critical problem in emergency time for demand of fuel. It's services and functionality all are same as they perform in food ordering system. The fuel delivery app system as perform same as delivered the fuel as door step.

IV. PROPOSED SYSTEM

They are app-based services and work like Uber for fuel. That is, a person who needs to refuel his vehicle without visiting a fuel station, downloads and registers on the app. Then he requests gas delivery by tapping a button on the he just Downloaded and the app tags the location where his car is. The person can also manually select a location if he and the car needs refueling are at a different location and The fuel truck driver with his own app can navigate to the tagged location with the help of inbuild map on his app and He will refuel the car while taking care of all safety regulation and compliances. The amount gets deducted from the payment method he opted for at time of request.

V. IMPLEMENTATION

The project mainly consists of Register module, bunk information module, order fuel, trace order.

Register module

The registration module requires users and fuel stations to register with the application before it can be used. The registration module requests specific information from users and gas stations. User registration requires you to provide information such as your name, contact number, email ID, username, and password. Gas stations need to provide information such as the name of the gas station, contact number, email ID, user name, password, and location of the gas station in order to identify the gas station on the map.

Bunk Information

The fuel station must provide information on fuel availability, prices, types of fuel available, and services. Since fuel is the most important factor for any vehicle, its price changes daily, and the price of fuel also changes depending on the location of the gas station. Therefore, it is the gas station's responsibility to update fuel prices daily.

Order Fuel

When users register with the application, they can order fuel as needed. Users must enter their credentials after they have access to the services provided by the application before they can use the application. To order fuel, users must first find a nearby gas station and check the availability of fuel at that particular gas station. After checking the availability of fuel and services, users can order fuel as needed.



Trace Order

Once an order is placed, the user can track the order, whether the order was accepted, and whether the order was delivered. To receive order updates, the gas station must approve or reject the order and update the order status. The block diagram of the project is simple but robust. This is a block diagram consisting of all the important modules. The following figure shows the complete flow of the project architecture and process. It shows the overall architecture of the constructed system.

VI. DIFFERENT TECHNIQUES USED FOR DEVELOPING DELIVERY APP



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The ASP.NET element mannequin offers several setting up blocks of ASP.NET pages. Basically it is a lengthy way an object version, which describes: Server component opposite numbers of truly about all HTML factors or tags, such as and Server controls, which resource in growing hard consumer-interface.

For example, the Calendar manipulates or the Grid view manipulate. ASP.NET is a technology, which fits on the .Net framework that incorporates all net-associated functionalities. The .Net framework is fabricated from an item-orientated hierarchy.

An ASP.NET net software program application is fabricated from pages. When a purchaser requests an ASP.NET web page, the IIS delegates the processing of the net web page to the ASP.NET runtime system. The ASP.NET runtime transforms the aspx internet internet web page into an occasion of a magnificence, which inherits from the bottom type internet internet web page of the .Net framework.

VII. CONCLUSION

This project will reduce the amount of fuel required by supplying fuel. If the user is in urgent need of fuel, the user has the option to order fuel from their current location. The application has three options: home screen administrator, bank, and user, so users must select the appropriate option to log in to the application. The first time a user uses the application, they have the opportunity to register. So, he has to enter and register the required data. Users can order or cancel fuel. To order fuel, you need to enter the amount of fuel. The user's location is tracked using the device's live location, allowing the user to view and select the closest gas station within a particular threshold. When a user reserves fuel, the order is sent to their respective floor managers and the order placed by the user must be processed. Conclusion of the proposed system is that it will prove to be a valuable asset in case of emergencies and its user friendly GUI will provide an easy interaction between user and application thus allowing the user to easily take the benefits of its available functions. Proposed system will attract both the customers and petrol pumps as both are being benefitted. The system can also save lives by providing its services to medical vehicles in case of emergencies. The feedbacks from users will help to improve the system's performance.

VIII. FUTURE WORK

On-demand fuel delivery application which incorporates some new features is added in the application. Our system consists of a mobile application which will serve as a platform for the user and fuel stationaries to order and delivery the fuel. We bring a new solution for refueling automobiles and power backup supply. To develop an application to deliver fuel on demand. To make sure that quality and quantity is good. In this application provides a door-to-door supply.

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Impact Factor: 8.165

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