

# E-ENDHAN

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## ABSTRACT

*In this paper we have discussed about the brief idea about Endhan portal . The main Goal of our portal is to help the end users to find fuel pumps , Diesel, CNG and these fuels are delivered in times of scarcity and to informed the end users if supplier are furnishing petroleum products and CNG [1]. This portal helps those who did not afford vehicle to visit the petrol pumps and CNG station. In this we have added user and administration section target users who have android authorized features with android running hardware. Our portal is still in developing phase, however partial property of the portal thus far been developed and running. As we know that Petroleum products and CNG are few and are very much costly but these petroleum products are not available on e-commerce platforms on a advance-booking basis is as infrequent as them obtaining it from offline. Home Delivery, Mobile Apps, online payment's are the popup of the digital or online marketing. The application like "My Petrol Pump" and "Book My Petrol" are based on the concept of delivering petrol, diesel, and CNG at any desired location with the help of these applications. These application recently deliver petroleum products but they are limited to very short range and not more popular like Amazon, Flipkart, Swiggy in INDIA. Our portal E-endhan will work on the basis of online platform that delivered these petroleum products to customers doorstep on their demand of pre-booking basis and the vehicle get refuel. Our research paper test the advertising or consciousness of the doorstep delivery of petroleum products through online platforms and the end users acceptance of the technology and widely spread in online market for these petroleum products.*

**Keyword :** - Product, e-Endhan, Refuel, Scarcity, End-Users.

## 1.INTRODUCTION

As the technology is enhanced, everything around us has been computerized and modernized. All the works are managed manually before Computers is not developed now all the things were managed remotely . Since data are managed remotely so instead of they were accessed locally, are now data are distributed among a wide set of end users. Our portal "E-Endhan" is an online application that promote the end users a easier way to check the availability of petroleum products in lack of these products. We all know that the petroleum product scarcity appear only few times within a year, we afraid that our portal not being in used. In this portal, we can included the feature of User login and Admin Login.

As per our research, there exists many other websites that deliver petroleum products in time of scarcity. So for keep in mind we planned to make a portal who track the real time location. and in this we have added many section like User login, admin login, About, Contact us. We discovered about the issue that we are facing in these days globally.

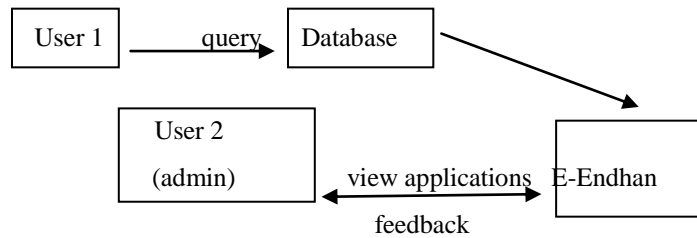


fig-1:Working Pattern

Fuel scarcity is the major cause of increase in the price

of fuels all over the world. Our portal will enable end user to check the status of the Fuel pump and CNG station in nearby location. In this, end user can check whether or not the petroleum product is being spread in that particular pump and CNG stations. E-Endhan will permit the end users to cope with time and through E-Endhan users can access the fuel status. E-Endhan will might be supportive to our end users because: E-Endhan will provide real time location about the fuel pump and CNG station around present location. In this we can include common forum to discuss about petroleum products and CNG. It will grant end users to look over all the list of petrol pumps and CNG stations available in the area. Through our authorized user our portal will broadcast the information regarding petrol pumps and CNG stations, being cited by other end users; if any user can give the false update then the authorized user can be reported on false update. In our portal we have include a discussion forum where users can post and start a new thread as a discussion in our forum. Our portal give better opportunity for economic growth in country. The development has been completed using python django and all the information has to be retrieved and stored has been done using SQLite. For frontend we use HTML,CSS. For backend we use python django.

## 2. Literature Review

We all have developed an website where we wanted to solve the issue of fuel problem which are effecting in our day to day life. From this study says that the scope for portable petroleum delivery with the door delivery facility is quite impressing and promising. Future generation who will more technologically advanced can make the most out of this concept and make it globally acceptable. The important dimensions of portable petrol pump are the acceptance of technology and customer satisfaction.

This paper introduced first system to implement RFID technology in the fuel release in an Iraqi city. The systems allow consumer to pay for the amount of fuel they get and prevents illegal sale of fuel by assigning a predefined amount of fuel within a specified period of time. Existing fuel stations can adopt this system without the need to reinstallation of new ones. This is considered as an efficient way to implement the system and reduce costs, since there are many different types of fuel stations in one city. Throughout this system, many useful records can be obtain such as the amount of liters being supplied in a particular fuel station[1].

In the previous decade, the ecommerce sector has grown at an unprecedented rate, and the delivery process is a critical component of that growth. Several studies have been conducted to determine how difficulties in the delivery process affect consumer behavior. They all agree that the most important aspect of an ecommerce business is delivery.

It's a company concept that has to be as efficient as feasible. We will highlight some prevalent challenges in this research.

that shoppers frequently confront while shopping online We'll look at which of these issues has a higher priority.

What effect does it have on customers, and which consumers are the most affected?[2],

The link between what existing innovative home delivery services may offer and the end-requirements user's and difficulties related home delivery was investigated in this study.

service of delivery Four state-of-the-art services are available.

presented.

The Automated Logistics Service Providers locate the Automated Logistics Service Providers

In terms of products, pack stations are a viable choice.

Consolidation and a decrease in delivery concerns

when the end-users are not at home when the package is delivered . The delivery to the pickup location might be the same benefits, which is a solution that has the potential to bring good results Other stakeholders, such as shopkeepers, will profit as well.

owners seeking additional revenue and in-store space traffic. Private persons can use crowd delivery services to get their packages delivered. In exchange for a fee, they utilize their own automobile to deliver items fee, as well as[3],3.

The study's main issue was whether MFD would raise or reduce VMT when compared to gas stations. The first of three studies revealed that a decrease in VMT is more likely. The impacts of gasoline delivery and grocery delivery were found to be similar in this study. For shift direction (lower VMT), but not magnitude (This has a reduced impact). The reduction of main journeys (i.e., individual trips to and from) lowered VMT (the shop). Trips to the grocery shop and the petrol station were necessary. Despite their equal distance and frequency, only a small percentage of gas station excursions (7 percent to 11 percent) were primary trips.

As a result, the impact of eliminating them was less than it would have been if they hadn't been removed.

businesses that sell groceries Fuel delivery vans follow a set route. Method that is more efficient than doing it one at a time.[4]

## **2.1 About E-Endhan:-**

In this project, we mainly uses important dimensions of portable petrol pump are the acceptance of technology and customer satisfaction. It will also cover area of computer science knowledge and other mother branches . The basic agenda of this paper is to communicate a new way of shopping products that are rare to store but essential for everyone . Now a days each and every persona try to save their time by using other assets like transport and technology. E-Endhan is combination of technology and transport.

### **2.1.1 Petroleum products:-**

In our civilization transport is most important part of human life to move from one place to another place. Transport system that are used by us is bus, truck and our own vehicle for travelling either for going to office or public place etc at the time of covid pandemic human owns transport play a key role for moving safely from home to market or office etc. for this all use, transport create heavy demand of petroleum products. The price of petrol, Diesel are raising day by day which create great impact on economy and on humans life. Due to the large consumption of petroleum products and CNGs in all over world, their were reports of storage of petroleum products in different parts of the country. Countries like Iraq, Saudi Arabia, Nigeria etc imports petroleum products in India. In the Corona pandemic year 2020-2021, up to 82%-84% of India's demand was fulfilled by importer countries .The state which produces petroleum in large scale is Rajasthan, Gujarat and Assam.

### **2.1.2 E-Commerce:**

In the era of twenty-first century companies are using a user friendly equipments known as Internet. For their product information each and every business including business to business(B2B) or business to customer(B2C) uses internet and also for product promotion or for launching the product businesses are using internet.

We take example of Amazon. It sells all product like electronics, clothing, grocery and so on. E-commerce can easily be conducted over tablets, smart phones laptops and other digital devices. Human can purchase any thing by using E-commerce today. E-commerce play as a brick for stumping and expanding businesses. Customers use the website and purchase product by using electronic payment. After receiving the payment the merchant or seller deliver the goods to the customer. In all over the world many businesses are establish using the internet to sell and deliver petroleum products and CNG .Petroleum Oil, natural gas and petrochemical industries have an important impact to enhance in the global energy market. Internet has had a great effect on the petroleum industry in many ways and uses the benefits of e-commerce program. The interchange of necessary information between the divisions of the petroleum oil and gas industry can be supported by the use of information technology and infrastructures. This paper enhance e-commerce and doorstep delivery of petroleum products together with its other related products. The scope of e-commerce in future increasing day by day and the customer acceptability in the upcoming generation.

### 2.1.3 Technology's Used:

As we are experiencing many emerging and ongoing technology we uses full stack technologies like HTML, CSS , MySQL, python Frameworks.

#### 2.1.3.1 HTML-

- HTML documents are essentially text files that have been formatted in a specified way.
- Content-and-markup-tag-based documents – Content: the actual information being conveyed
- The markup tags instruct the browser on how to render the page.
- The htm or html file extension is required for an HTML file.
- A simple text editor can be used to build an HTML file.
- Tags are the foundation of HTML programming.
- A tag is a keyword surrounded by angle brackets (e.g.,< I>).
- You must close any HTML tags that are within other HTML tags.
- First, the tag that is closest to you.
  - EX <H1><I>The Nation</H1></I>

#### 2.1.3.2 CSS

- Styles determine how HTML items are displayed – Style Sheets are where styles are usually saved. To remedy an issue, styles were added to HTML 4.0.
- External style sheets might help you save a lot of time and effort.
- CSS files hold external style sheets.
- A single style definition will be created from many style definitions.

#### 2.1.3.3 JavaScript

The term JavaScript is frequently shortened. Along with HTML and CSS, JS is a computer language that is one of the essential technologies of the World Wide Web. On the client side, over 97 percent of websites employ JavaScript for web page behavior, with many of them containing

libraries provided by third parties A specialized JavaScript engine is available in all major web browsers on the user's device, run the code.

#### 2.1.3.4 PHP

PHP stands for "PHP: Hypertext Preprocessor" and is a popular open-source scripting language. PHP programmes are run on the server.

- PHP is a free to download and use programming language.
- PHP can create dynamic content for web pages.
- PHP is capable of creating, opening, reading, writing, deleting, and closing files on the server.
- PHP has the ability to collect data from forms.
- PHP has the ability to send and receive cookies.
- PHP has the ability to add, remove, and edit data in your database.
- PHP may be used to restrict access to certain users.
- PHP has the ability to encrypt data.
- PHP may be used on a variety of systems (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with practically all of today's servers (Apache, IIS, etc.)
- PHP can work with a variety of databases.
- PHP is a free programming language. It's available for download from [www.php.net](http://www.php.net), the official PHP website.
- PHP is simple to use.

#### 2.1.3 Infrastructure:

On-demand fuel delivery mobile apps and portal is a bit more exacting than growing it for other industries and companies so for it we can develop and Build an IT infrastructure for end users. The fact is that IT infrastructure could involve a lot of examination, investigation and information. Infrastructure includes the following modules: Backend Development ,Admin panel Development ,Report & Analytic (Part of Admin). Backbone is the essential part of any website whose name is backend. It plays very important part for any website. It act as invisible and contains all important codes that help and support the frontend to communicate with the database.

#### 2.1.4 Performance Evaluation

**Registration Page:** In registration page end user can register itself by filling details like First Name, Last Name, Username, Email, Password and after confirm password they submit their details with the help of submit button.

**Login Page(user):** Through login page user can login in the portal with the help of filling some necessary details.



**Application Form:** This page include Name, Email, Phone, Fuel, Amount of Fuel and Complete Address of the end users.

**Login Page(Admin):** This page include admin login where only admins have right to login using mail and password.

**Home(admin):** In this admin can see how many applicants are registered and their overall details.

**View panel(admin):** It includes Name, Email, Mobile No. Fuel Type, Amount and Address.

### 3. Experimental Result

Any brand initiated with goals and associated with cheap quality touches a goods, expectations sink. Brands are long time assets and it made with time and destroy with time. By the name of brand ,company can make a large profit from year to year. Companies having big brands won't made the profit immediately ,companies struggled for making profit. Deep analysis and knowledge is required for building the petroleum based products into market and demands .The upward trend came when fuel would be displaying with the increase in vehicular traffic and there would be more compatible environment due to the large markets, the many PSU OMCs need to analyze over ways to build up their brand identity.

#### 3.1 Home Page:

The Home page of any website navigate the user in terms of How the user can access the website?, how user use the resources available?, Attraction towards website can stimulate business .The representation of any content is matter more in marketing. The Home page contain logo of the portal some basic information about the portal and how any user can use this portal . This include navigation to other points like about us ,contact us etc.



Fig-2: Home Page

#### 3.2 Registration Page:

The first activity what the portal has is Registration which demand User's first name, user's last name ,username which customer want to display on the screen, E-mail address , password and confirmation of password. At the last user can submit their details for future use.

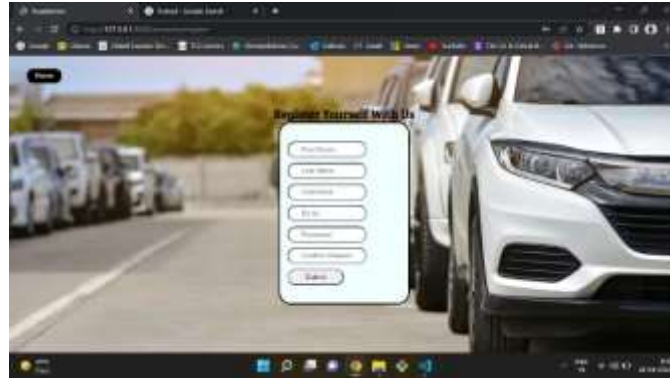


Fig-3: Registration Page

### 3.3 Login Page:

The Home page of any website navigate the user in terms of How the user can access the website with credentials like user name and password . If the user forgot to register his/herself in the portal , this portal will facilitate user with registration .

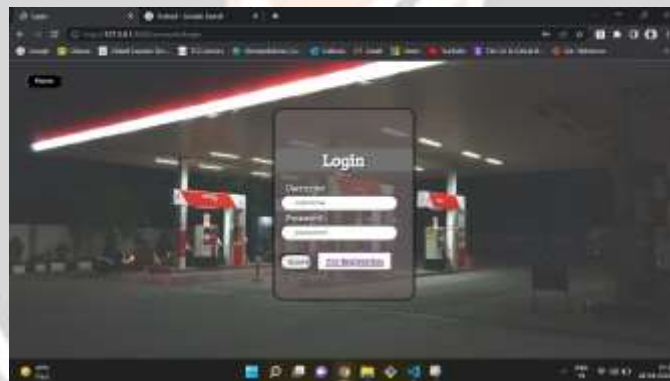


Fig -4: Login Page

### 3.4 Services:

The services offered by the portal include Tow services and fuel delivery . One can easily avail these services after completing some necessary steps.



Fig -5: Services

### 3.5 Contact Us Page:

A strong relationship between sender and receiver needs strong communication. For communication point of view user are facilitate with Contact Us page by which any user can contact authority member .

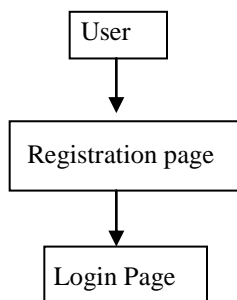


Fig -6: Contact Us Page

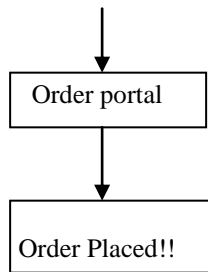
## 4. DISCUSSION

The overall project is tend to commercialization and technical enhancement of the discussed field. The project include website or portal which is very common in right now scenario and all the service industry uses this typical method .

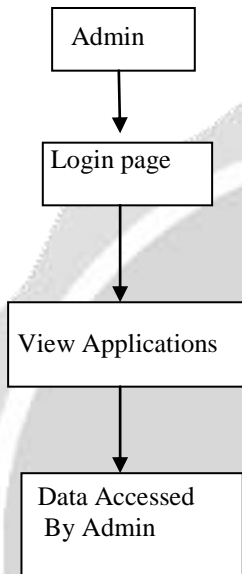
### 4.1 Working of user page







#### 4.2 Working of Admin



The Website has easy working style so that a new user or a person who is not very familiar with technical equipment can also access this website .

#### 5. CONCLUSIONS

Now a days in our country there are very less online portal that offers petroleum products like petrol ,diesel, coal and CNG on doorstep delivery. Some how, if they are available they recoil for a short distance or providing few products including LPG only. These products are not much more famous for common citizens .And these products are only available for metropolitan cities like Delhi and Bangalore it is one of the most drawback. so they are very fewer famous in rural areas and small towns .The vast area of working is E-commerce and it includes evolution and innovation of time to time . This type of idea can demand strong end user or client relationship with seller. E-commerce works as technological weapon that introduce easiness to end user to purchase online and now in these days delivery agents are also authentic so one can easily trust a portal , a company or a product .The transparency can be establish between client and seller.

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