



**IndianOil**

# PROJECT REPORT ON DEVELOPMENT OF E-COMMERCE WEBSITE AND PRODUCT SEARCH USING HTML, CSS, JAVASCRIPT, PHP AND MYSQL

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**Last but not the least; I would also like to thank the entire staff at Indian Oil Corporation Limited Kolkata, friends and family members who have helped me directly or indirectly in completion of this project.**

**PIYUSH SEN**



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## INFORMATION SHEET

Name of the Company: INDIAN OIL CORPORATION LIMITED

Address: 2 Gariahat Road, South, Dhakuria, Jodhpur Park, Kolkata-700068

Date of Commencement Of Internship: 1st April 2023

Date of Completion Of Internship: 26th May 2023

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## INTRODUCTION TO IOC LTD.

Indian Oil Corporation Limited (IOCL), commonly known as IndianOil is an Indian government owned oil and gas company headquartered in New Delhi.<sup>4)</sup> It is the largest commercial oil company in the country, with a net profit of INR 19,106 crore (USD 2.848 billion) for the financial year 2016-17.

It is ranked 1st in Fortune India 500 list for year 2016 and 117th in Fortune Global 500 list of world's largest companies in the year 2019. As of 31 March 2017 IndianOil's employee strength is 33,135, out of which 16,545 are in the officer cadre. It is India's largest downstream oil company, with a workforce of more than 33,000 employees, a turnover of Rs. 506,428 crore and a net profit of Rs. 21,346 crore in 2017-18.<sup>19)</sup> IndianOil's business interests overlap the entire hydrocarbon value-chain, including refining, pipeline transportation, marketing of petroleum products, exploration and production of crude oil, natural gas and petrochemicals.

IndianOil has ventured into alternative energy and globalisation of downstream operations. It has subsidiaries in Sri Lanka (Lanka IOC), Mauritius (IndianOil (Mauritius) Ltd)<sup>112)</sup> and the Middle East (IOC Middle East FZE).<sup>[13]</sup> In May 2018, IOCL became India's most profitable state-owned company for the second consecutive year, with a record profit of ₹21,346 crore in 2017-18, followed by Oil and Natural Gas Corporation, whose profit stood at 19,945 crore.<sup>141</sup> In February 2020, the company signed a deal with the Russian oil company Rosneft to buy 40,000 barrels per day of crude in year 2020.<sup>115)</sup> From April 1, 2020, The Indian Oil is in absolute readiness to launch BS-VI (Bharat Stage VI) fuels in all its retail outlets in Telangana and adopt world-class emission norms.



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## HTML and CSS

HTML (Hypertext Markup Language) is the standard markup language used for creating web pages. It forms the backbone of the World Wide Web and is essential for structuring and presenting content on the internet. HTML employs a set of tags that define the elements and structure of a web page. These tags allow users to format text, insert images, create links, and define headings, paragraphs, lists, tables, and more. By using HTML, developers can create well-organised and semantically structured web pages that are both human-readable and machine-understandable.

HTML allows developers to define the structure of a web page using elements like divs, headers, footers, and sections, ensuring a logical organisation of content. This responsiveness is achieved through the use of CSS (Cascading Style Sheets) in conjunction with HTML, allowing for a seamless user experience across desktops, tablets, and mobile devices.

HTML is not just limited to static content; it also enables interactivity on web pages. Through the use of form elements such as text fields, checkboxes, and buttons, users can input data and interact with web applications. HTML supports event attributes and JavaScript integration, allowing developers to handle user interactions, validate input, and perform dynamic updates on the web page without requiring a page reload.

CSS (Cascading Style Sheets) is a powerful language used for styling and visually enhancing web pages. It works in conjunction with HTML to define the presentation and layout of elements on a web page. With CSS, developers can apply colours, fonts, spacing, borders, backgrounds, and other visual properties to HTML elements, providing a consistent and visually appealing user experience across different web browsers and devices.

CSS offers a wide range of selectors and pseudo-classes that enable fine-grained control over the styling of elements. Selectors can target specific HTML elements, classes, IDs, or attributes, allowing developers to apply styles selectively.

## JAVASCRIPT

JavaScript is a versatile and powerful programming language that is widely used for developing interactive and dynamic web applications. As a client-side scripting language, it runs directly in the user's web browser, enabling developers to create rich, responsive, and interactive user interfaces. JavaScript can manipulate HTML elements, handle events, validate forms, make asynchronous requests to servers, and perform complex calculations, making it a fundamental technology for modern web development.

One of the key strengths of JavaScript is its ability to provide interactivity on web pages. With JavaScript, developers can respond to user actions such as clicks, mouse movements, and keyboard input, allowing for dynamic updates and real-time feedback. JavaScript event handlers enable the execution of custom code when specific events occur, providing a seamless user experience. It can also modify the content and structure of HTML elements on the fly, enabling dynamic content loading, form validation, and user interface enhancements.

JavaScript also enables the development of web applications that communicate with servers asynchronously, without requiring a page reload. This is achieved through techniques like AJAX (Asynchronous JavaScript and XML) and the more modern approach using the Fetch API. By making asynchronous requests to servers, JavaScript allows for the retrieval and manipulation of data in the background, leading to faster and more responsive web applications. This capability is essential for implementing features such as live search suggestions, real-time chat applications, and dynamic content updates.

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## MySQL

MySQL database or relational database is a collection of highly structured tables, wherein each row reflects a data entity, and every column defines a specific information field. Relational databases are built using the structured query language (SQL) to create, store, update, and retrieve data. Therefore, SQL is the underlying programming language for all relational database management systems (RDBMS) such as MySQL, Oracle, and Sybase, among others. MySQL database server stores and organises data in tables.

One of the key strengths of MySQL lies in its ability to query databases efficiently. Users can retrieve specific data from large datasets by using SELECT statements. These statements allow you to specify the columns and conditions to filter the desired information. SQL supports various operators, such as equal to (=), not equal to (!=), greater than (>), less than (<), and logical operators like AND and OR, enabling users to formulate complex queries. With CREATE statements, users can define tables, columns, and constraints, such as primary keys and foreign keys, which ensure data integrity and enforce relationships between tables. The INSERT statement allows users to add new records into a table, specifying the values for each column. UPDATE statements enable modifying existing records by changing the values of specific columns based on specified conditions. DELETE statements, on the other hand, remove records from tables based on defined criteria. These operations enable users to maintain and update the data within a database, ensuring the information remains accurate and up-to-date.

## XAMPP

XAMPP is a popular open-source software package that facilitates the setup and management of a local web server environment. It provides a convenient way to develop and test web applications on your personal computer before deploying them to a live server. XAMPP is widely used by developers, particularly those working with PHP and MySQL, as it bundles these essential components together along with other useful tools.

One of the key components of XAMPP is the Apache HTTP Server, which is a robust and widely-used web server software. With XAMPP, you can easily start and stop the Apache server, configure its settings, and manage virtual hosts to host multiple websites or applications on your local machine. Apache provides a reliable platform for serving web pages, handling HTTP requests, and supporting various programming languages.

XAMPP also includes MySQL, a powerful open-source relational database management system. MySQL allows you to create and manage databases, tables, and perform queries, making it an excellent choice for storing and retrieving data for web applications. With XAMPP, you can easily set up and configure a MySQL server, create databases, and interact with them using popular tools like phpMyAdmin.

PHP, another crucial component of XAMPP, is a server-side scripting language widely used for web development. It allows you to embed dynamic content within HTML pages, interact with databases, handle form submissions, and perform various other tasks. XAMPP comes with a preconfigured PHP installation, making it easy to write and test PHP code locally.

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## **PRODUCT SEARCH**

Search Engines are an effective online tool that facilitates finding pertinent information. It serves as a portal to the enormous quantity of knowledge that is accessible and organised on the internet. To crawl through billions of online pages, index their information, and provide consumers search results that are highly customised to their queries, search engines use sophisticated algorithms. Search engines work to provide the most accurate and helpful information by examining keywords, relevance, popularity, and user behaviour.

One of the main focuses of this project is incorporating a small search feature which can help find products. The Search bar is available in the middle of the Navigation Bar, in which you can type in text which will be matched with keywords (tags) and will display the products matching the tags.

In order to incorporate people who might not be able to spell properly, might not know the correct spelling, typing fast and making errors or any of the like, the product search supports few degrees of errors:

1. One letter was exchanged with another next to it. Examples- ‘fridge’ to ‘fridg’ and ‘clothes’ to ‘ctohes’.
2. Letter being misplaced with another. The number of such letters depends on the length of the word:
  - If the word is 2-5 letters, One error is accepted (shirt->sfirt)
  - If the word is 6-7 letters, Two errors are accepted (coffee->cofeez)
  - If the word is 7 letters or higher, Three errors are accepted (vivobook->ziviloloow)

## Hardware and Software Requirements

### HARDWARE

- 2GB ram
- 1.2 GHz processor
- Intel i5
- Windows XP/7/8/8.1/10/11

\*64 bit OS is preferred

### SOFTWARE

#### FRONTEND:

- HTML
- CSS
- JAVASCRIPT

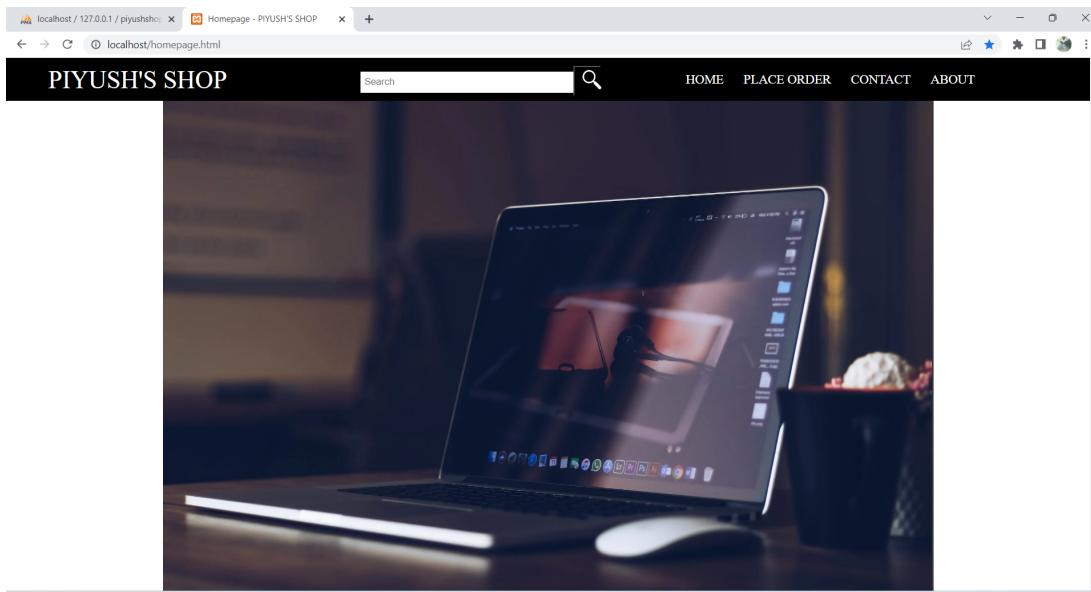
#### BACKEND:

- JAVASCRIPT
- SQL (XAMPP)

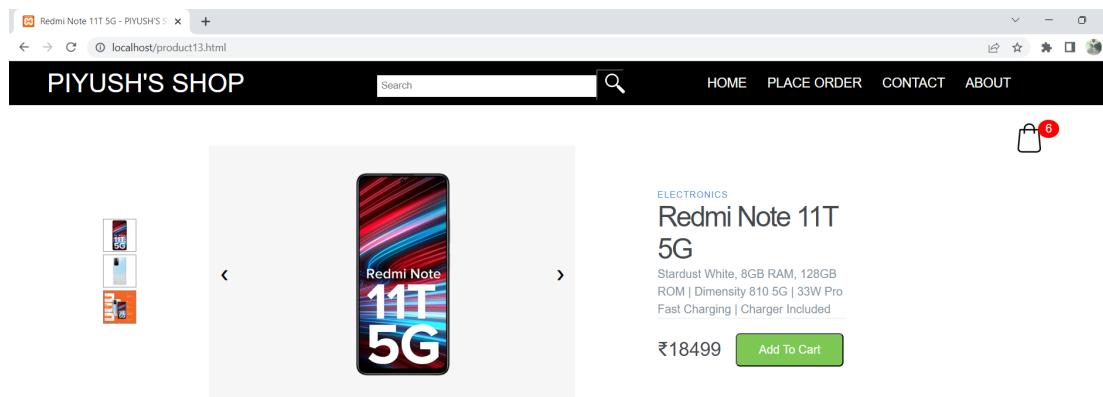


# Website GUI

## Homepage



## Product Page



### Related Products



## Cart

A screenshot of a web browser showing a shopping cart. The main content area displays a large image of a Redmi Note 11T 5G smartphone. To the left of the phone are three smaller thumbnail images. Below the phone is a section titled "Related Products". On the right side, a "Card" panel lists three items:

Product	Description	Price	Quantity
MSI GF66 Laptop	Stardust White, 8GB RAM   Dimensity 8 Gen 1   1TB NVMe SSD   Fast Charging   Chroma	70,499	1
Morphy Richards Coffee Maker	4,647	3	
Volta Air Conditioner	55,780	2	

The total amount shown at the bottom is ₹130,926. Navigation icons for back, forward, and search are visible at the top of the browser window.

## Place Order Page

A screenshot of a web browser showing a "Place Order" page. The page has fields for First Name, Last Name, Phone, City, Landmark, Pincode, and Address. At the bottom is a pink "PROCEED TO PAYMENT" button. To the right, a "Cart" summary panel shows the same three items as the previous screenshot:

Product	Description	Price	Quantity
MSI GF66 Laptop	Stardust White, 8GB RAM   Dimensity 8 Gen 1   1TB NVMe SSD   Fast Charging   Chroma	70,499	1
Morphy Richards Coffee Maker	4,647	3	
Volta Air Conditioner	55,780	2	

The total amount shown at the bottom is ₹130,926. Navigation icons for back, forward, and search are visible at the top of the browser window.



## Payment Page

localhost/payment.html

PIYUSH'S SHOP

Search

HOME PLACE ORDER CONTACT ABOUT

Payment amount

Rs. 130,926

Payment options

CRED

PayPal

fastPay

G Pay

A screenshot of a web browser displaying a payment page for "PIYUSH'S SHOP". The page has a black header with the shop name, a search bar, and navigation links for Home, Place Order, Contact, and About. On the left, a green box shows the payment amount as "Rs. 130,926". On the right, there are four payment method icons: CRED (black square), PayPal (white square), fastPay (white square), and G Pay (white square with a blue circle).

localhost/ordered.html

PIYUSH'S SHOP

Search

HOME PLACE ORDER CONTACT ABOUT

A screenshot of a web browser displaying a confirmation page for "PIYUSH'S SHOP". The page has a black header with the shop name, a search bar, and navigation links for Home, Place Order, Contact, and About. The main content features a large illustration of a green shopping bag inside a circular track with arrows, symbolizing delivery. Below the illustration, the text "Your order has been placed successfully!" is displayed. At the bottom, there are two links: "Send us some feedback!" and "Go back to the Homepage".

Your order has been placed successfully!

Send us some feedback! Go back to the Homepage

PIYUSH'S SHOP

Connect with us at

A screenshot of a web browser displaying a confirmation page for "PIYUSH'S SHOP". The page has a black header with the shop name, a search bar, and navigation links for Home, Place Order, Contact, and About. The main content features a large illustration of a green shopping bag inside a circular track with arrows, symbolizing delivery. Below the illustration, the text "Your order has been placed successfully!" is displayed. At the bottom, there are two links: "Send us some feedback!" and "Go back to the Homepage".



## Search Results Page (Searching 'Watch' and 'Clothes')

Search Results

The screenshot shows a search results page for 'watch'. It features a header with the shop name 'PIYUSH'S SHOP' and a search bar. Below the header, the title 'Search Results' is displayed in red. Two products are listed in a grid:

- Titan Karishma - M**  
Black Dial, Round Case, Color: Silver, Stainless Steel Band
- Titan Karishma W**  
Champagne Dial, Round Case, Color: Golden, Brass Alloy Band

At the bottom of the page, there is a footer with links for HOME, PLACE ORDER, CONTACT, and ABOUT.

Search Results

The screenshot shows a search results page for 'clothes'. It features a header with the shop name 'PIYUSH'S SHOP' and a search bar. Below the header, the title 'Search Results' is displayed in red. Two products are listed in a grid:

- Women's Kanjivaram Saree**  
Kanjivaram Soft Silk Saree With Blouse Piece
- Allen Solly Men's Shirt**  
Fit Type: Regular Fit. Men's Green Shirt

At the bottom of the page, there is a footer with links for HOME, PLACE ORDER, CONTACT, and ABOUT.



## Search Results Page (With Errors, Searching ‘mobile’ and ‘zivoloow’ )

Search Results

PIYUSH'S SHOP

Search

HOME PLACE ORDER CONTACT ABOUT

**Redmi Note 11T 5G**  
Stardust White, 8GB RAM, 128GB ROM | Dimensity 810 5G | 33W Pro Fast Charging | Charger Included

**Samsung Galaxy S23 Ultra**  
Green, 12GB RAM, 256GB ROM | Android 13.0 | 5G | 33W Pro Fast Charging | Charger Included

Search Results

PIYUSH'S SHOP

Search

HOME PLACE ORDER CONTACT ABOUT

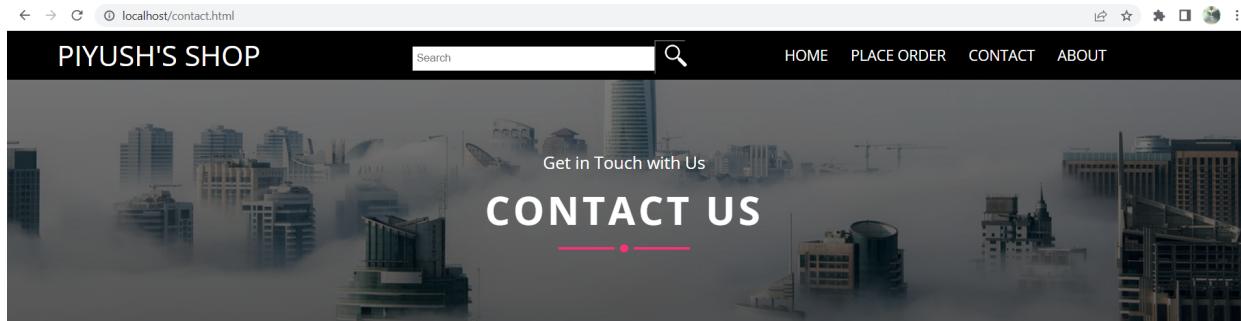
**ASUS Vivobook Pro 16**  
Intel Core i9 11th Gen, 16inch (40.64 cm) FHD+ 120Hz, Thin & Light Laptop (16GB/512GB SSD/4GB RTX 3050)

## Search Results

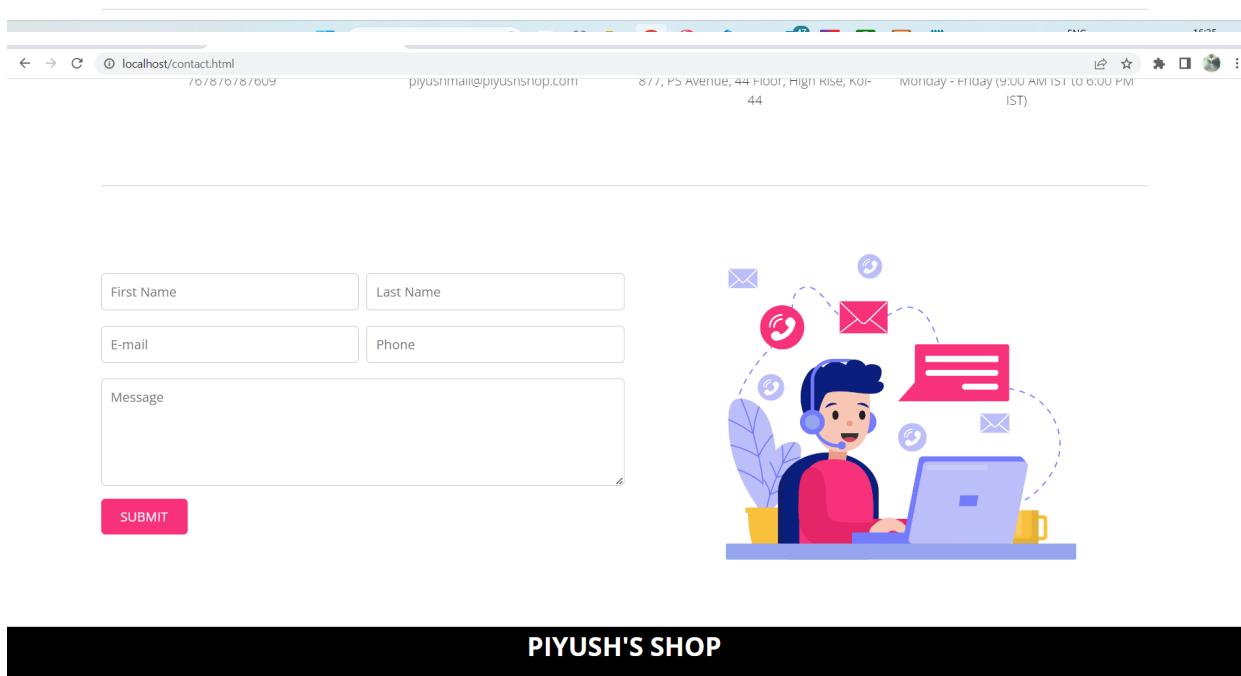




## Contact Us Page

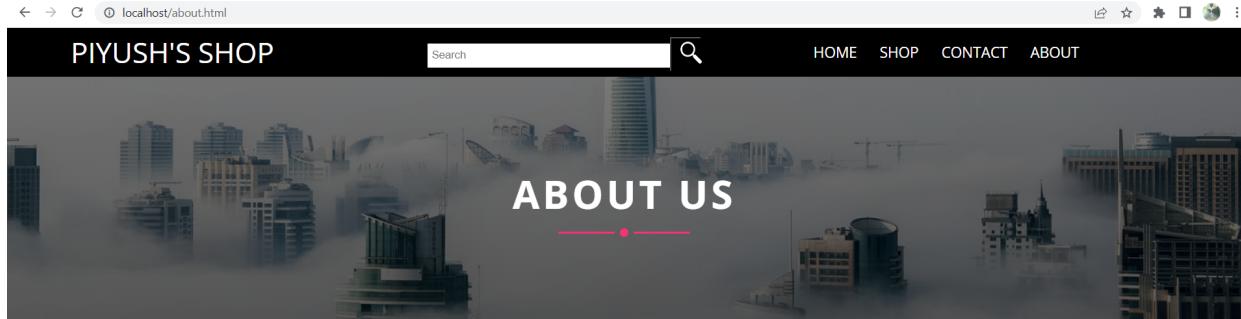


A screenshot of a contact us page for "PIYUSH'S SHOP". The header includes a search bar and navigation links for HOME, PLACE ORDER, CONTACT, and ABOUT. The main section features a city skyline background with the text "Get in Touch with Us" and "CONTACT US". Below this, there are four contact points: a phone icon for "Phone No. 767876787609", an envelope icon for "E-mail piyushmail@piyushshop.com", a house icon for "P.O. Box 877, PS Avenue, 44 Floor, High Rise, Kol-44", and a clock icon for "Operating Hours Monday - Friday (9:00 AM IST to 6:00 PM IST)".



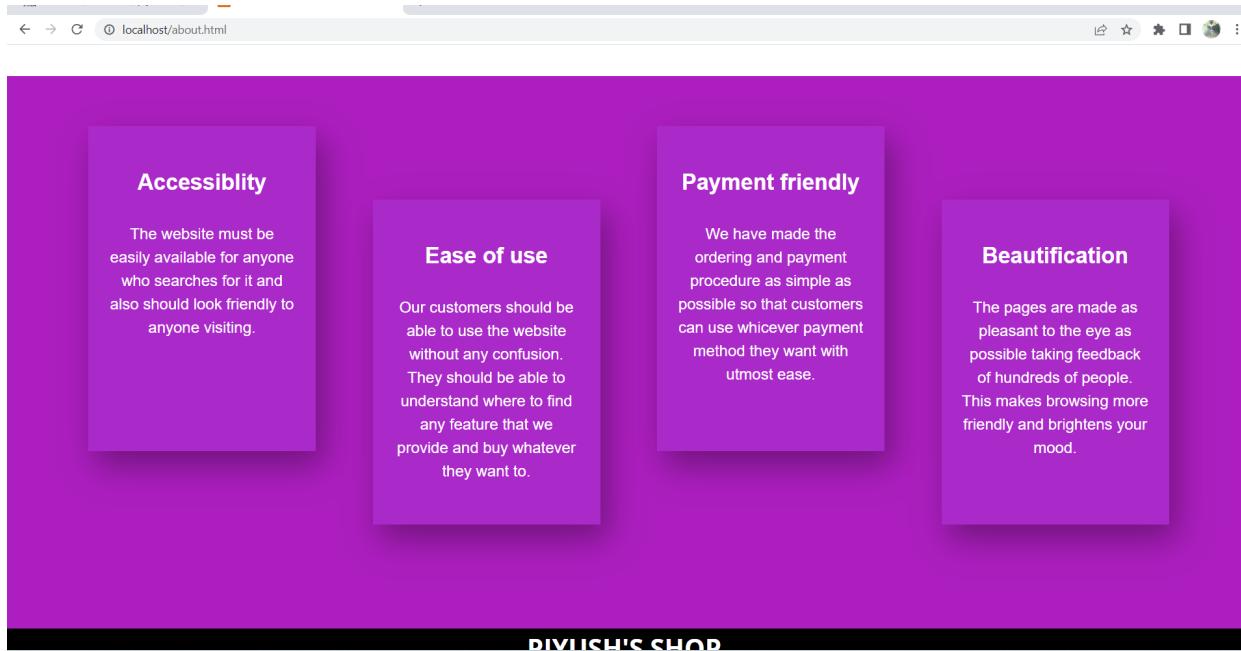
A screenshot of the same contact us page, but with a different URL in the address bar: "localhost/contact.html?/07/07/07/009". The page displays the same contact information and operating hours. On the left, there is a form with fields for First Name, Last Name, E-mail, Phone, and a large Message area. A pink "SUBMIT" button is at the bottom. To the right of the form is an illustration of a person wearing a headset and working on a laptop, surrounded by various communication icons like envelopes and speech bubbles.

## About Us Page



### Our Goals

To establish an online presence that enables all kinds of businesses to sell their products and for these products to reach consumers to fulfill all their needs. The website includes a variety of features that allow customers to easily search and browse for products, compare prices,

**Accessibility**

The website must be easily available for anyone who searches for it and also should look friendly to anyone visiting.

**Ease of use**

Our customers should be able to use the website without any confusion. They should be able to understand where to find any feature that we provide and buy whatever they want to.

**Payment friendly**

We have made the ordering and payment procedure as simple as possible so that customers can use whichever payment method they want with utmost ease.

**Beautification**

The pages are made as pleasant to the eye as possible taking feedback of hundreds of people. This makes browsing more friendly and brightens your mood.



# Database Tables

## Inventory Table

Screenshot of the phpMyAdmin interface showing the structure of the 'inventory' table in the 'piyushshop' database.

The table has 19 columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	p1	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	p2	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	p3	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	p4	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	p5	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
7	p6	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
8	p7	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
9	p8	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
10	p9	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
11	p10	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
12	p11	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
13	p12	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
14	p13	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
15	p14	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
16	p15	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
17	p16	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
18	p17	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
19	p18	int(11)			No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Screenshot of the phpMyAdmin interface showing the data of the 'inventory' table in the 'piyushshop' database.

The table contains two rows of data:

	id	p1	p2	p3	p4	p5	p6	p7	p8	p9	p10	p11	p12	p13	p14	p15	p16	p17	p18
1	2	9000	2000	7000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
2	3	9000	2000	7000	1000	1000	1000	1000	1000	1000	999	1000	997	1000	1000	998	1000	1000	1000



## Orders Table

The screenshot shows the 'Structure' tab for the 'orders' table in the 'piyushshop' database. The table has 9 columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>id</b>	int(11)	utf8mb4_general_ci		No	None		AUTO_INCREMENT	Change  Drop  More
2	<b>fname</b>	text	utf8mb4_general_ci		No	None			Change  Drop  More
3	<b>Iname</b>	text	utf8mb4_general_ci		No	None			Change  Drop  More
4	<b>phno</b>	varchar(20)	utf8mb4_general_ci		No	None			Change  Drop  More
5	<b>city</b>	text	utf8mb4_general_ci		No	None			Change  Drop  More
6	<b>landmark</b>	text	utf8mb4_general_ci		No	None			Change  Drop  More
7	<b>pin</b>	int(11)			No	None			Change  Drop  More
8	<b>adrss</b>	text	utf8mb4_general_ci		No	None			Change  Drop  More
9	<b>items</b>	text	utf8mb4_general_ci		No	None			Change  Drop  More

Below the table structure, there is a section for 'Indexes' with one primary key index:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit  Rename  Drop	PRIMARY	BTREE	Yes	No	id	0	A	No	

The screenshot shows the 'Data' tab for the 'orders' table. A single row is selected and displayed:

	Edit	Copy	Delete	18	Vaibhav	Vishal	9455679031	Pune	Roald Stadium	600406	24C, Linkon Park, 4th floor	MSI GF66 Laptop 1 Morphy Richards Coffee Maker 3 V.
Edit	Copy	Delete	18	Vaibhav	Vishal	9455679031	Pune	Roald Stadium	600406	24C, Linkon Park, 4th floor	MSI GF66 Laptop 1 Morphy Richards Coffee Maker 3 V.	

At the bottom, there are buttons for 'Query results operations' such as Print, Copy to clipboard, Export, Display chart, and Create view.



## Contactus Table

The screenshot shows the phpMyAdmin interface for the 'piyushshop' database. The 'contactus' table is selected. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>id</b>	int(11)	utf8mb4_general_ci		No	None	AUTO_INCREMENT		<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	<b>fname</b>	varchar(20)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	<b>Iname</b>	varchar(20)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	<b>email</b>	varchar(40)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	<b>phno</b>	varchar(11)	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	<b>msg</b>	text	utf8mb4_general_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table structure, there is a section for indexes:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
<a href="#">Edit</a> <a href="#">Rename</a> <a href="#">Drop</a>	PRIMARY	BTREE	Yes	No	id	0	A	No	

The screenshot shows the phpMyAdmin interface for the 'piyushshop' database. The 'contactus' table is selected. A single row of data is displayed:

	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	<b>id</b>	<b>fname</b>	<b>Iname</b>	<b>email</b>	<b>phno</b>	<b>msg</b>
				1	Vaibhav	Vishal	vaibhavvishal2003@yahoo.com	9455679031	Good job!

Below the table, there is a section for query results operations:

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

## Conclusion

From the project "E-commerce website", the details of a working interface of the website has been shown. This interface can be implemented in different workspaces with the use of HTML, CSS, Javascript, SQL and XAMPP server.

The desired outputs of the source codes as well as the database connection are working properly. After completing the project, I was able to learn how to successfully execute

a real industry project. I learnt how to write effective code to make a website, connect it to the database, and write queries to obtain data from the database. All of this comes together to form a working system which can later help me make projects which are well accepted by all clients.

I would like to thank my guide Ms. Marjina Khatun for encouraging me towards the successful completion of this project. Lastly, I would like to thank the entire staff of IOCL Kolkata who helped me in whichever way they could.

## Bibliography

The information required for this project was obtained from various sources including books and the internet.

The websites which offered me with valuable resources are as follows:

1. [www.languedoc121tech.fr](http://www.languedoc121tech.fr)
2. [www.apachefriends.org](http://www.apachefriends.org)
3. [www.quora.com](http://www.quora.com)
4. [www.tutorialspoint.com](http://www.tutorialspoint.com)
5. [www.w3schools.com](http://www.w3schools.com)
6. [www.stackoverflow.com](http://www.stackoverflow.com)
7. [www.sitepoint.com](http://www.sitepoint.com)
8. [www.linuxhint.com](http://www.linuxhint.com)