

PROJECT P2

A REPORT ON

E-COMMERCE WEBSITE FOR AGRO INPUT

SOLUTIONS

Submitted By:

Akshay Patidar

Harsh Upadhyay

Chitranshi Mishra

Vaishnavie

Version: 1.0, 2.0

Document Created On: 20th June 2021

Document Last Modified: 21st July 2021

TABLE OF CONTENTS

1. Objective	3
2. Technologies Used	3
3. Data Flow Diagram	6
4. Modules in V-1	7
4.1 Home	7
4.2 Sign-Up & Login	8
4.3 Our Products	10
4.4 About us	12
4.5 Nearby attraction	13
4.6 Contact Us	14
5. Modules in V-2	15
5.1 Area Serviceability Check	15
5.2 Email Functionality for Contact Us	18
5.3 Theme Switching	20
5.4 Scroll to top functionality	22
5.5 Forgot Password	22
5.6 Forgot Username	24
5.7 Our Store	26
5.8 Shopping Cart Integration	26
5.9 Checkout form for the payment gateway	27
5.10 Payment Gateway	31
6. System Requirements	31
6.1 Software Requirements	31
6.2 Install and Setup XAMPP	32
6.3 Setup MySQL Database	34
6.4 Configure SMTP	38
7. Milestones	40
8. References	40
9. Code (GitHub Link)	41

1. Objective

The objective of this project is to design an Agro-based e-commerce website, that offers organic products to the customer/consumer.

2. Technologies Used

The tools and technologies used in the project are:

HTML

- HTML stands for HyperText Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

CSS

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on the screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files.

JavaScript

JavaScript ("JS" for short) is a full-fledged dynamic programming language that can add interactivity to a website. It is a programming language that adds interactivity to your website.

It itself is relatively compact, yet very flexible. Developers have written a variety of tools on top of the core JavaScript language, unlocking a vast amount of functionality with minimum effort.

These include:

- Browser Application Programming Interfaces ([APIs](#)) built into web browsers, providing functionality such as dynamically creating HTML and setting CSS styles; collecting and manipulating a video stream from a user's webcam, or generating 3D graphics and audio samples.
- Third-party APIs allow developers to incorporate functionality in sites from other content providers, such as Twitter or Facebook.
- Third-party frameworks and libraries that you can apply to HTML to accelerate the work of building sites and applications.

MySQL

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is a fast, scalable, and easy-to-use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with [PHP](#) scripts for creating powerful and dynamic server-side or web-based enterprise applications.

PHP

PHP is a server-side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Preprocessor, which earlier stood for Personal Home Pages.

- PHP scripts can only be interpreted on a server that has PHP installed.
- The client computers accessing the PHP scripts require a web browser only.
- A PHP file contains PHP tags and ends with the extension ".php".
- PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems,s and web frameworks.

Xampp

XAMPP is an abbreviation where *X* stands for *Cross-Platform*, *A* stands for *Apache*, *M* stands for *MYSQL*, and the *Ps* stand for *PHP* and *Perl*, respectively. It is an open-source package of

web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl.

XMPM helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects. Based on Apache, Perl, MySQL database, and PHP through the system of the host itself.

Among these technologies, Perl is a programming language used for web development. PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL.

Razor Pay

A System Designed to Handle End to End Payments

Accept All Payment Modes

With Domestic and International Credit & Debit cards, EMIs (Credit/Debit Cards & Cardless), PayLater, Netbanking from 58 banks, UPI and 8 mobile wallets, Razorpay provides the most extensive set of payment methods.

Checkout and Global Card Saving

An easy to integrate Checkout with cards saved across businesses so that your customers can pay seamlessly everywhere.

Powerful Dashboard

Get reports and detailed statistics on payments, settlements, refunds and much more for you to take better business decisions.

Built for Developers

Robust, clean, developer friendly APIs, plugins and libraries for all major languages and platforms that let you focus on building great products.

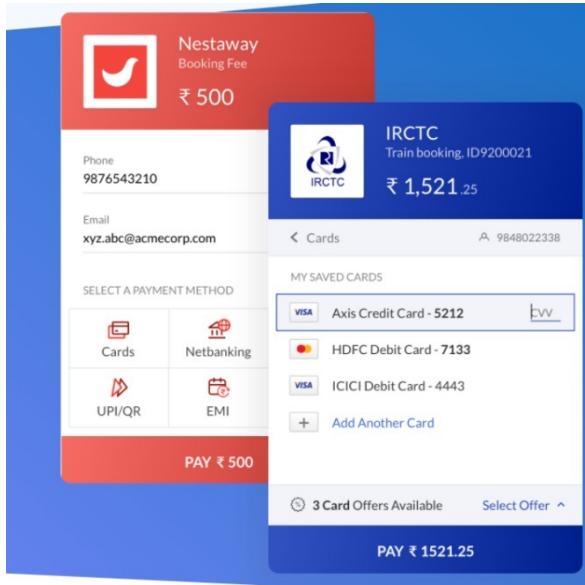


What is a Payment Gateway?

A payment gateway is an e-commerce service that processes online payments for online as well as offline businesses. Payment gateways help accept payments by transferring key information from their merchant websites to issuing banks, card associations, and online wallet players.

What platforms does Razorpay payment gateway support?

Razorpay helps you accept online payments from customers across Desktop, Mobile web, Android & iOS. Additionally, by using Razorpay Payment Links, you can collect payments across multiple channels like SMS, Email, WhatsApp, Chatbots & Messenger.



The screenshot displays two separate payment forms side-by-side:

- Nestaway Booking Fee:** Shows a logo of a red square with a white bird icon. The amount is ₹ 500. It includes fields for Phone (9876543210) and Email (xyz.abc@acmecorp.com). A section titled "SELECT A PAYMENT METHOD" offers options: Cards, Netbanking, UPI/QR, and EMI. A large red button at the bottom says "PAY ₹ 500".
- IRCTC Train booking, ID9200021:** Shows a logo of a blue square with a white train icon. The amount is ₹ 1,521.25. It includes a "Cards" section with a back arrow, a "MY SAVED CARDS" section listing Axis Credit Card - 5212, HDFC Debit Card - 7133, and ICICI Debit Card - 4443, and a "+ Add Another Card" button. A note indicates "3 Card Offers Available" with a "Select Offer" dropdown. A large blue button at the bottom says "PAY ₹ 1521.25".

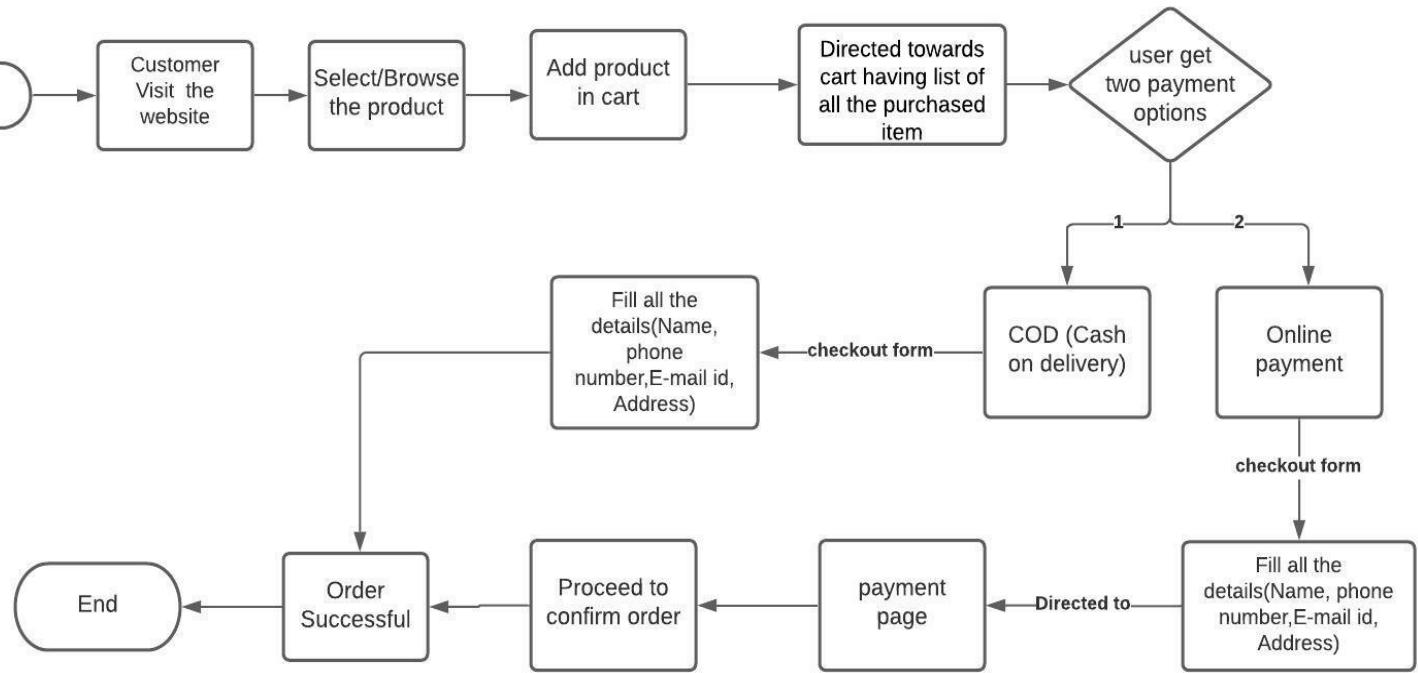
Flash Checkout

Tap into a store of 4 million+ saved cards and say goodbye to requiring customers to type card details every time.

- ✓ Better Conversions than ever
- ✓ Flaunt your Brand with Custom UI
- ✓ Easy Integration with less code
- ✓ 4+ Million saved cards across businesses
- ✓ Personalised payment experience for every user
- ✓ Native OTP

[KNOW MORE](#)

3. Data Flow Diagram

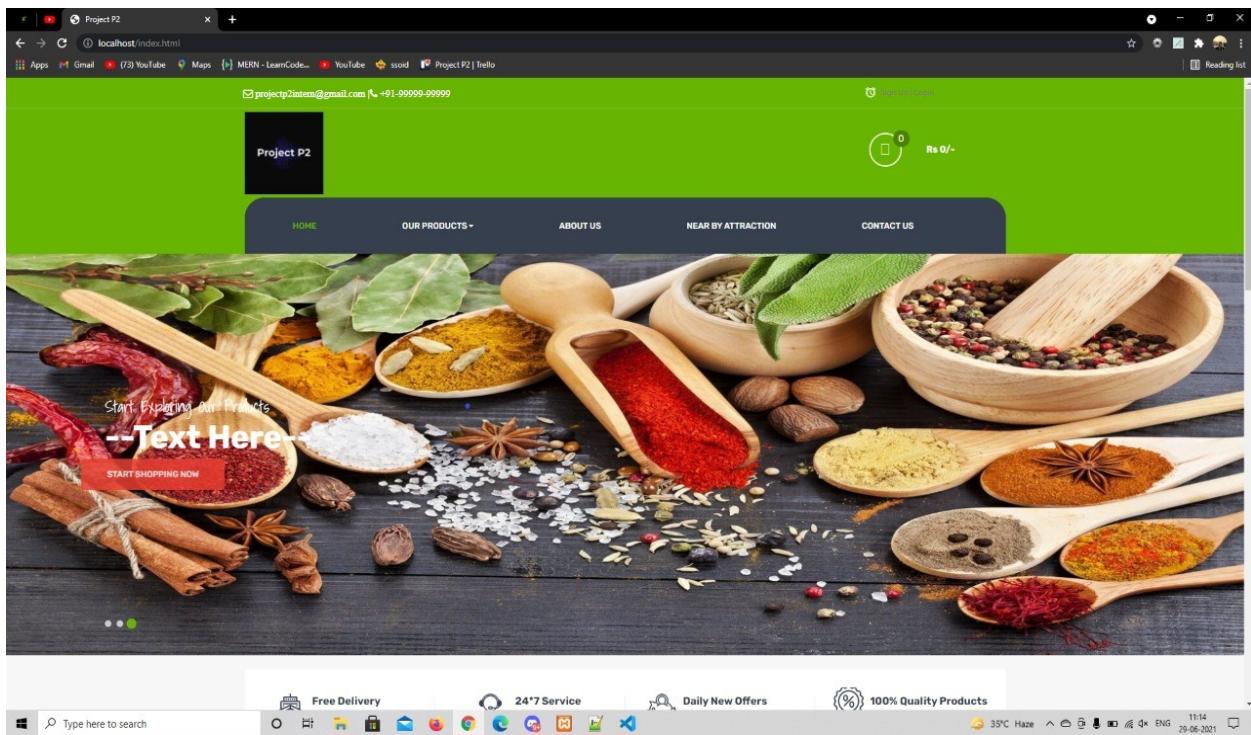


4. Modules in V-1

- Home
- Login & sign-up
- Our Products
- About us
- Nearby attraction
- Contact us

4.1 Home

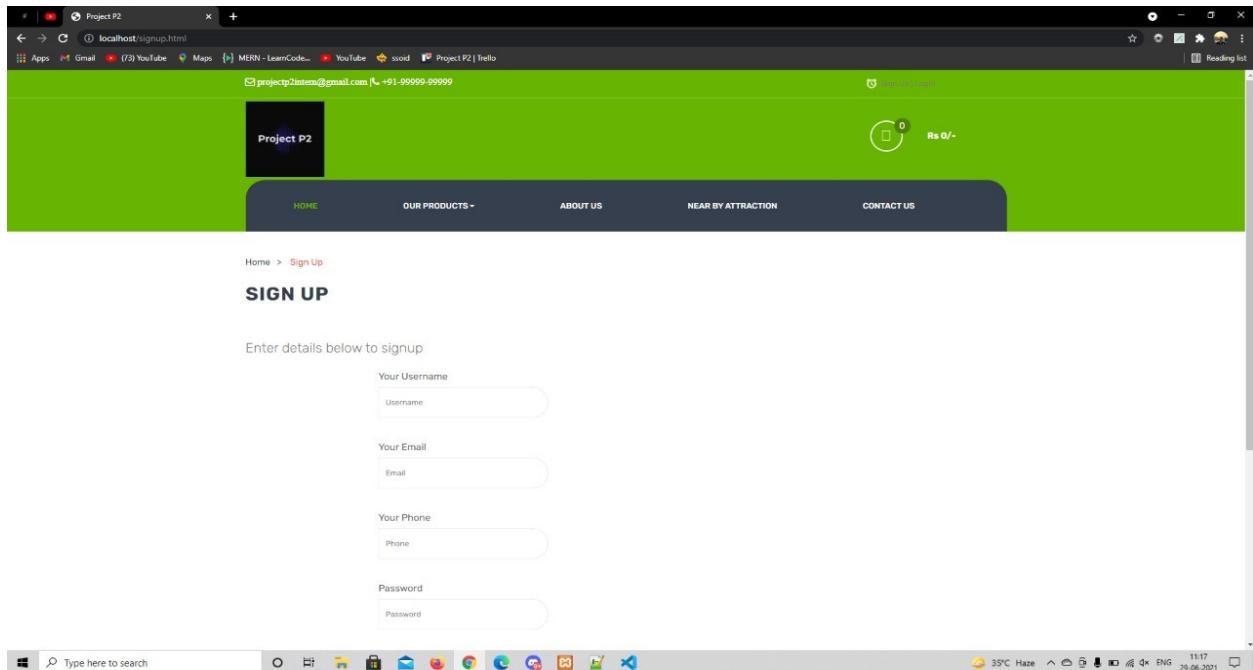
This is the landing page of the agro-based eCommerce website. In the header section of this page, there are links to navigate to all other pages of the website like the home page, the signup page, the login page, our products page, the about us page, the contact us page, and the nearby attractions page. Then there is an image slider that is implemented using the Nivo Slider jQuery plugin. This slider is used to display the daily offer:- or some special offer that we are offering to our customers.

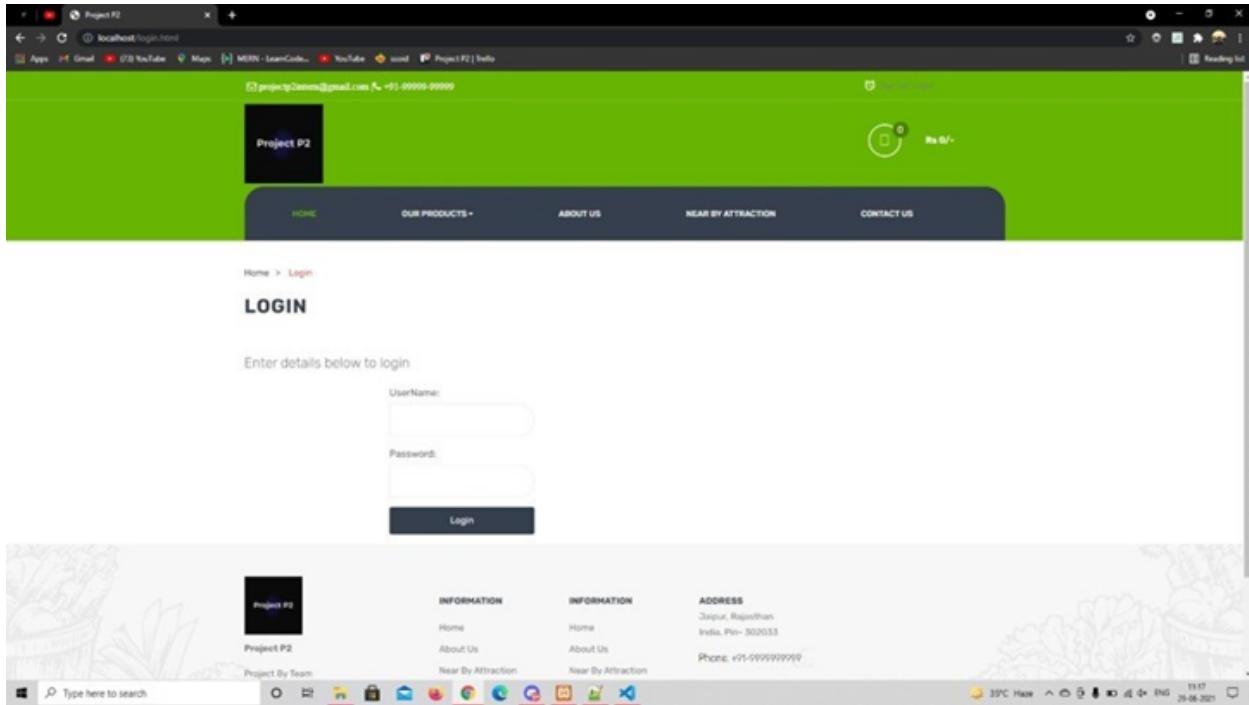


4.2 Sign-Up & Login

The sign-up page is designed for the customer who wants to sign up for our website, unlike the ones who go for a guest checkout option. The user has to sign up by filling in the necessary details such as user name, email, phone number, and password. Once the user clicks on the signup button a PHP script runs and all the details are stored in the database using MySQL insert query.

In the login section, the user has to enter the username and password entered at the time of signing up. Once the user clicks on the login button the entered values are checked with the values present in the database using a MySQL query, if the values match with the values present in the database then a Login Successful message is displayed and if the values do not match with the values in the database an Invalid password or Username message is displayed.





4.3 Our Products

In our products section, there are four categories that we have designed like vegetables, fruits, herbs, spices, we can further add more categories according to our need

Inside the Categories, there are sub-categories to organize products and make it easier for customers to find them.

Like in the fruit section we have pineapple, cherry, pomegranate, and similarly, there are sub-categories for herbs, spices, vegetables as well.

Category 1

localhost/products/category1.html

projectp2intern@gmail.com +91-99999-99999

Project P2

HOME OUR PRODUCTS ABOUT US NEAR BY ATTRACTION CONTACT US

Home > Our Products > Category 1

SUB CATEGORIES

- Category 1
- Category 2
- Category 3
- Category 4

	Product 1_1	Product 1_2	Product 1_3	Product 1_4
Rs 200/-	Rs 55/-	Rs 198/-	Rs 190/-	
Rs 190/-	Rs 52.25/-	Rs 188.1/-	Rs 171/-	

FEATURED PRODUCTS

	Product 2_1	Product 2_2	Product 2_3	Product 2_4
Rs 140/-	Rs 200/-	Rs 11/-	Rs 230/-	
Rs 207/-				

Type here to search

35°C Haze 11:15 ENG 29-06-2021

Category 2

localhost/products/category2.html

projectp2intern@gmail.com +91-99999-99999

Project P2

HOME OUR PRODUCTS ABOUT US NEAR BY ATTRACTION CONTACT US

Home > Our Products > Category 2

SUB CATEGORIES

- Category 1
- Category 2
- Category 3
- Category 4

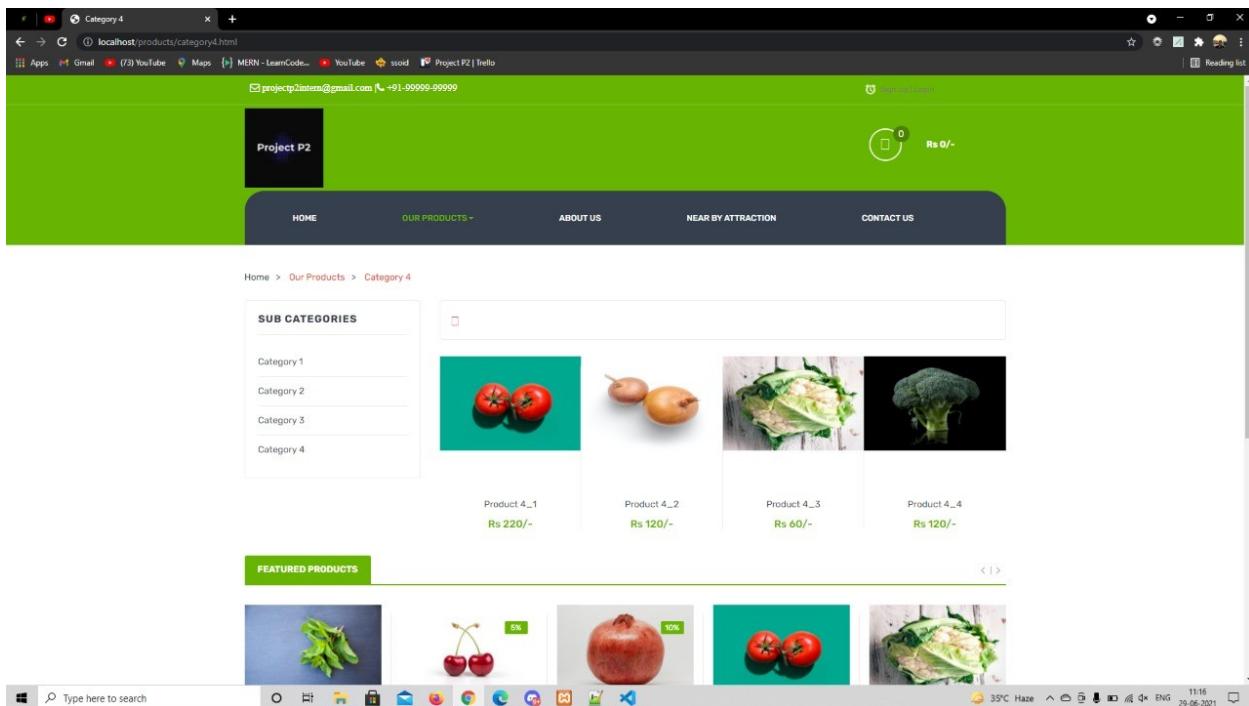
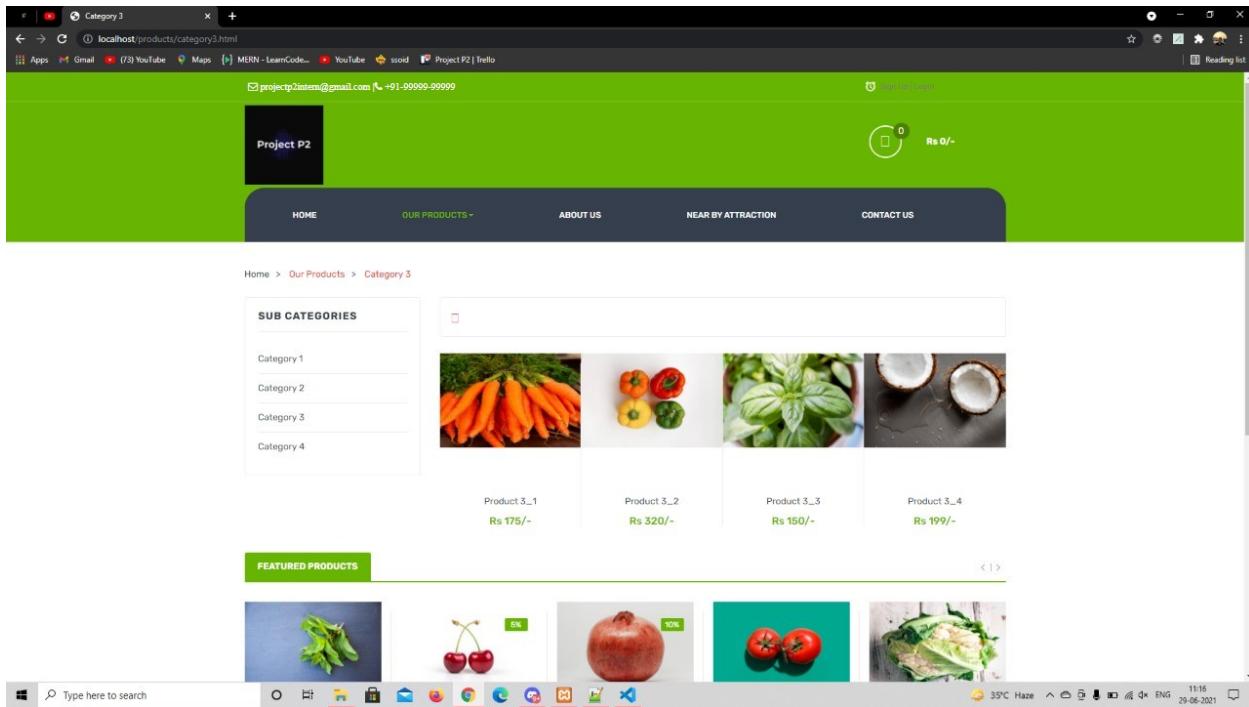
	Product 2_1	Product 2_2	Product 2_3	Product 2_4
Rs 140/-	Rs 200/-	Rs 11/-	Rs 230/-	
Rs 207/-				

FEATURED PRODUCTS

	Product 1_1	Product 1_2	Product 1_3	Product 1_4
Rs 200/-	Rs 55/-	Rs 198/-	Rs 171/-	
Rs 190/-	Rs 52.25/-	Rs 188.1/-	Rs 190/-	

Type here to search

35°C Haze 11:15 ENG 29-06-2021

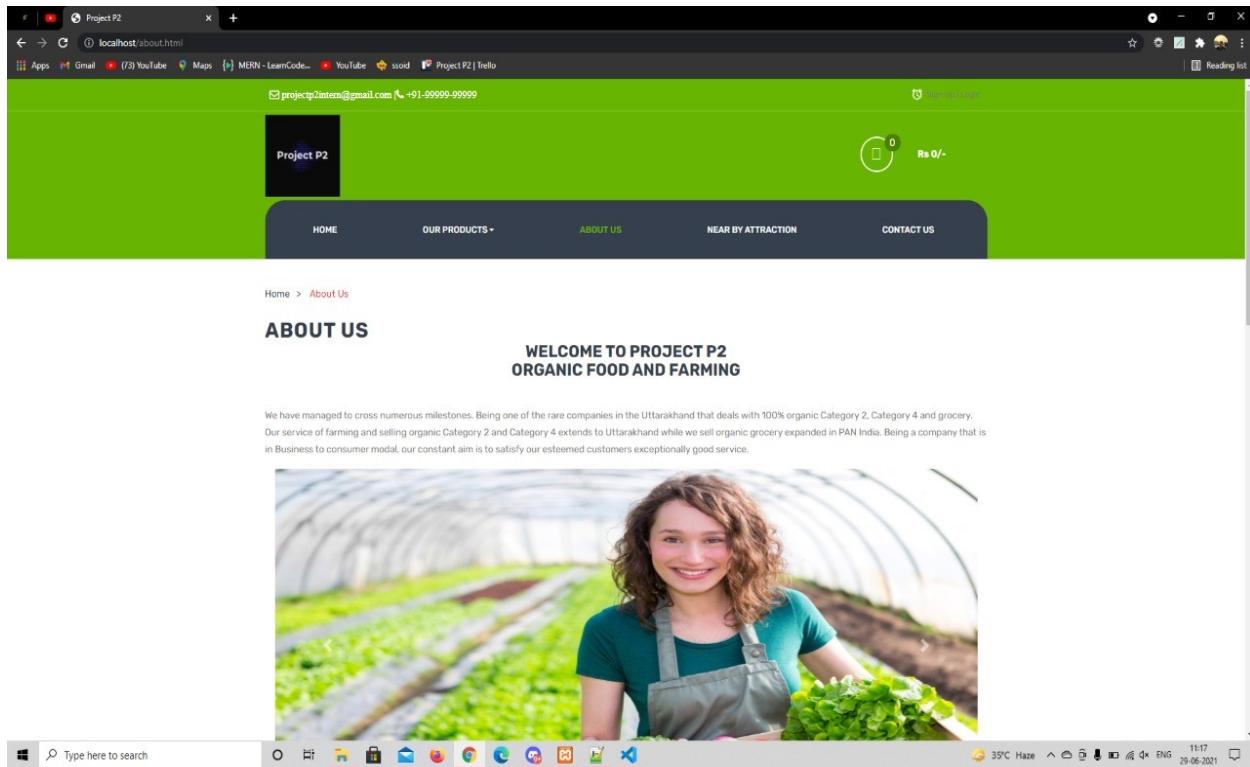


4.4 About us

The About Us page is not only packed full of interesting and useful information about our brand, and our team, but it also encapsulates what our brand is as a whole, both stylistically and in terms of personality.

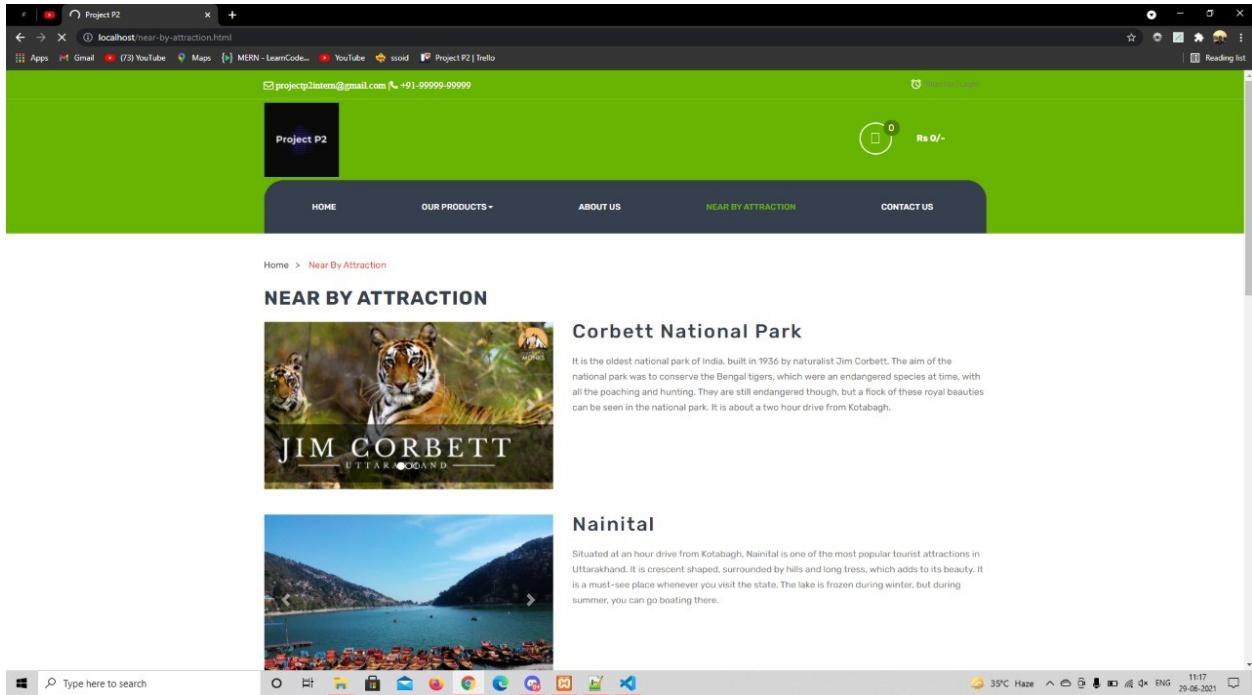
It's where potential customers will go to find out why we are passionate about our products – and why they should be, too.

A well-crafted About Us page is the key to building trust and loyalty with our customers.



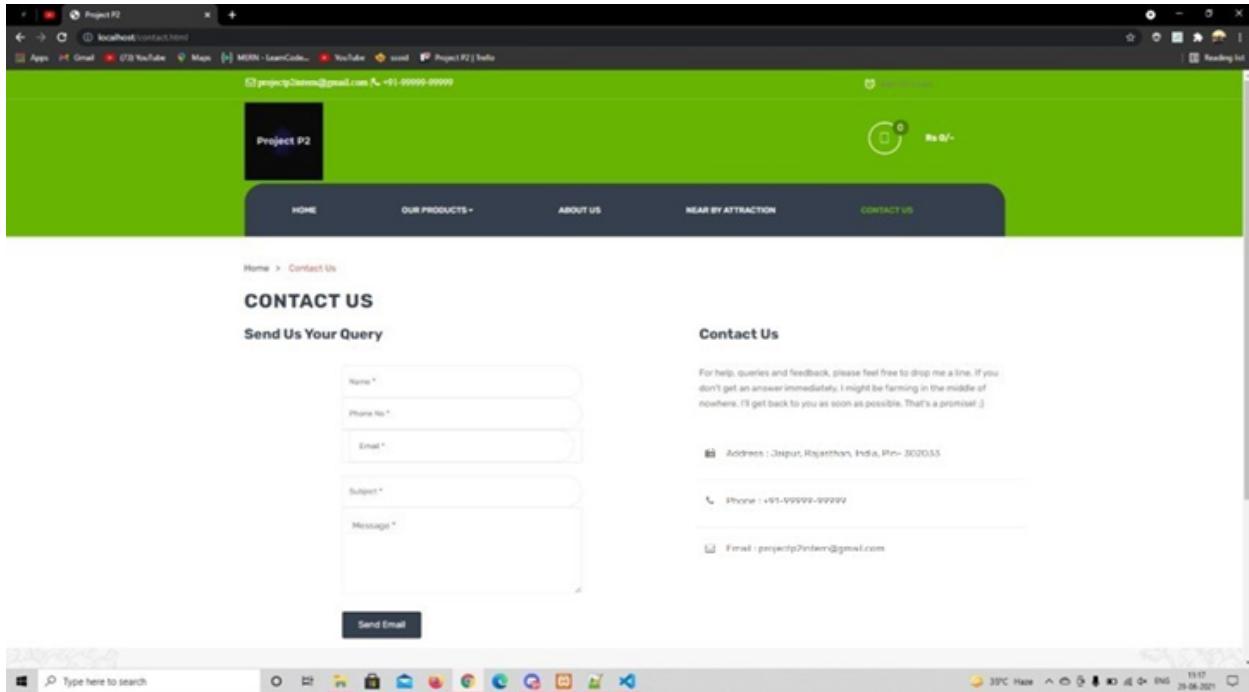
4.5 Nearby attraction

In this module i.e, the nearby attraction we added it as an extra fun element to our website so that people can explore nearby sites for recreation purposes.



4.6 Contact Us

Contact us page is important for any website because through this page customers more easily connect with you using their preferred method of contact, the more likely you are to hear from them.



5. Modules in V-2

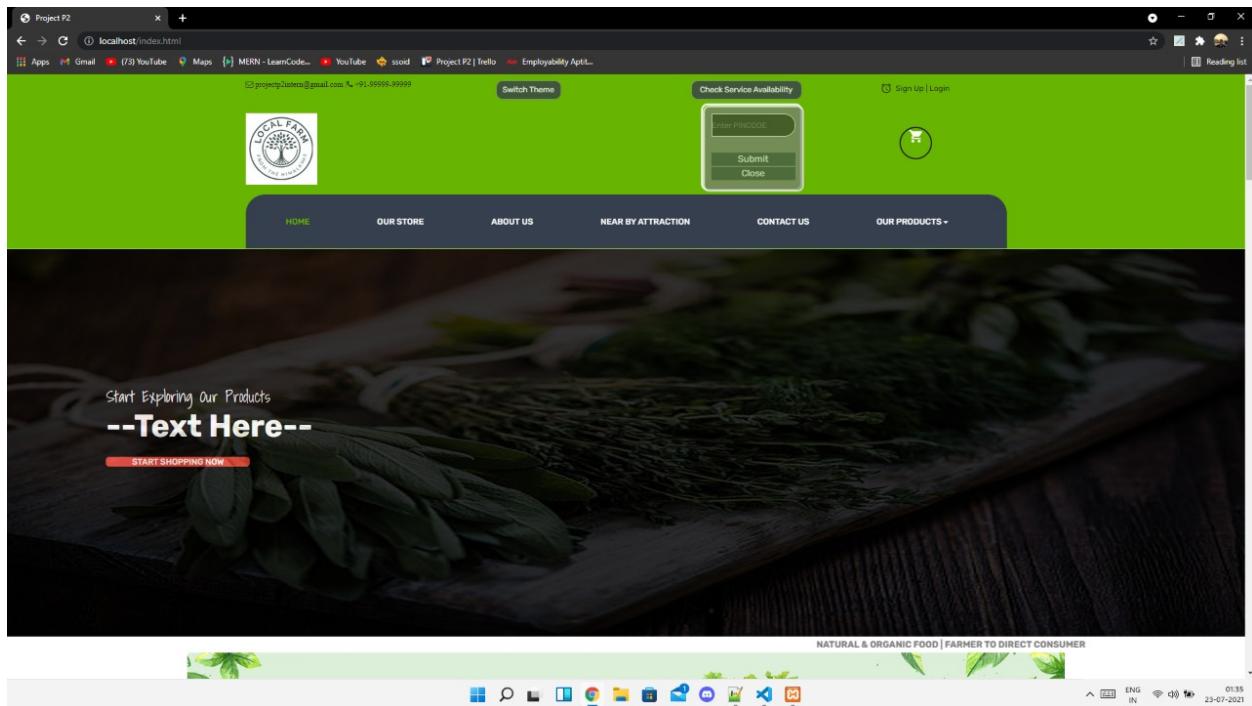
- Area Serviceability Check
- Email Functionality for Contact Us
- Theme Switching
- Scroll to top functionality
- Forgot Password
- Forgot Username
- Our store
- Shopping Cart Integration
- Checkout form for the payment gateway
- Payment Gateway

5.1 Area Serviceability Check

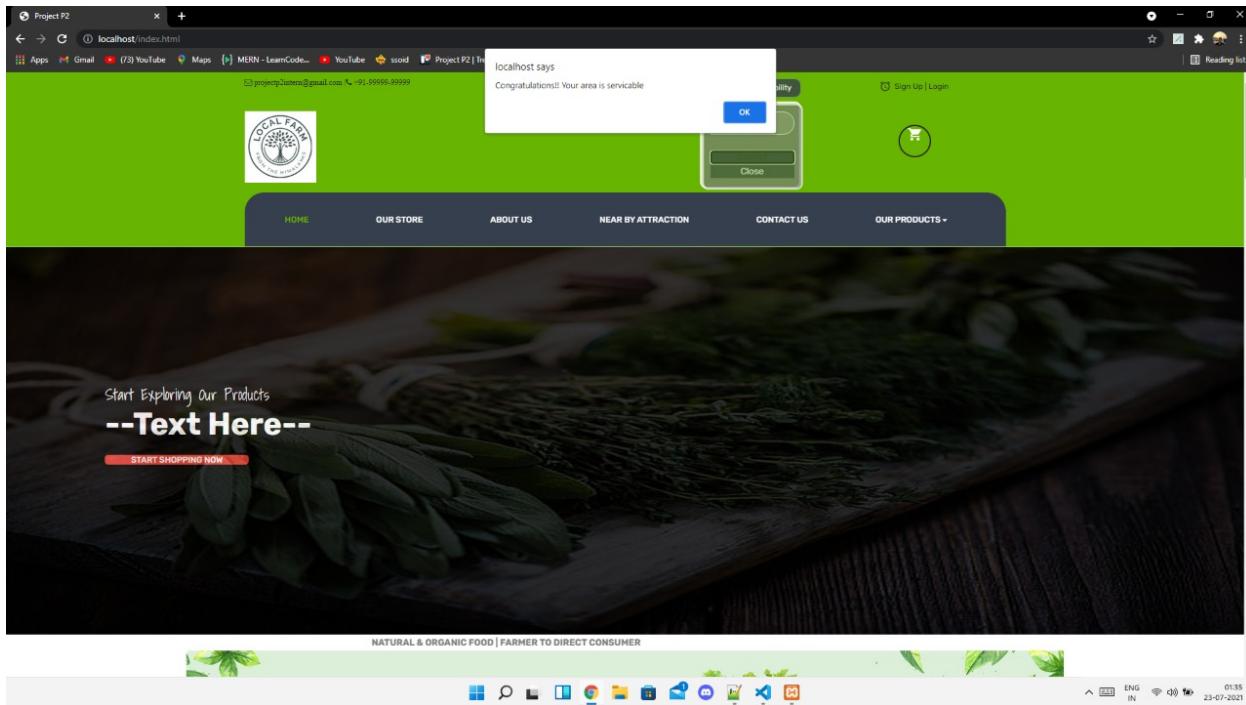
Forms are used in web pages for the user to enter their required details that are further sent to the server for processing. A form is also known as a web form or HTML form. Examples of form use are prevalent in e-commerce websites

Web forms are used to collect user's information such as name, email address, **location**, age, and so on. But sometimes users do not enter the expected details. So it is crucial to validate the form data before sending it to the server-side. For form validation, client-side JavaScript can help us. HTML form validation can be done by JavaScript. If a form field (fname) is empty, this function alerts a message, and returns false, to prevent the form from being submitted. Form validation checks the accuracy of the user's information before submitting the form. JavaScript provides faster client-side form validation than server-side validation does. Server-side validation requires more time first occurring on the server, which requires the user's input to be submitted and sent to the server before validation occurs. Thus, client-side validation helps to create a better user experience. A lot of developers prefer JavaScript form validation.

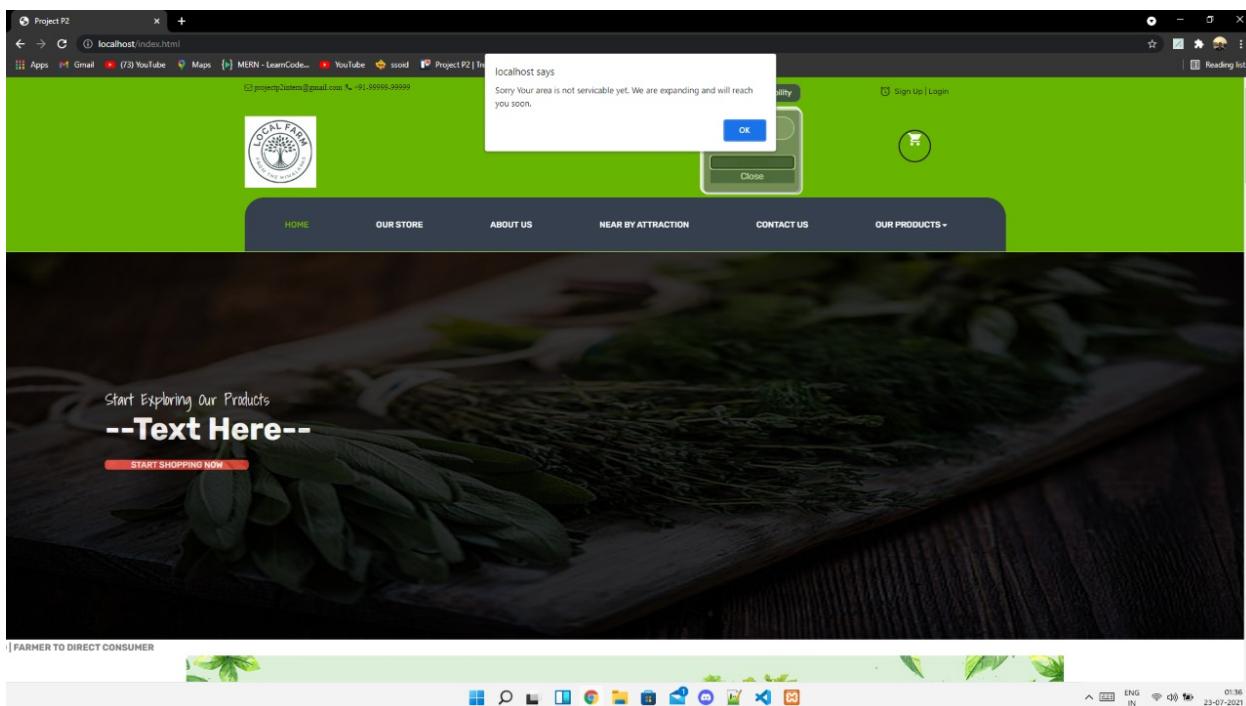
The popup for the pin code checking is also implemented using JavaScript.



Area Serviceability Check Popup



Area Serviceable Message



Area Not Serviceable Message

5.2 Email Functionality for Contact Us

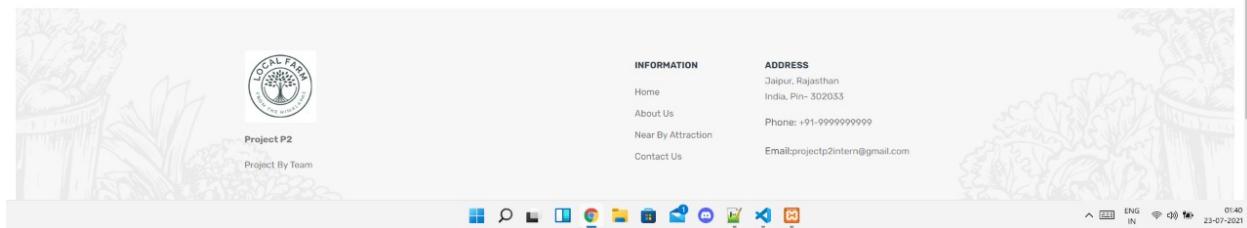
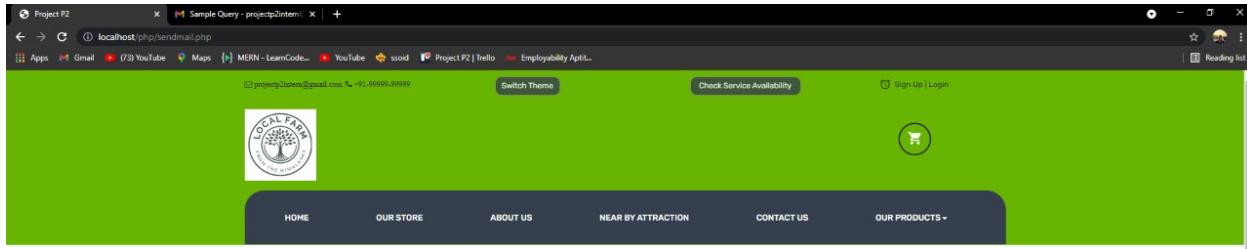
The contact us page is designed for the customer queries so that they can directly send their message via this page and their query can be resolved and they get the feedback within 48 hours. Here the customers have to fill in their Name, Phone Number, Email, Subject, and message. All these are then sent to the customer support team using the SMTP mailing protocol and the PHP Mail function.

PHP mail is the built-in PHP function that is used to send emails from PHP scripts. It's a cost-effective way of notifying users of important events. Let users contact you via email by providing a contact us form on the website that emails the provided content.

PHP mailer uses SMTP to send mail. **SMTP** stands for Simple Mail Transfer Protocol. It is an internet standard communication protocol that allows the software to transmit electronic mail over the internet. Mail servers and other message transfer agents use SMTP to send and receive mail messages.

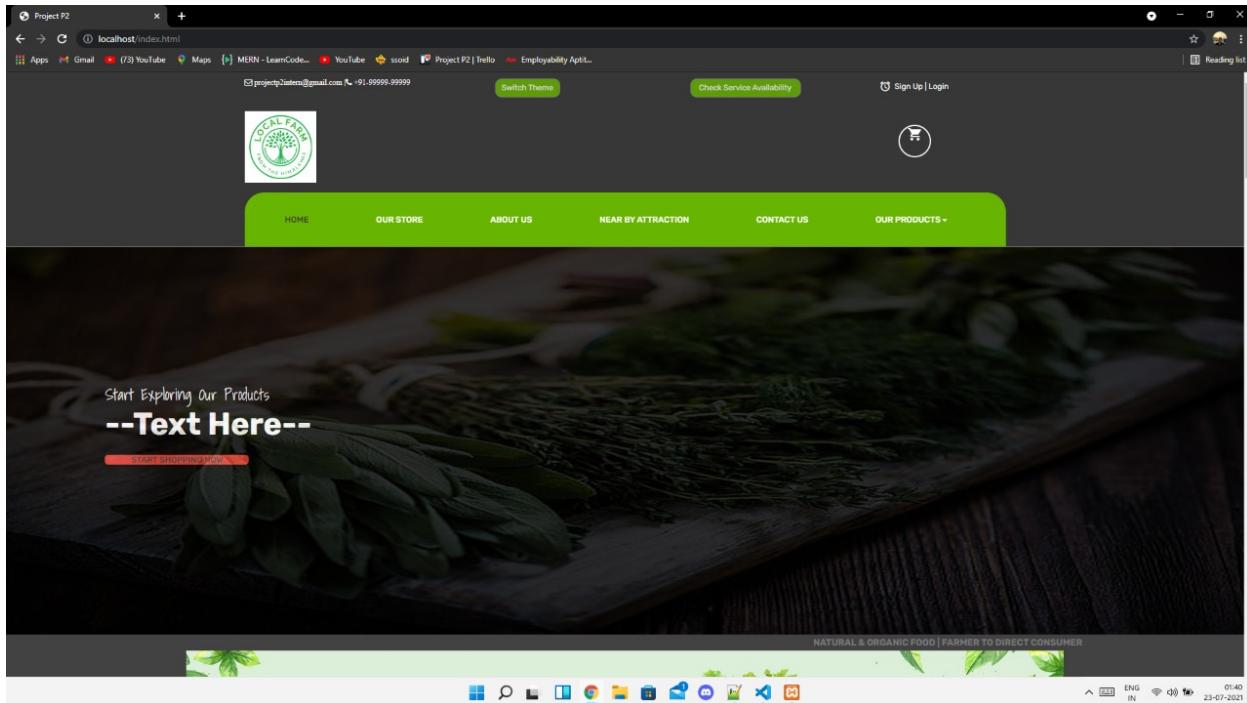
The steps involved in the setup and configuration of the SMTP on locally hosted servers are discussed in detail in the System Requirements section in this report.

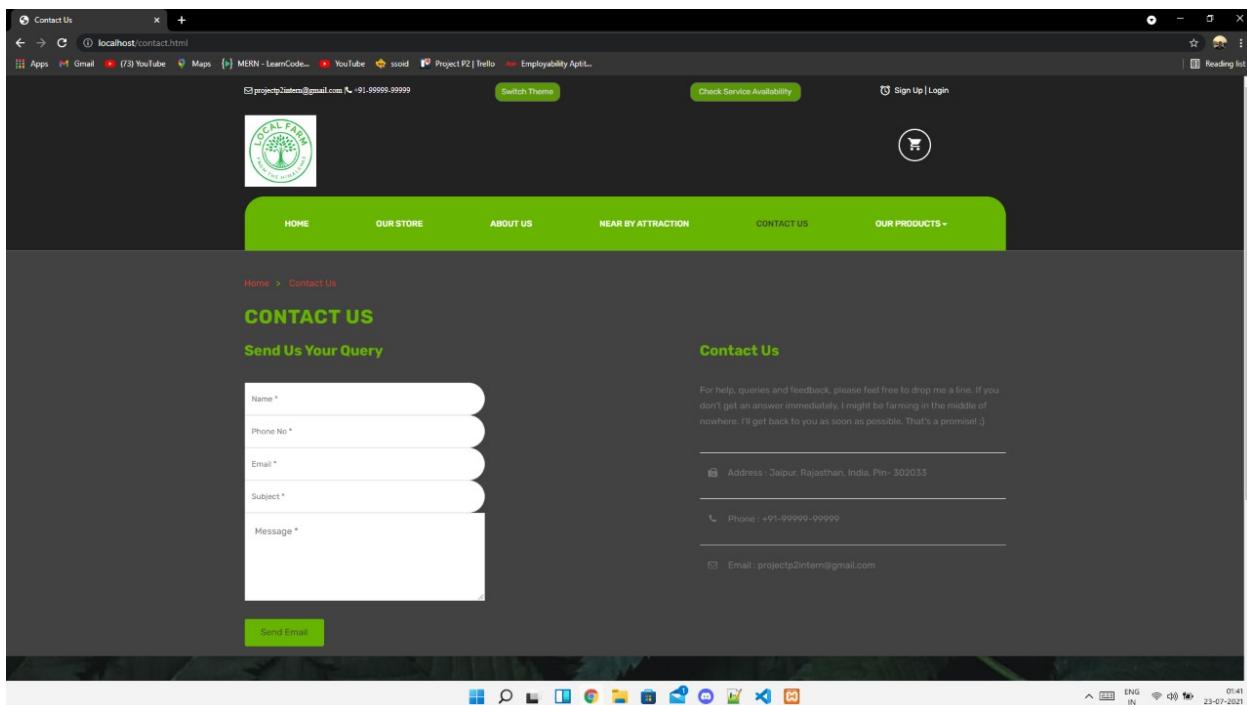
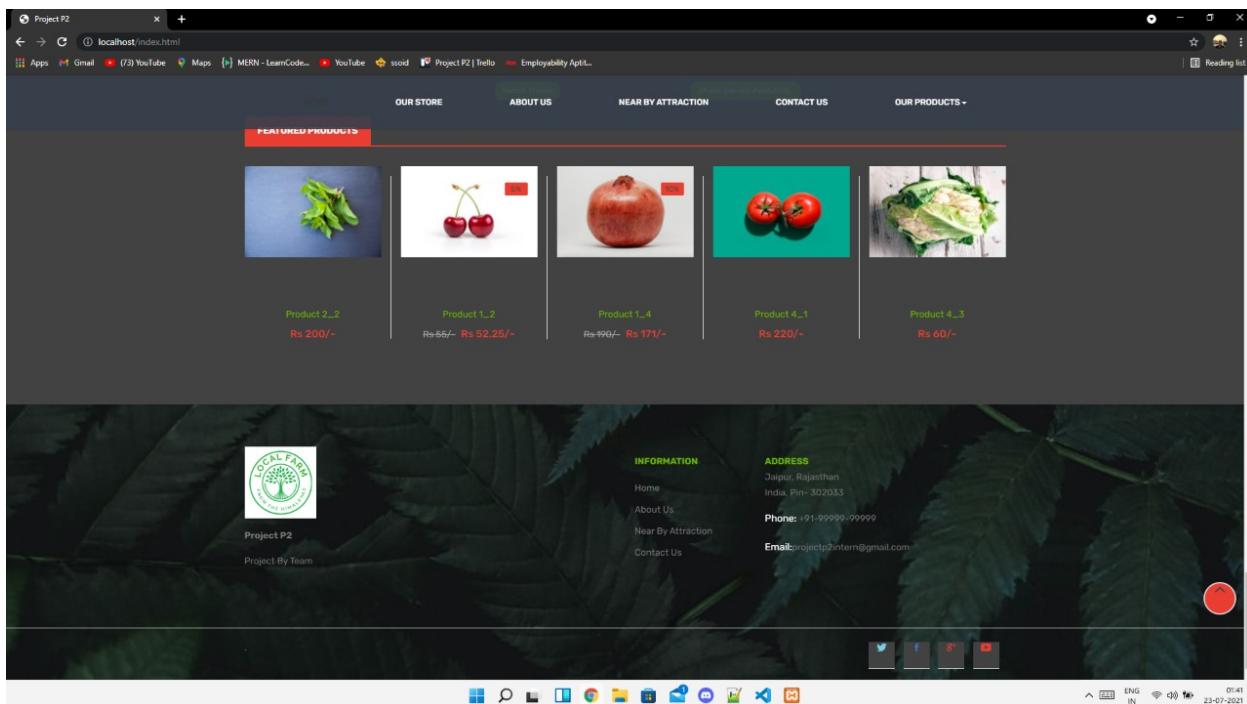




5.3 Theme Switching

This is an ease of access feature added to the website to make users comfortable with their choice of theme.



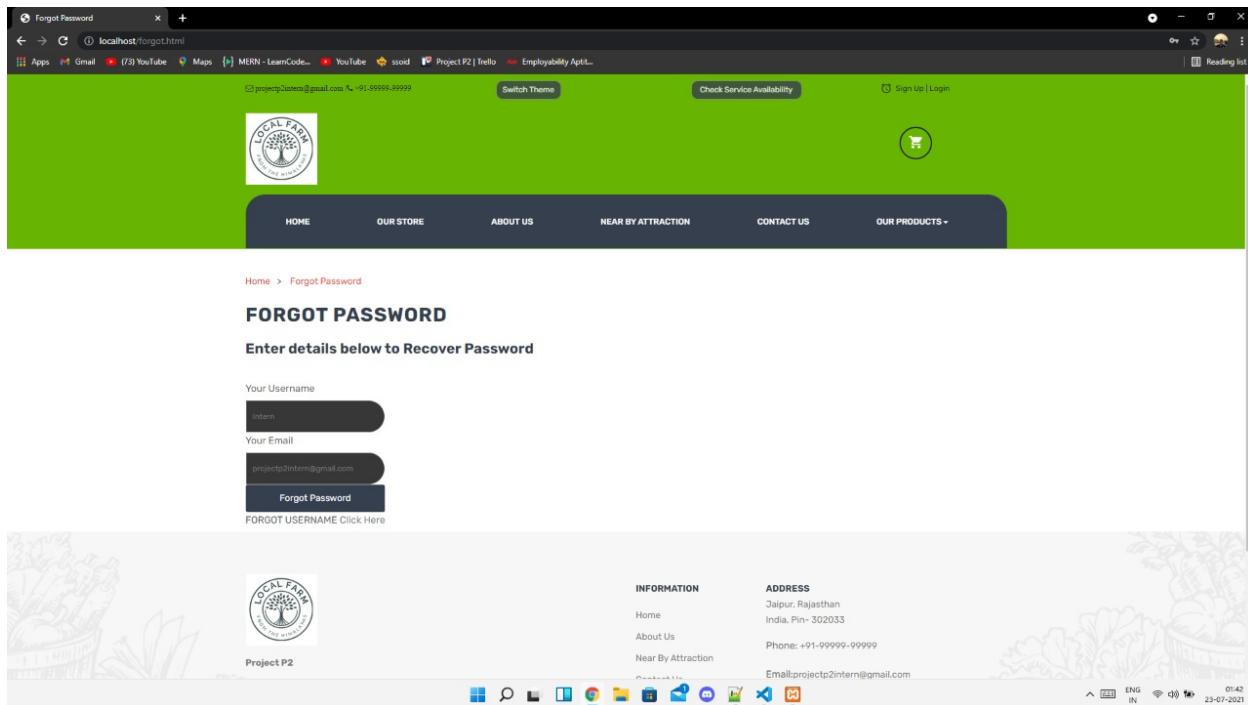


5.4 Scroll to top functionality

The scroll-to-top functionality is implemented using the jQuery ScrollUp plugin. The scroll is a **lightweight jQuery plugin to create a customizable "Scroll to top" feature** that will work with any website, with ease.

5.5 Forgot Password

The forgot password functionality helps in the case when a user forgets the password that was entered at the time of signing up. This forgot password page takes the username and the email address as input. On clicking the forgot password button a PHP script gets triggered and queries the MySQL database to find the password matching the entered username and the email address. Then this password(output of the SQL query) is stored in a different variable and is then sent to the user email address using the PHP mail function.



Screenshot of a web browser showing a password recovery page for "Project P2". The URL is "localhost/php/forgot.php". The page has a green header with a logo, a navigation bar with links like HOME, OUR STORE, ABOUT US, NEAR BY ATTRACTION, CONTACT US, and OUR PRODUCTS. A message in a box says "Your password has been successfully sent on your registered Email address".

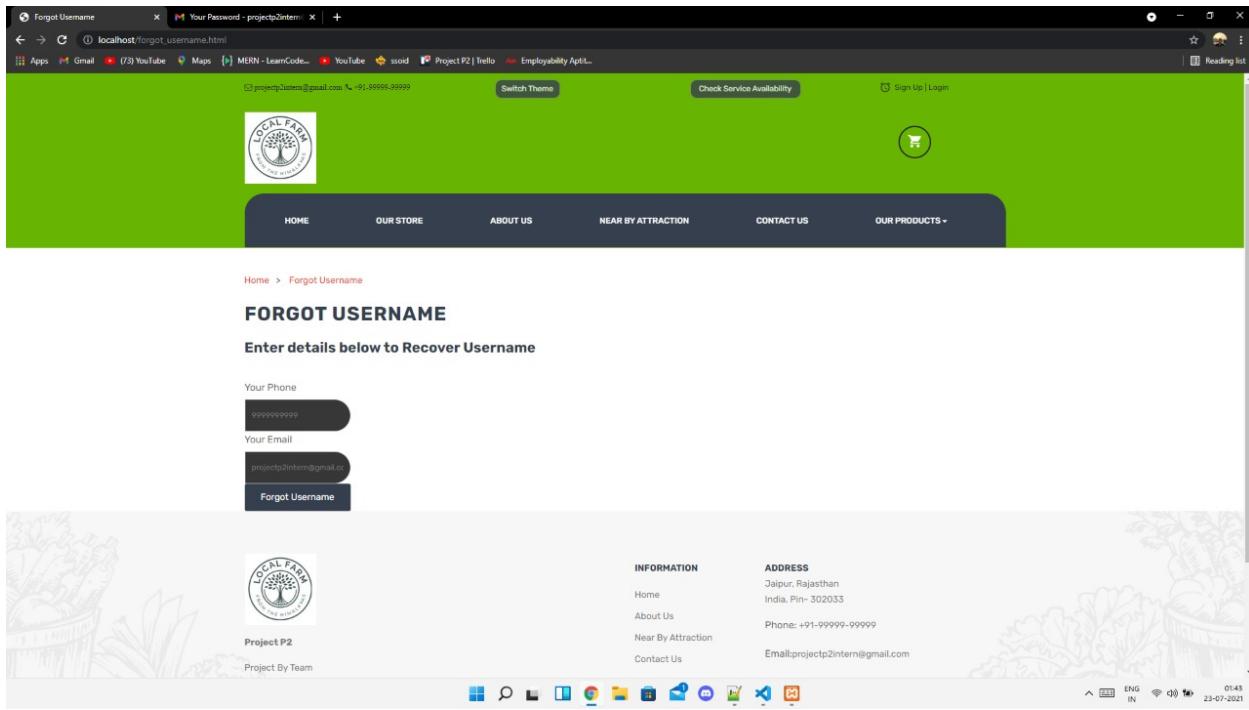
Screenshot of a desktop screen showing the Project P2 website. The header includes the logo, a search bar, and a shopping cart icon. Below the header is a navigation menu with links: HOME, OUR STORE, ABOUT US, NEAR BY ATTRACTION, CONTACT US, and OUR PRODUCTS. To the right, there is information about the address and contact details.

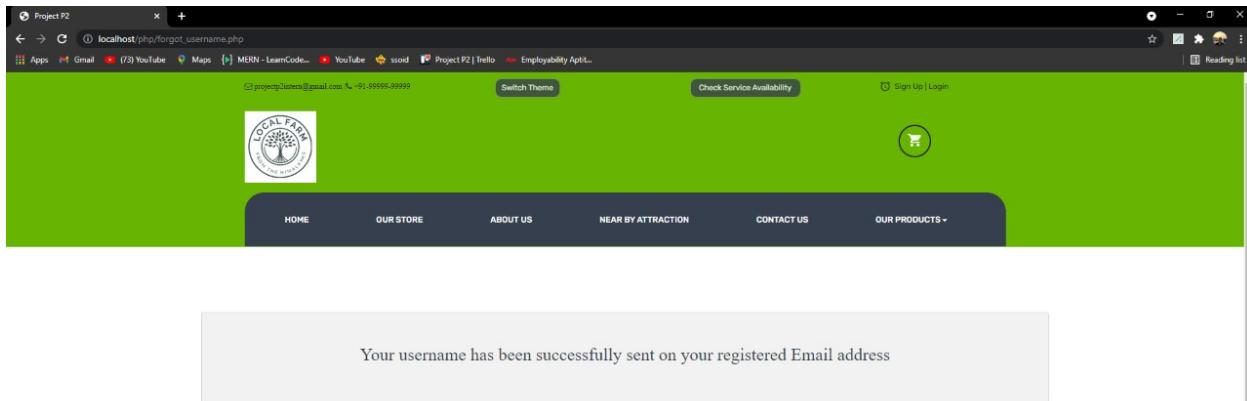
Screenshot of a web browser showing an email from Gmail titled "Your Password". The email body contains a message: "Hi We just received your forgot password request. The password for the entered Username - Intern is - intern123".

Screenshot of a desktop screen showing the Gmail inbox with the same email listed. The email has a timestamp of "1:42 AM (0 minutes ago)".

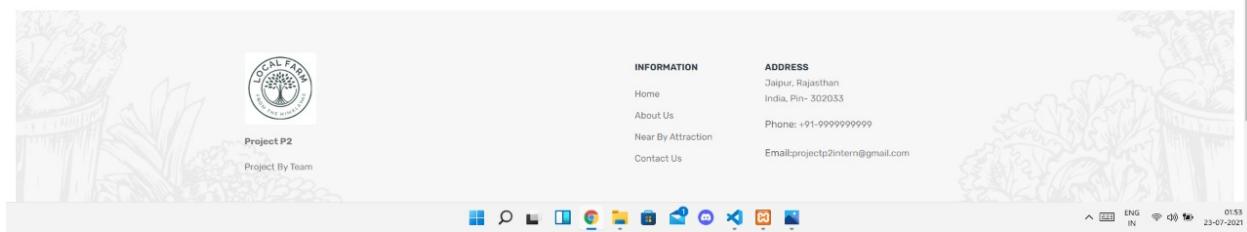
5.6 Forgot Username

In case, a user forgets the username entered at the time of signing up. The forget username page works similar to the forget password, the difference is just this page takes the user's phone number and email as input. On clicking the forgot username button a PHP script gets triggered and queries the MySQL database to find the username matching the entered phone number and the email address. Then this username(output of the SQL query) is stored in a different variable and is then sent to the user email address using the PHP mail function.





Your username has been successfully sent on your registered Email address

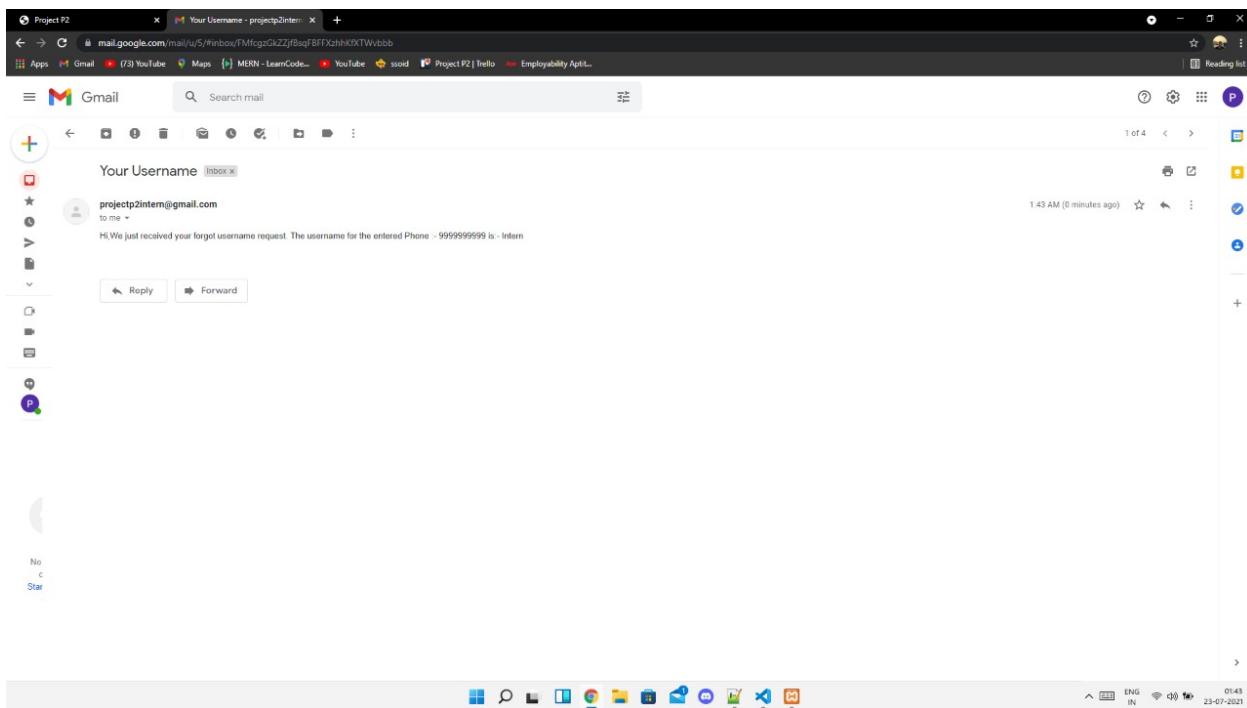


INFORMATION

- Home
- About Us
- Near By Attraction
- Contact Us

ADDRESS

- Jaipur, Rajasthan
- India, Pin- 302033
- Phone: +91-9999999999
- Email: projectp2intern@gmail.com



Your Username [Inbox]

projectp2intern@gmail.com
to me ▾

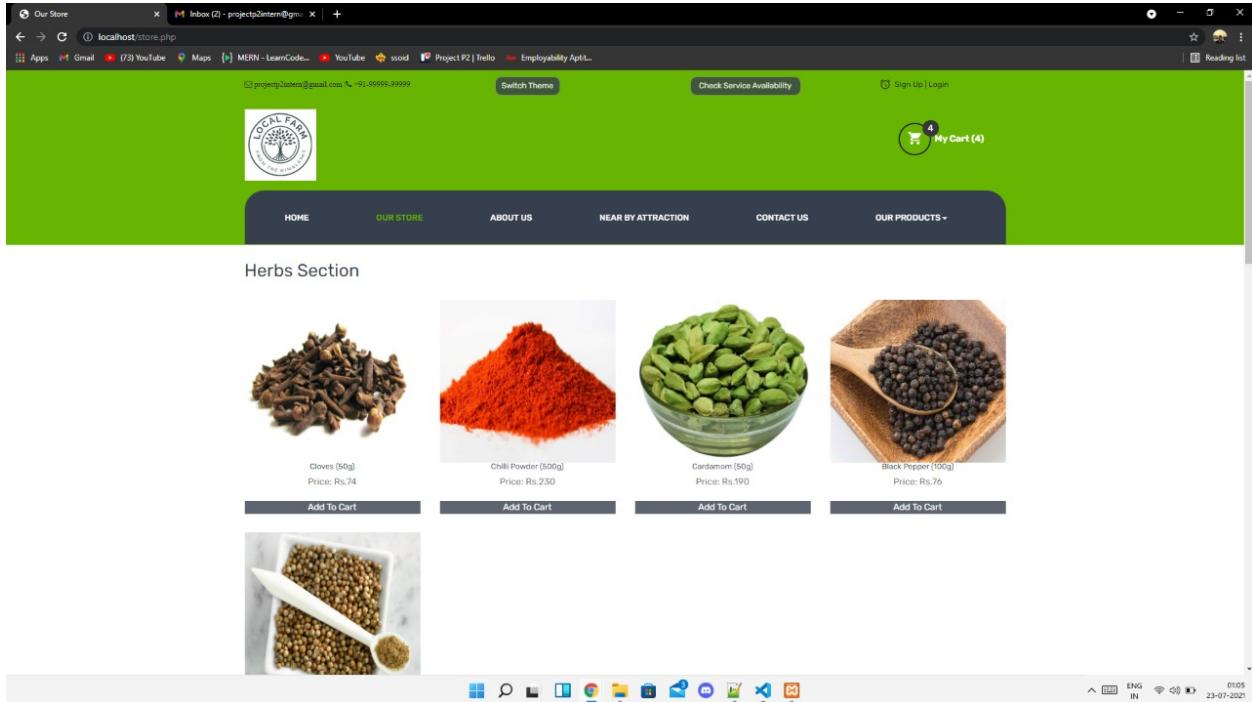
Hi! We just received your forgot username request. The username for the entered Phone - 9999999999 is - Intern

143 AM (0 minutes ago)

Reply **Forward**

5.7 Our Store

In our store category, customers can come and purchase the products and add them to the cart. Like herbs, vegetables, and fruits.



5.8 Shopping Cart Integration

An online shopping cart is a software that provides the necessary features for customers to make a retail purchase from your website. Some shopping cart software is quite simplistic and only adds the bare essentials, like products and a checkout page.

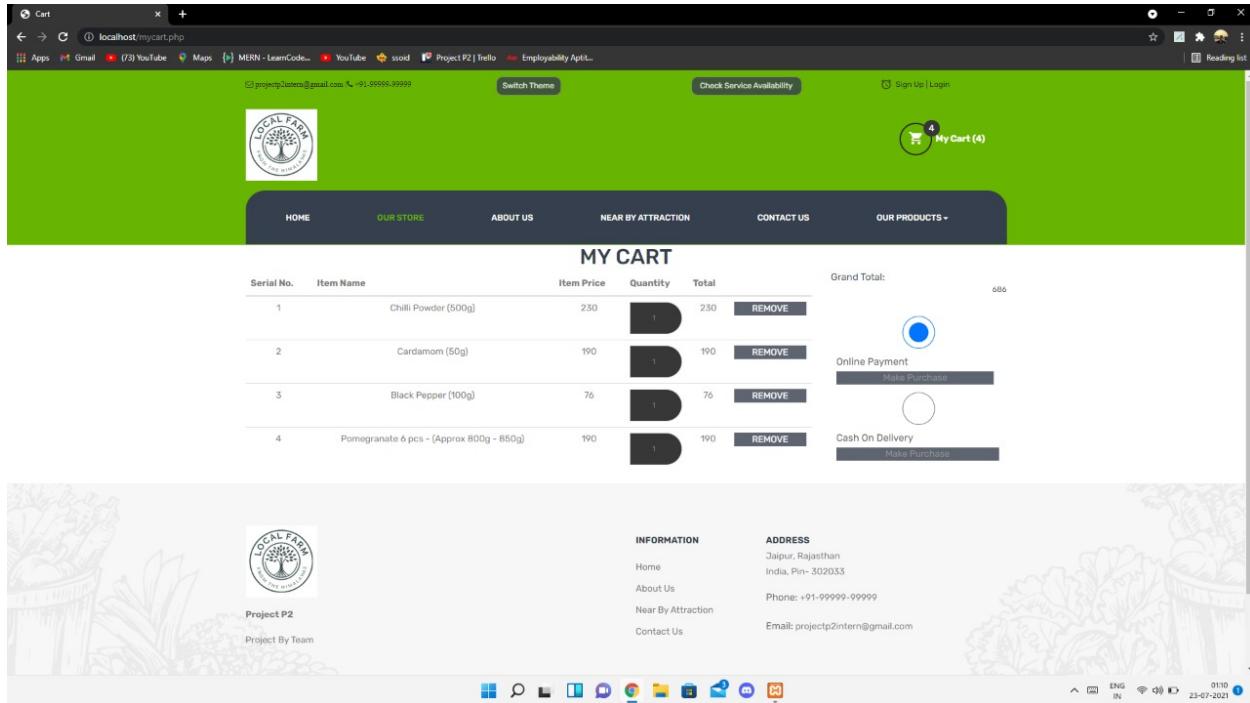
- A cart that allows customers to select multiple products at once before checkout
- A "Cart" page for reviewing the selected items

In this shopping cart functionality, we have two options

1. Online payment
2. COD (Cash on delivery)

If the user selects Online payment then they will be directed to the “RazorPay payment gateway”. After filling the check-out form.

Or if they select COD then after filling the checkout form their order gets confirmed.

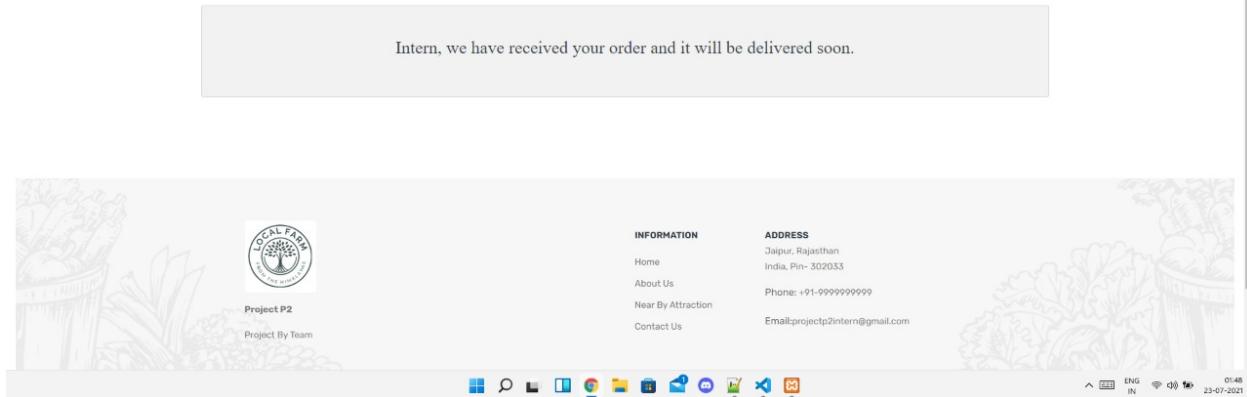
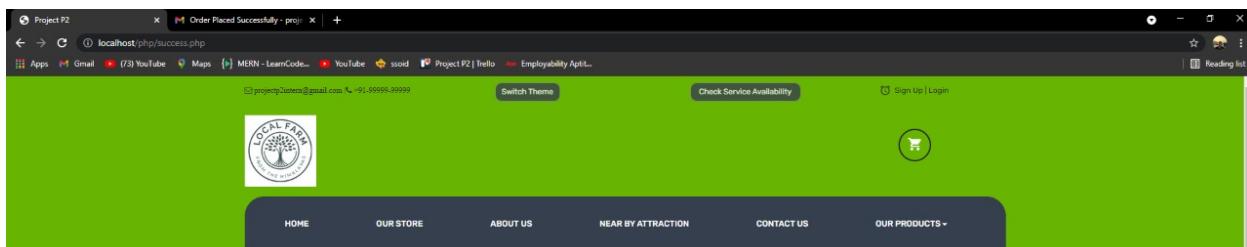
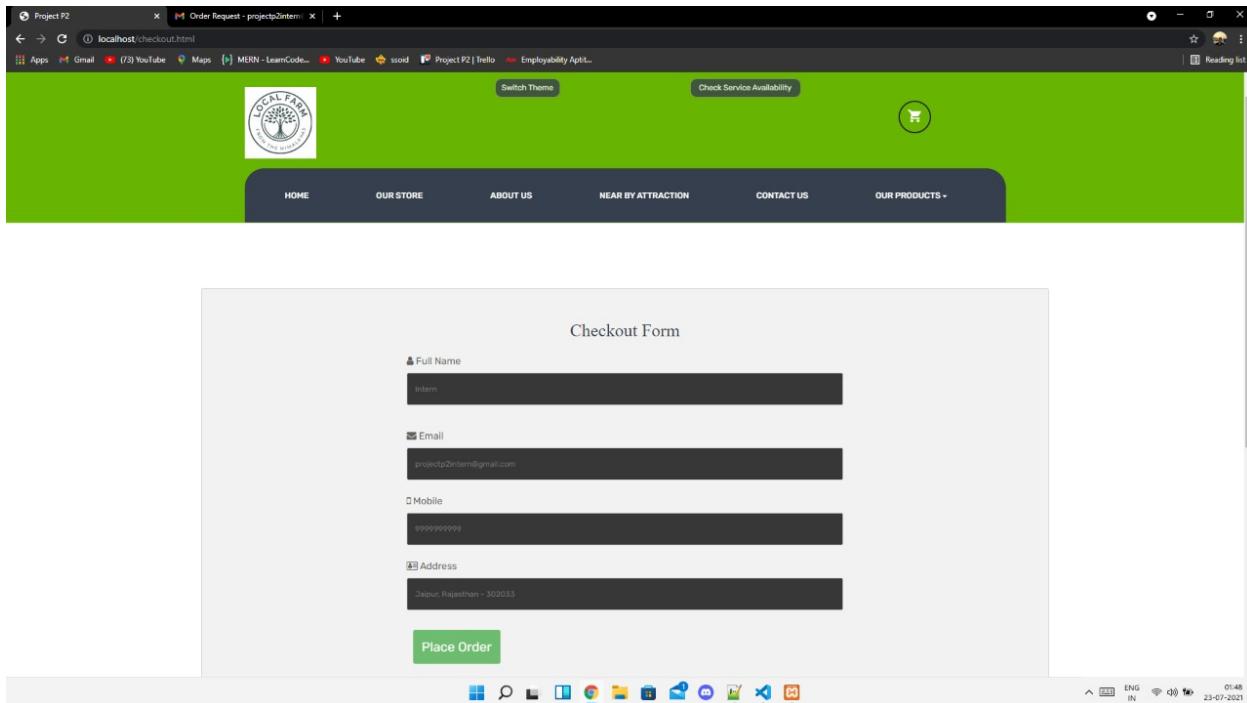


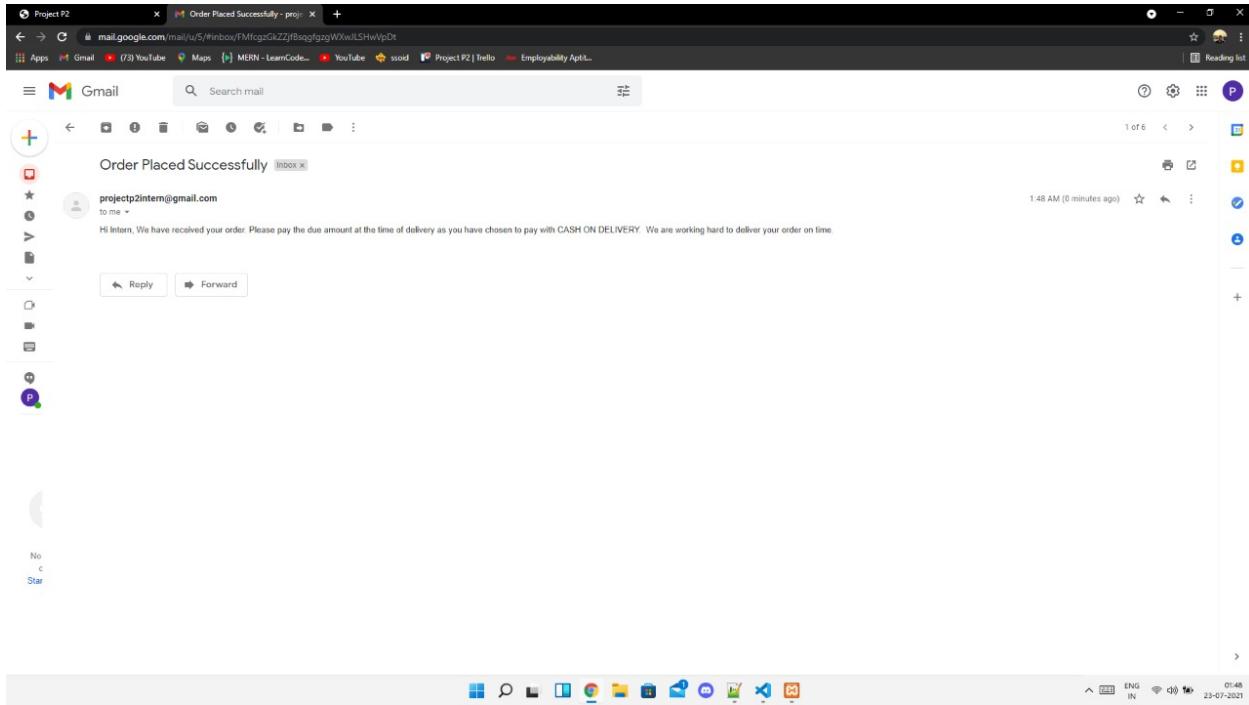
5.9 Checkout form for the payment gateway

COD

Once the order is added to the cart then the checkout form will appear and it will ask the customer the following details: Full name, Email, Mobile Number, Address.

After clicking on the PLACE ORDER button the customer will be redirected to the Order successful message page and an email confirmation will be sent to the customer.





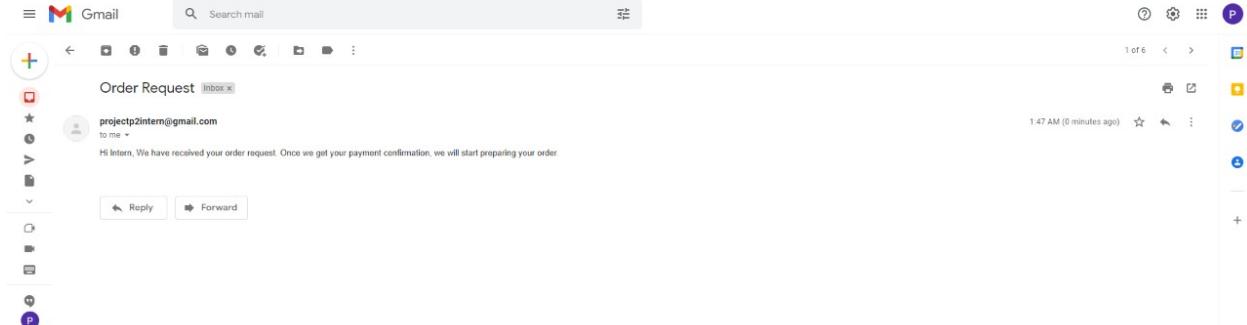
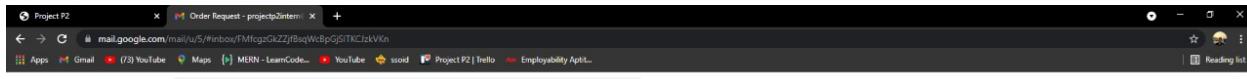
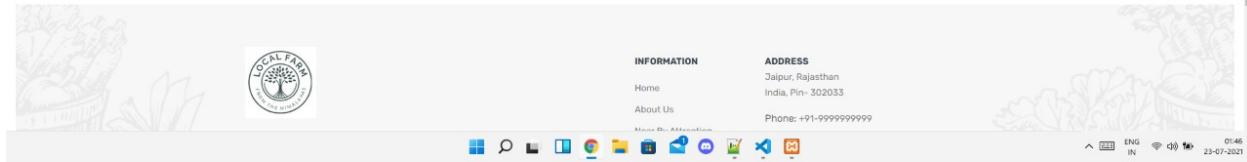
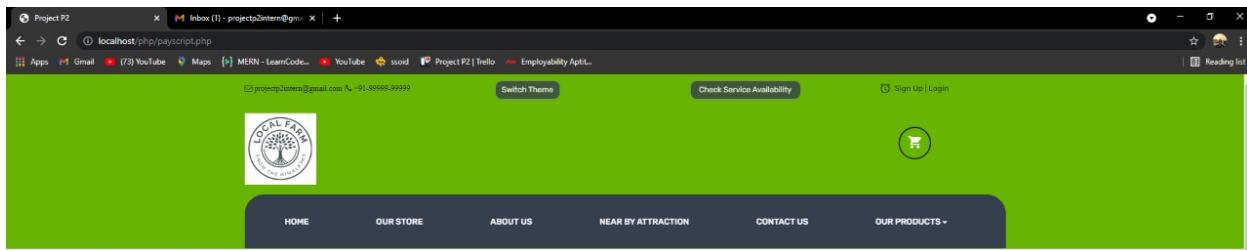
Online

Once the order is added to the cart then the checkout form will appear. It will ask the customer the following details: Full name, Email, Mobile Number, Address. After clicking on the PAY NOW button the customer will be redirected to the payment gateway.

The screenshot shows a web browser displaying a checkout form for a local farm. The form consists of several input fields:

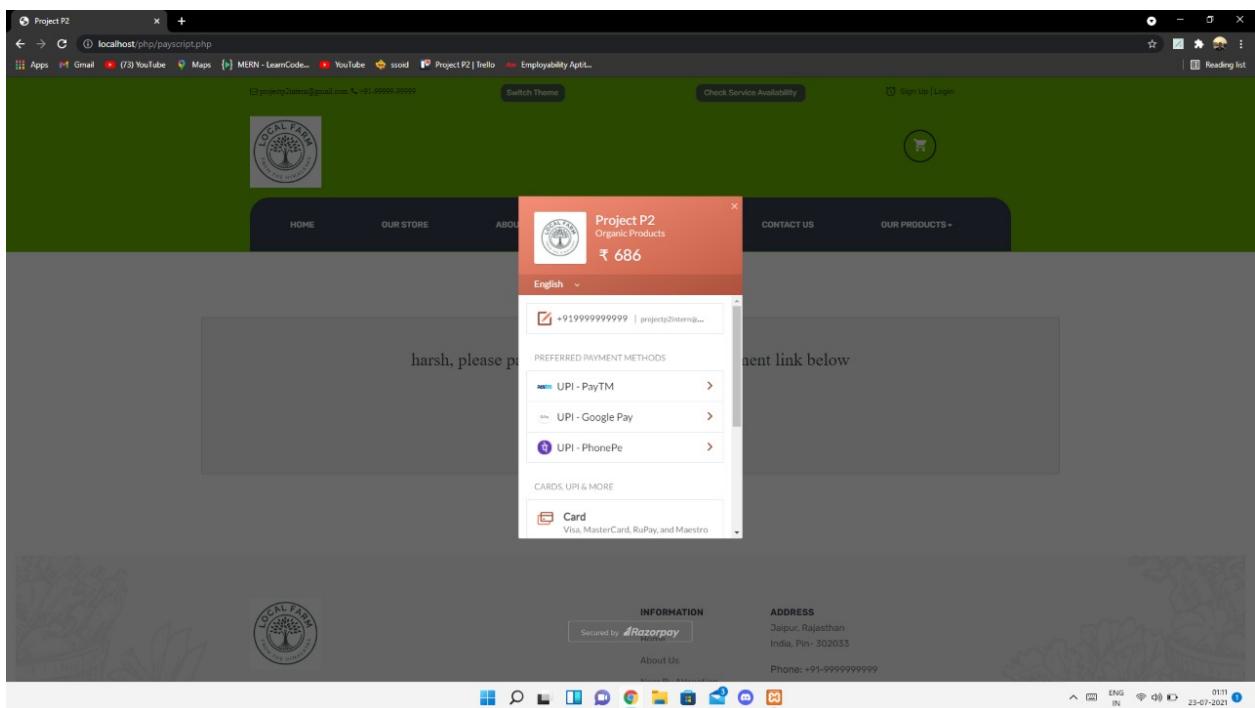
- Full Name:** Intern
- Email:** projectp2intern@gmail.com
- Mobile:** 9999999999
- Address:** Jaipur, Rajasthan

Below the form is a prominent green button labeled "Pay Now". The browser's address bar shows the URL "localhost:projectp2intern@gmail.com". The top of the screen displays various system icons and the date/time "23-07-2021 01:46".



5.10 Payment Gateway

We have mentioned the two payment options one is an online payment and the other is COD
If the user clicks on the button for the online payment option a window of razor pay screen appears then there are several options like UPI google pay, UPI Phone pay, net banking.



6. System Requirements

6.1 Software Requirements

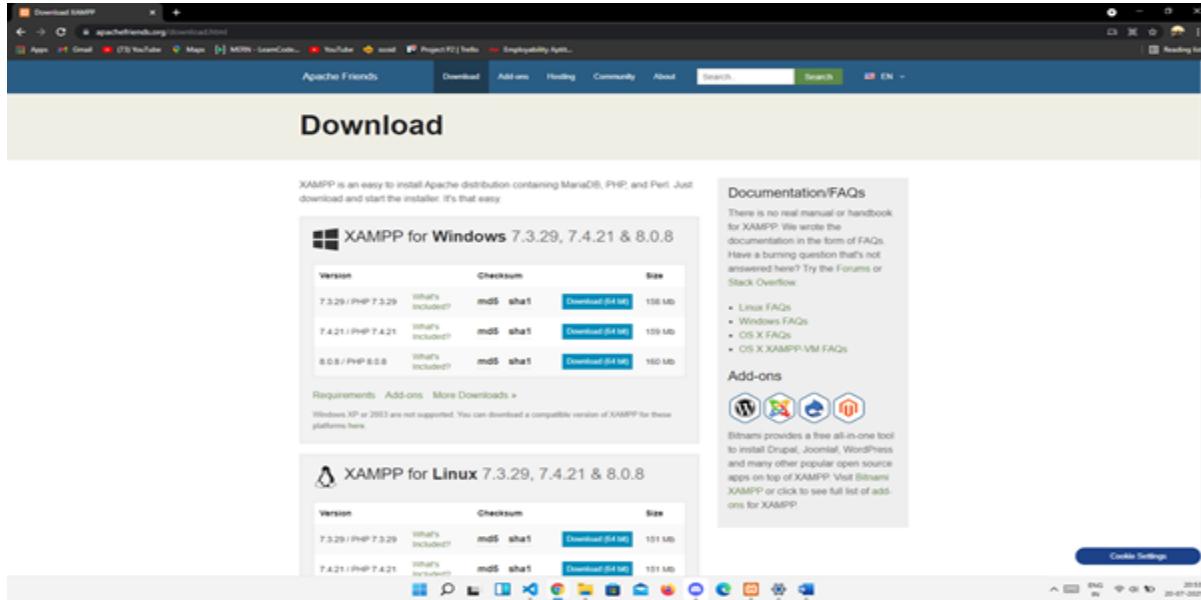
<u>Name of component</u>	<u>Specification</u>
--------------------------	----------------------

Operating System	Any Operating System
FrontEnd	HTML, CSS, Javascript
Backend	PHP
Database	MySQL
Hosting server	XAMPP
Payment gateway	RazorPay

Setup Required To Run the Project with All Functionalities On Your System:

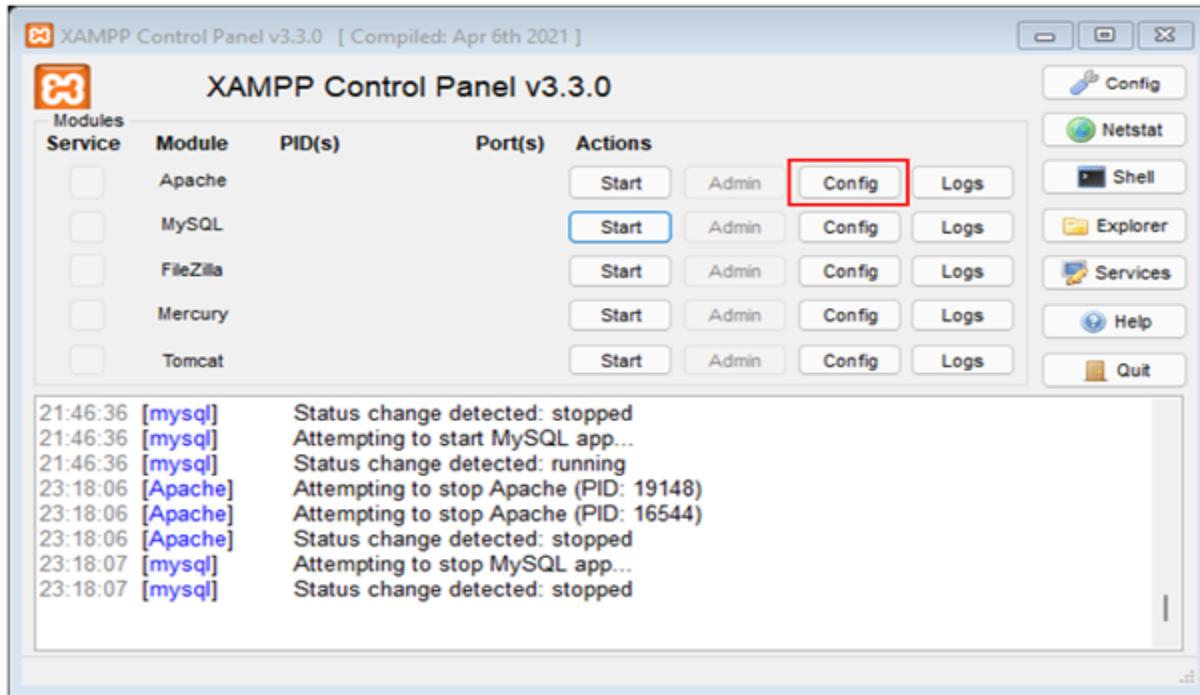
6.2 Install and Setup XAMPP

Download XAMPP from <https://www.apachefriends.org/download.html>

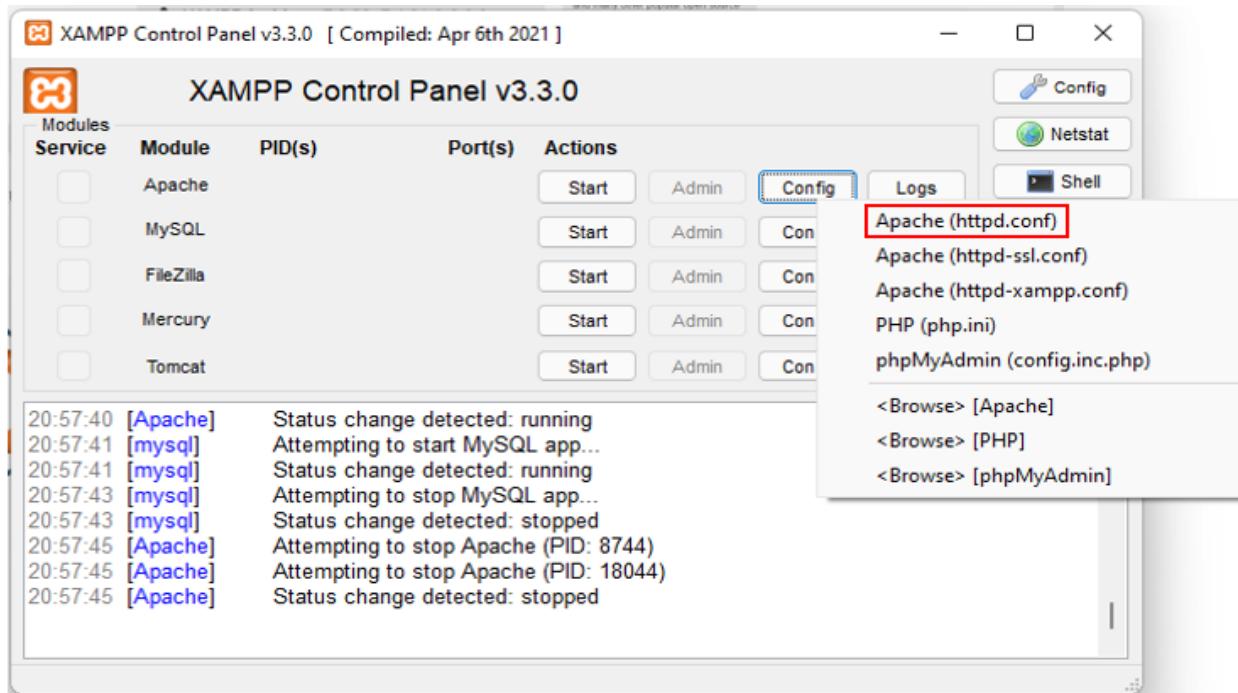


Install and setup XAMPP on your system

After Installation, Open the XAMPP Control Panel and click on the Apache config button (in red)



Select and open the Apache (httpd.conf) file



Find [DocumentRoot "] in the opened file

Search and pass the following values

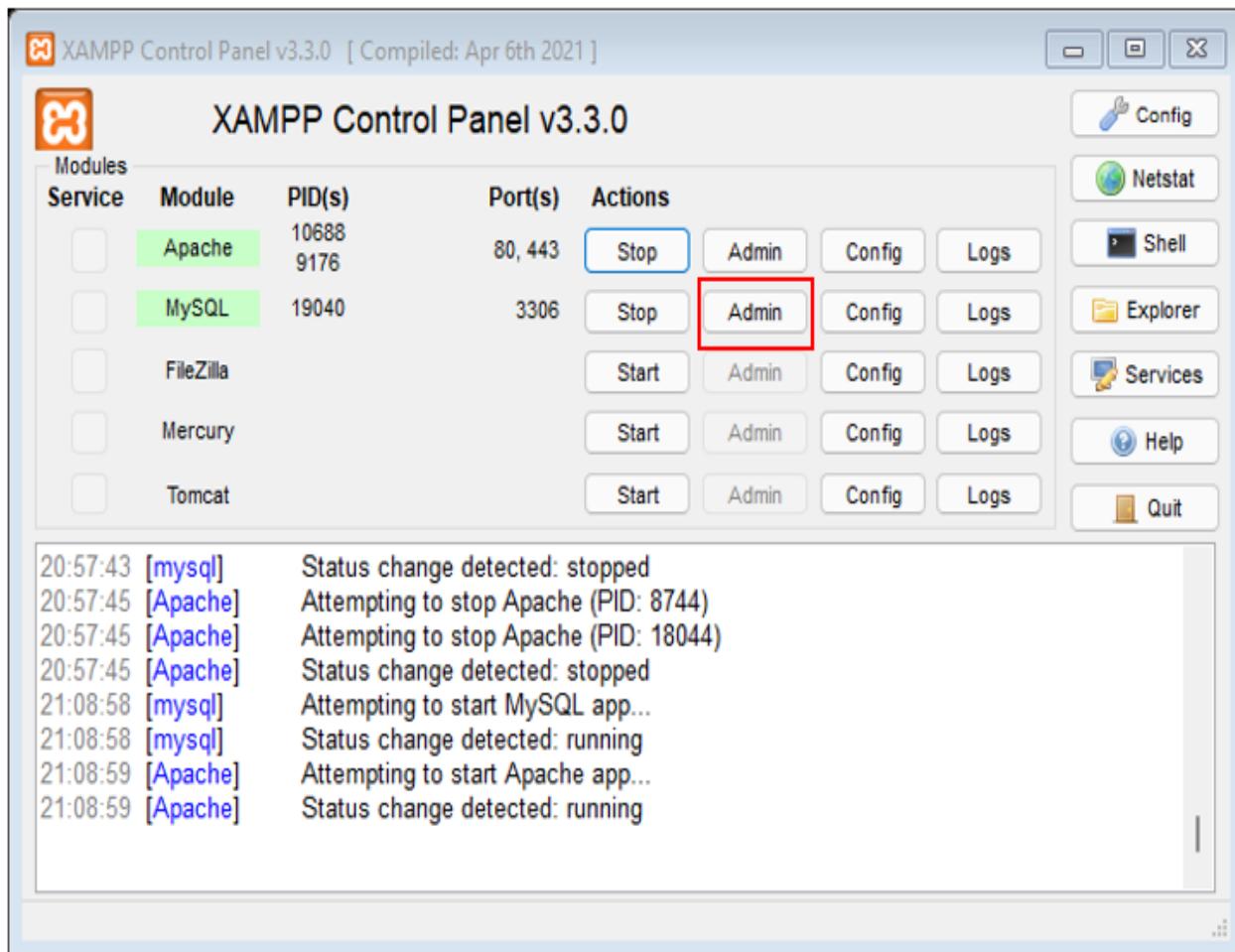
DocumentRoot "D:\Project\Project"

<Directory " D:\Project\Project ">

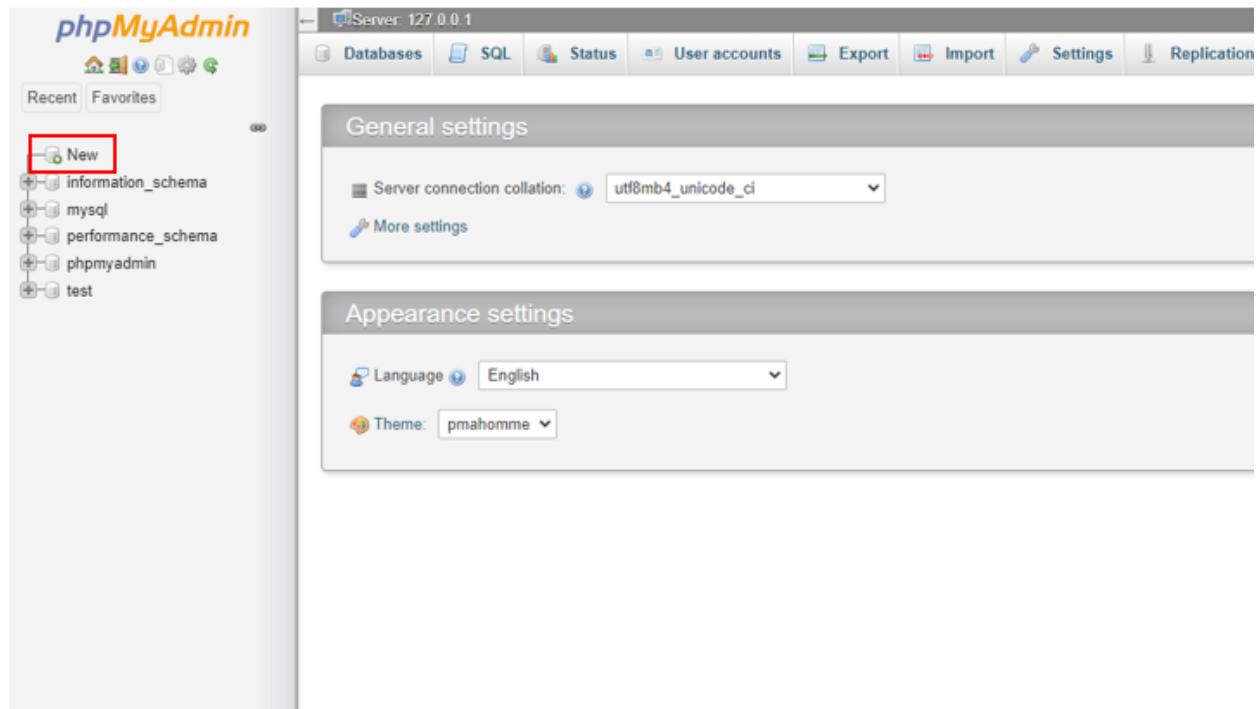
NOTE: (replace D:\Project\Project with the path of your project)

6.3 Setup MySQL Database

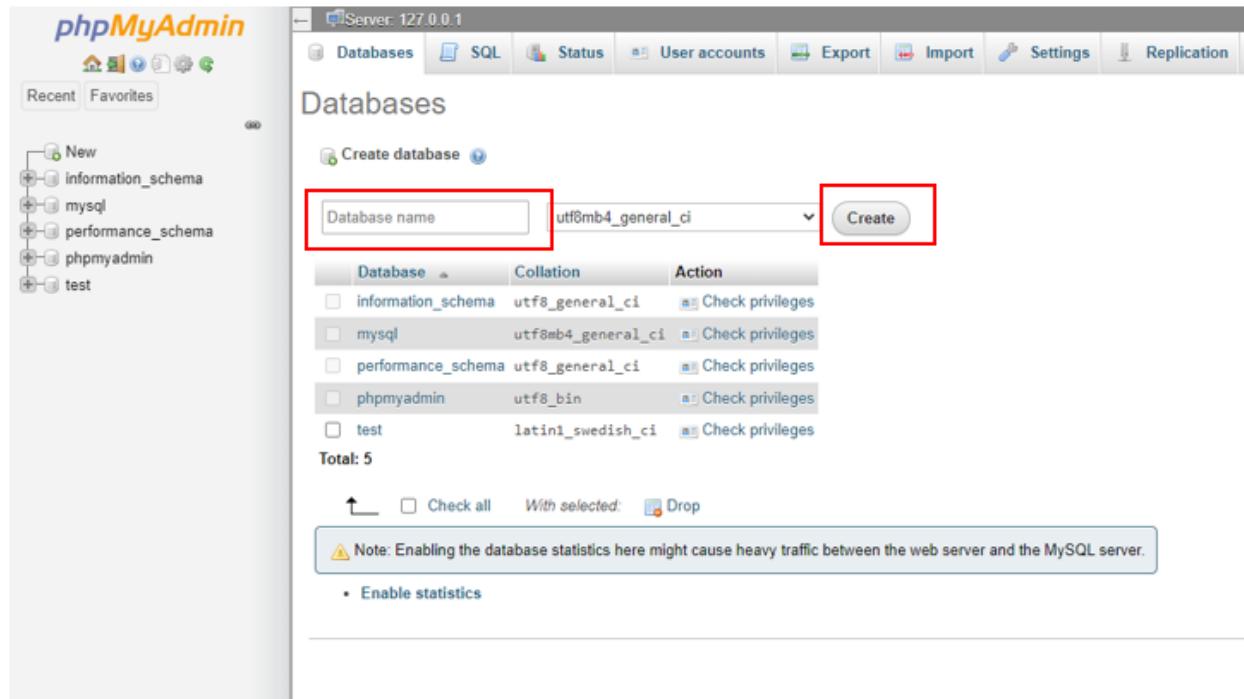
Click on the MySQL Admin button (in red) to open the MySQL admin setup page



Click on the new button (in red) present at the left side panel to create a new database

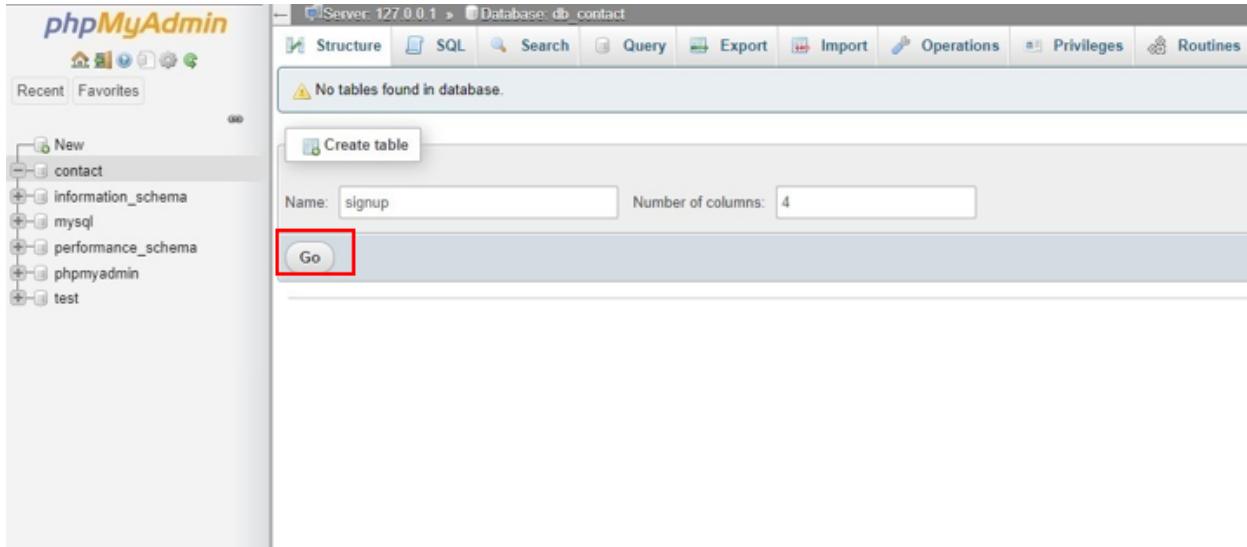


Enter the contact as the Database Name in the designated field (in red) and then click CREATE (in red)



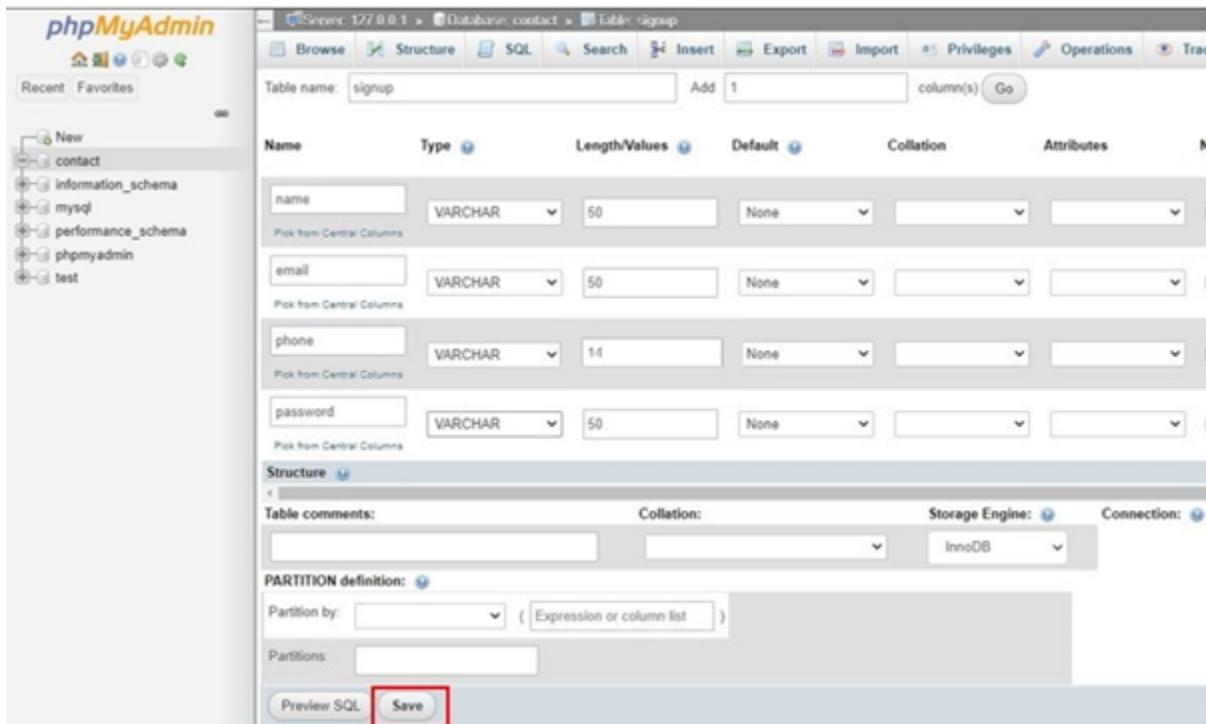
Then select the database ‘contact’ and enter the ‘table name’ as ‘signup’ and ‘number of columns’ as 4

After filling the values click on the Go button (in red) to create the table



Fill the table schema as seen in the screenshot below

Then click on save button (in red) to save the table structure

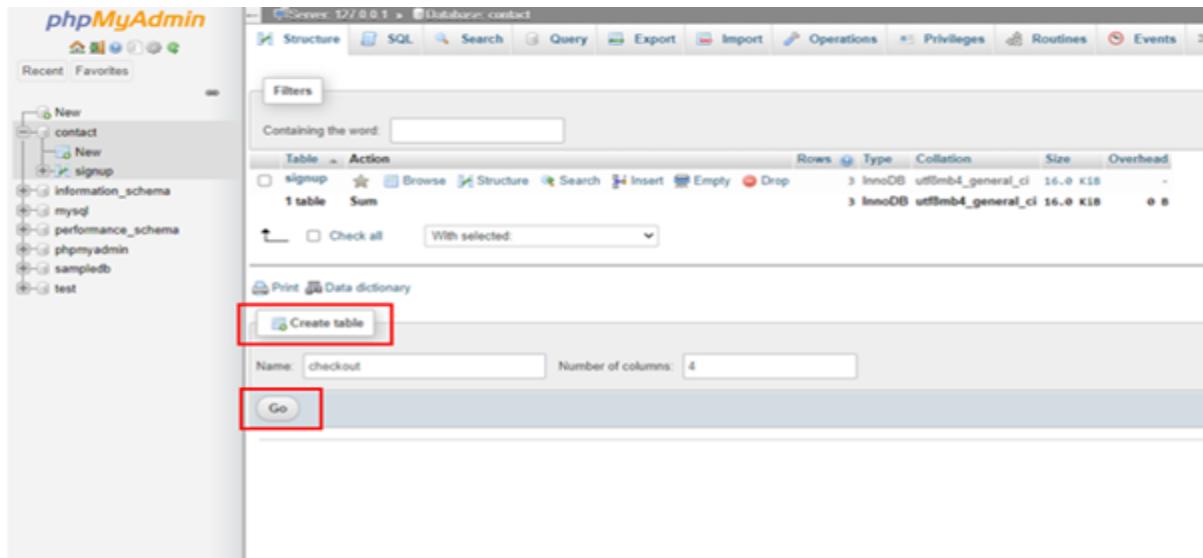


And for checking the database functionality just visit the signup page, fill the form and check values inserted in the signup table from the MySQL Admin page.

Select the database ‘contact’.

In the CREATE TABLE section (in red), enter the ‘table name’ as ‘checkout’ and ‘number of columns’ as 5

After filling the values click on the Go button (in red) to create the table



Fill the table schema as seen in the screenshot below

Then click on save button (in red) to save the table structure

The screenshot shows the phpMyAdmin interface for creating a new table named 'checkout'. The table structure is defined with the following fields:

- name**: VARCHAR(50)
- email**: VARCHAR(50)
- mobile**: VARCHAR(14)
- address**: VARCHAR(101)
- type**: VARCHAR(20)

At the bottom of the table structure section, there is a 'PARTITION definition:' section. Below it, there are buttons for 'Preview SQL' and 'Save'. The 'Save' button is highlighted with a red box.

6.4 Configure SMTP

Open the XAMPP Control Panel and click on the Apache config button (in red)

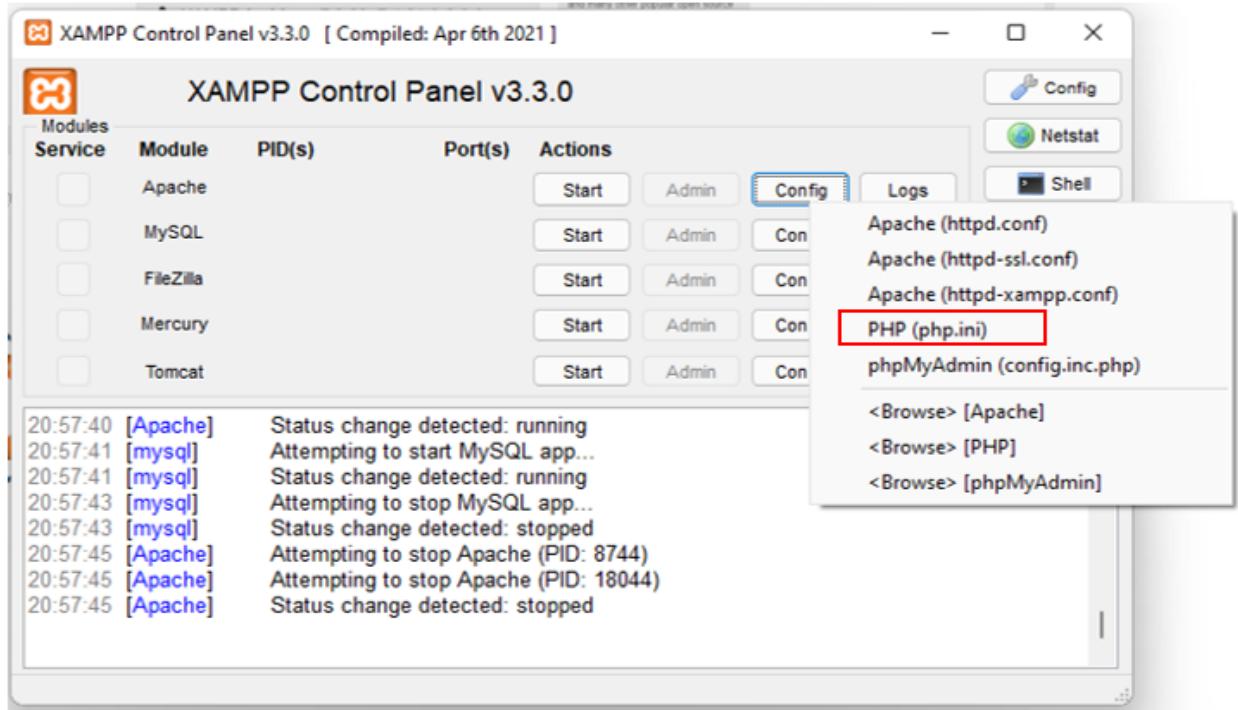
The screenshot shows the XAMPP Control Panel v3.3.0 interface. The Apache service row is selected, and its 'Config' button is highlighted with a red box. The control panel displays various services and their status. The status log window at the bottom shows the following log entries:

```

21:46:36 [mysql] Status change detected: stopped
21:46:36 [mysql] Attempting to start MySQL app...
21:46:36 [mysql] Status change detected: running
23:18:06 [Apache] Attempting to stop Apache (PID: 19148)
23:18:06 [Apache] Attempting to stop Apache (PID: 16544)
23:18:06 [Apache] Status change detected: stopped
23:18:07 [mysql] Attempting to stop MySQL app...
23:18:07 [mysql] Status change detected: stopped

```

Select and open the PHP (php.ini) file (in red)



Find [mail function] in the opened file

Search and pass the following values

SMTP=smtp.gmail.com

smtp_port=587

sendmail_from = <your email>@gmail.com

sendmail_path = "\"C:\XAMPP\sendmail\sendmail.exe\" -t"

NOTE: (Replace C:\XAMPP\ to your current XAMPP installation directory)

NOTE: (Ensure removing ; from the starting of all the above mentioned statements)

Now, go to C:\XAMPP\sendmail and open the sendmail.ini file.

Find [sendmail] in the opened file

Search and pass the following values

smtp_server=smtp.gmail.com

smtp_port=587 or 25 //use any of them

error_logfile=error.log

```

debug_logfile=debug.log
auth_username=<your email>@gmail.com
auth_password=<your password>
force_sender=<your email>@gmail.com (optional)

```

NOTE: (Replace C:\XAMPP\ to your current XAMPP installation directory)

NOTE: (Ensure removing ; from the starting of all the above mentioned statements)

NOTE: (Also ensure turning ON the ‘Less Secure Sign IN’ option in the google accounts security section)

NOTE: (Use a Gmail Email ID for this configuration as the SMTP used above is of gmail. If you wish to use some other service providers SMTP, then change the SMTP and smtp_port values accordingly)

NOTE: (Do not forget to replace the email address used here in the headers section of the PHP file where the PHP mail function is called)

7. Milestones

VERSION-1

- **START DATE ->** 16TH June 2021
- **END DATE ->** 29TH June 2021

VERSION-2

- **START DATE ->** 3rd July 2021
- **END DATE ->** 19TH July 2021

8. References

- [1] <https://www.youtube.com/watch?v=9EoYZIbR6uw>
- [2] <https://www.youtube.com/watch?v=vpAJ0s5S2t0>
- [3] <https://docs.woocommerce.com/document/minmax-quantities/>
- [4] https://www.youtube.com/watch?v=s7GyXQdAQ_Q
- [5] <https://www.consciousfood.com/>
- [6] https://www.w3schools.com/css/css_dropdowns.asp
- [7] http://www.vedantorganics.com/?gclid=CjwKCAjwi9-HBhACEiwAPzUhHLULPgMf6WVceRYRdOFMuIQZlzzs2PhnlDVxlUdxSSUm82AFW66JoRoCergQAvD_BwE
- [8] <https://himalayanorganicco.com/>
- [9] https://www.tutorialspoint.com/php/php_sending_emails.htm
- [10] https://www.w3schools.com/howto/howto_js_toggle_dark_mode.asp
- [11] <https://css-tricks.com/a-complete-guide-to-dark-mode-on-the-web/>

9. Code (GitHub Link)

https://github.com/hu1005/Project_P2.git