

DETAILED PROJECT REPORT

Grabon,,,

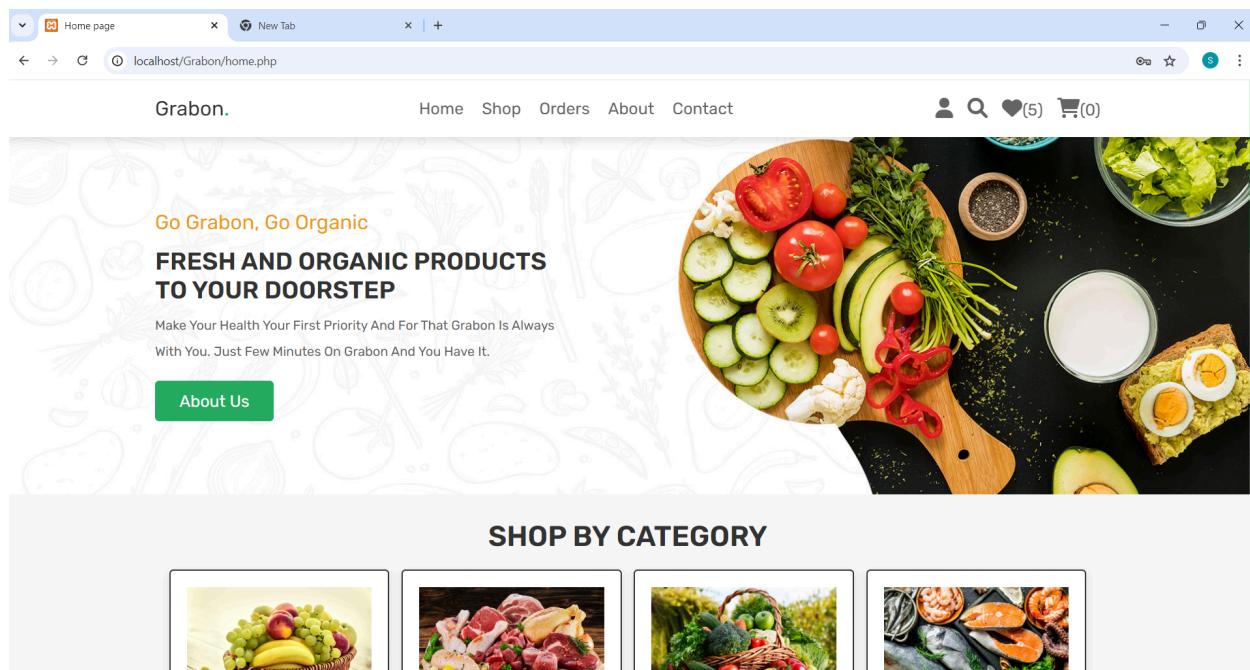
**SASHANK N
522502**

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INTRODUCTION :

In this report, we will discuss the building and implementation of a web based grocery store. Grabon. is built on a fundamental objective of providing all the daily essential foods such as fruits, vegetables, seafood and meat under one roof with just one click on your mobile phones. We shall discuss in detail the web technologies used in building this platform.



DATABASE CONSTRUCTION :

For the database construction for this website, I had acquired xampp. And using that I have built a mysql(RDBMS) database named grabon_db with host as localhost on phpmyadmin. The database has several tables namely cart, message, orders,

products, users and wishlist. And these tables further contain a structure having few more rows in them.

The screenshot shows the phpMyAdmin interface for the 'grabon_db' database. The left sidebar lists databases: 'New', 'grabon_db' (selected), 'New', 'cart', 'message', 'orders', 'products', 'users', 'wishlist', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', and 'test'. The main area displays the table structure with the following data:

Table	Action	Rows	Type	Collation	Size	Overhead
cart	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
message	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 Kib	-
orders	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 Kib	-
products	Browse Structure Search Insert Empty Drop	73	InnoDB	utf8mb4_general_ci	16.0 Kib	-
users	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 Kib	-
wishlist	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 Kib	-

Total: 6 tables Sum Rows: 87 Size: 96.0 Kib Overhead: 0 B

Below the table list, there are buttons for 'Check all' and 'With selected'. At the bottom, there is a 'Create new table' section with fields for 'Table name' (empty) and 'Number of columns' (4), and a 'Create' button.

And I have established a connection between the mysql database and the HTML,PHP code that is used to build this platform.

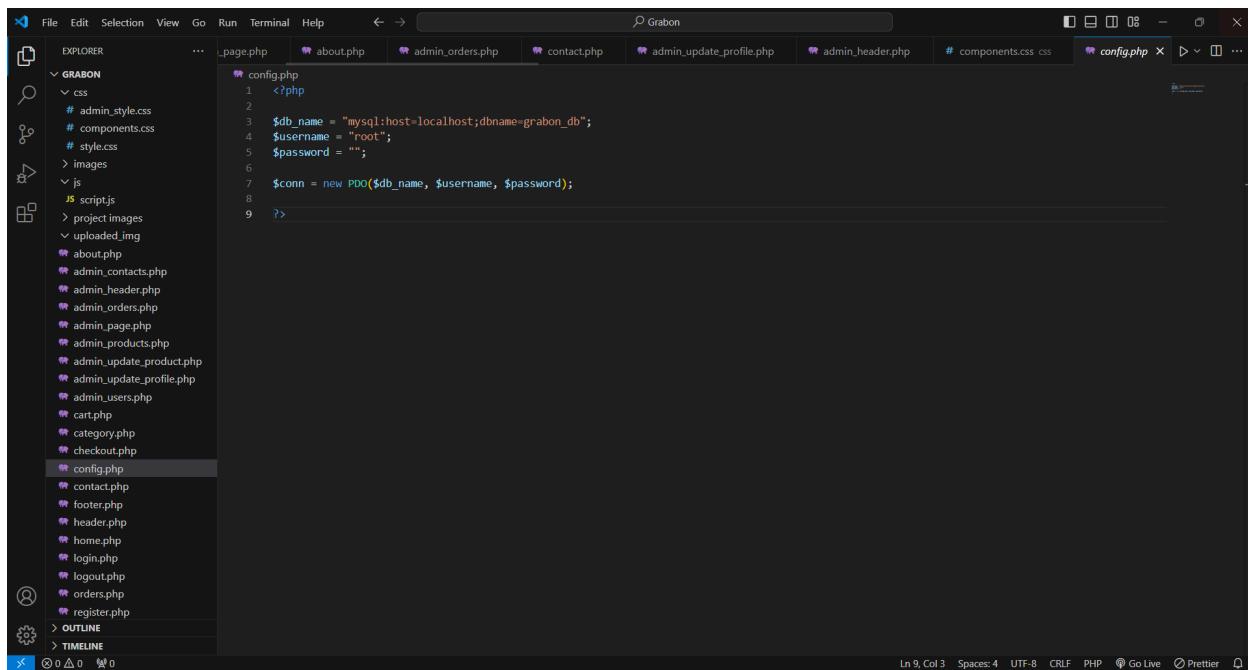
You can see in the below image about this connection. Let me explain it to you in detail as it is an important aspect :

The variable '\$db_name' contains the data source name(DSN) and it specifies the type of database which is mysql database and host where the database server is located, localhost in our case and the name of the database that you want to connect to which is grabon_db.

The variable '\$username' contains the username used to connect to the MySQL database. Here, 'root' is the default administrative username for MySQL.

The variable ‘\$password’ contains the password associated with the ‘\$username’. In our case it is an empty string which is common for a ‘root’ user.

And later you can see that a new PDO(PHP Data Objects) is created and assigned to the variable ‘\$conn’. Once the connection is successful, this PDO object(‘\$conn’) is used throughout the application to perform database operations like querying, inserting, updating and deleting data.



A screenshot of a code editor window titled 'Grabon'. The left sidebar shows a file tree with a 'GRABON' folder containing CSS, JS, and PHP files. The main editor area displays the following PHP code:

```
config.php
1 <?php
2
3 $db_name = "mysql:host=localhost;dbname=grabon_db";
4 $username = "root";
5 $password = "";
6
7 $conn = new PDO($db_name, $username, $password);
8
9 ?>
```

The status bar at the bottom indicates 'Ln 9, Col 3' and other file-related information.

Now we can dive deep into how the user-side and server-side development is done.

Front-end Development(User-side) :

The front-end development of Grabon. involves the creation of an effective and user-friendly interface for customers to browse products, write reviews as messages to the server, add items to

their shopping carts, proceed with the checkout process in brief whatever the user experiences during this website comes under the frontend development. The following web programming technologies were utilized for the front-end development: HTML5, CSS and JAVASCRIPT are utilized for the front-end development.

- HTML5 is used to build the structure of the webpage and to also organize the presentation of the webpage using various HTML elements.

```
(home.php
78
79  <!DOCTYPE html>
80  <html lang="en">
81  <head>
82      <meta charset="UTF-8">
83      <meta http-equiv="X-UA-Compatible" content="IE=edge">
84      <meta name="viewport" content="width=device-width, initial-scale=1.0">
85      <title>Home page</title>
86
87      <!-- font awesome cdn link -->
88      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css">
89
90      <!-- custom css file link -->
91      <link rel="stylesheet" href="css/style.css">
92
93  </head>
94  <body>
95
96      <?php include 'header.php'; ?>
97
98      <div class="home-bg">
99
100         <section class="home">
101
102             <div class="content">
103                 <span>Go Grabon, Go Organic</span>
104                 <h3>Fresh and Organic Products To Your Doorstep</h3>
105                 <p>Make Your Health Your First Priority And For That Grabon Is Always With You. Just Few Minutes On Grabon And You Have It.</p>
106                 <a href="about.php" class="btn">About Us</a>
107             </div>
108
109         </section>
110
111     </div>
112
113     <section class="home-category">
114
```

This is a small representation of the HTML elements used in the process.

- CSS was used to enhance the visual appearance and layout, positioning of Grabon. web pages, including styling elements, animations and transitions, defining responsive

design principles, and ensuring consistency across different devices. In a simple way CSS is used to completely change the look of the webpage and grab the attention of the user like GRABON. grabs the attraction of the customer.

Below is a small picture of the CSS style sheet with a few CSS properties which transforms the webpage into a very attractive and eye-grabbing one.

```
css > # style.css > {} @media (max-width:768px)
1   @import url('components.css');
2
3   .home-bg{
4     background: url(..images/home-bg.jpg) no-repeat;
5     background-size: cover;
6     background-position: center;
7   }
8
9   .home-bg .home{
10    display: flex;
11    align-items: center;
12    min-height: 60vh;
13  }
14
15  .home-bg .home .content{
16    width: 50rem;
17  }
18
19  .home-bg .home .content span{
20    color:var(--orange);
21    font-size: 2.5rem;
22  }
23
24  .home-bg .home .content h3{
25    font-size: 3rem;
26    text-transform: uppercase;
27    margin-top: 1.5rem;
28    color:var(--black);
29  }
30
31  .home-bg .home .content p{
32    font-size: 1.6rem;
33    padding:1rem 0;
34    line-height: 2;
35    color:var(--light-color);
36  }
37
```

As you can see that CSS styling is done separately in a different text file with the inclusion of the names of the elements of HTML5. And in the end this whole CSS file is induced into the HTML5 text file. You can see that in the image of HTML5. We can even write these properties in the HTML5 file(Inline and Internal CSS) itself

but to avoid clumsiness and to have a good clarity we write it in a separate text file(External CSS) and then link it in the HTML5 file.

- JAVASCRIPT provides user interaction, usability and responsive design for Grabon., it is used to manage the visibility and interaction of a navigation bar (navbar) and a user profile section on the webpage.

```
js script.js > ⚙️ onscroll
1 let navbar = document.querySelector('.header .flex .navbar');
2
3 document.querySelector('#menu-btn').onclick = () =>{
4     navbar.classList.toggle('active');
5     profile.classList.remove('active');
6 }
7
8 let profile = document.querySelector('.header .flex .profile');
9
10 document.querySelector('#user-btn').onclick = () =>{
11     profile.classList.toggle('active');
12     navbar.classList.remove('active');
13 }
14
15 window.onscroll = () =>{
16     profile.classList.remove('active');
17     navbar.classList.remove('active');
18 }
```

In short, this is the front-end part of Grabon.

BACK-END DEVELOPMENT(server-side) :

The back-end development of Grabon. involves server-side operations, database management, and processing customer requests, etc.

A server-side scripting language in our instance PHP, is used to handle user requests, communicate with the database, and generate dynamic web pages.

SQL queries were used to retrieve, sanitize and manipulate data efficiently.

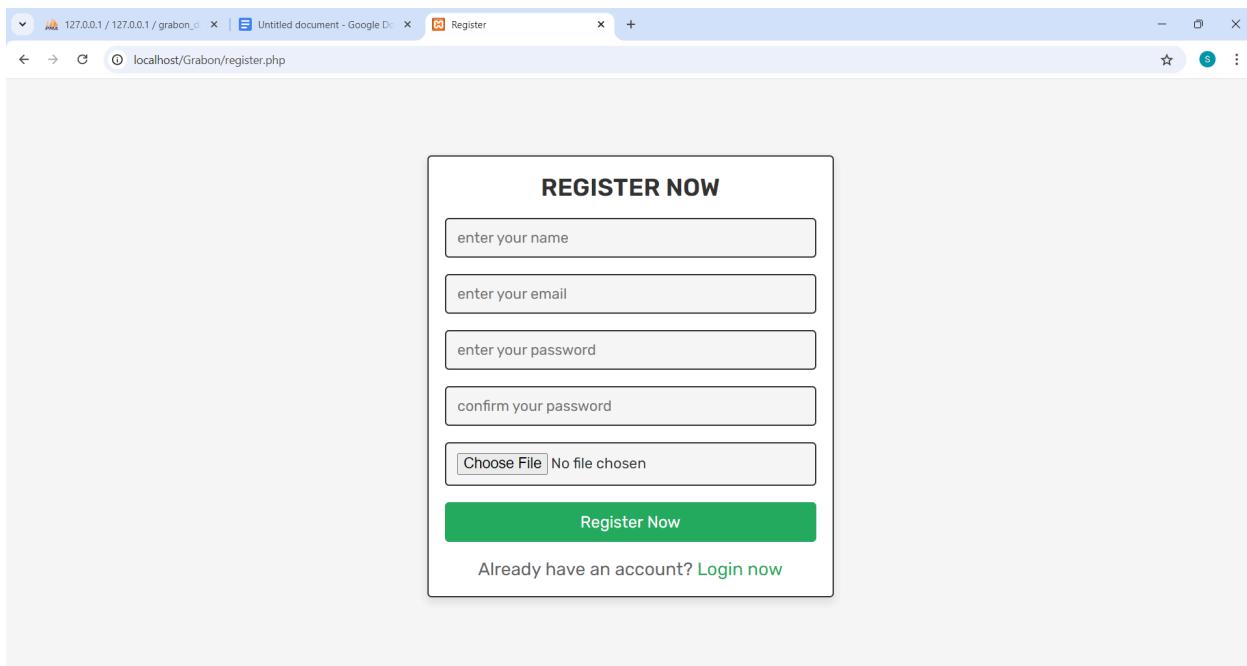
```
home.php
1 <?php
2
3 @include 'config.php';
4
5 session_start();
6
7 $user_id = $_SESSION['user_id'];
8
9 if(!isset($user_id)){
10 | header('location:login.php');
11 }
12
13 if(isset($_POST['add_to_wishlist'])){
14
15     $pid = $_POST['pid'];
16     $pid = filter_var($pid, FILTER_SANITIZE_STRING);
17     $p_name = $_POST['p_name'];
18     $p_name = filter_var($p_name, FILTER_SANITIZE_STRING);
19     $p_price = $_POST['p_price'];
20     $p_price = filter_var($p_price, FILTER_SANITIZE_STRING);
21     $p_image = $_POST['p_image'];
22     $p_image = filter_var($p_image, FILTER_SANITIZE_STRING);
23
24     $check_wishlist_numbers = $conn->prepare("SELECT * FROM `wishlist` WHERE name = ? AND user_id = ?");
25     $check_wishlist_numbers->execute([$p_name, $user_id]);
26
27     $check_cart_numbers = $conn->prepare("SELECT * FROM `cart` WHERE name = ? AND user_id = ?");
28     $check_cart_numbers->execute([$p_name, $user_id]);
29
30     if($check_wishlist_numbers->rowCount() > 0){
31         $message[] = 'already added to wishlist!';
32     }elseif($check_cart_numbers->rowCount() > 0){
33         $message[] = 'already added to cart!';
34     }else{
35         $insert_wishlist = $conn->prepare("INSERT INTO `wishlist`(user_id, pid, name, price, image) VALUES(?, ?, ?, ?, ?)");
36         $insert_wishlist->execute([$user_id, $pid, $p_name, $p_price, $p_image]);
37         $message[] = 'added to wishlist!';
38     }
39 }
```

USER REGISTRATION & LOGIN :

There is a registration page and a login page to provide secured access to Grabon..

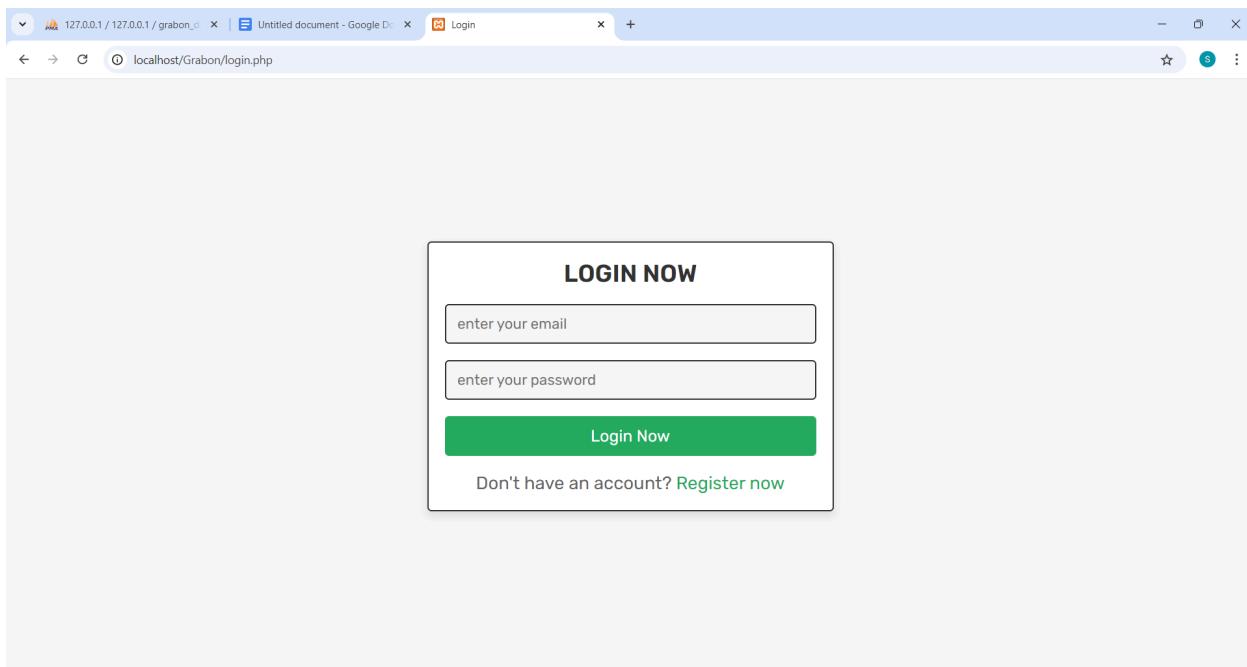
- When you are a new user you need to register your identity by providing the required details such as “name,email,password and image”. These provided details are safely stored in their respective rows of the database tables created and are accessible only to the admin of the webpage.

- Once you have registered yourself all of your data is safely stored and then you just need to login yourself into the website with your credentials. You don't need to register each and every time you visit the page.



A screenshot of a web browser showing the 'Register' page for a website called Grabon. The page has a light blue header with tabs for '127.0.0.1 / 127.0.0.1 / grabon_c', 'Untitled document - Google Doc', and 'Register'. Below the header, the URL 'localhost/Grabon/register.php' is visible. The main content is a form titled 'REGISTER NOW' enclosed in a white box. It contains five input fields: 'enter your name', 'enter your email', 'enter your password', 'confirm your password', and a file upload field 'Choose File' with the placeholder 'No file chosen'. At the bottom of the form is a green button labeled 'Register Now'. Below the button, a link says 'Already have an account? [Login now](#)'.

These are the register and login pages of Grabon.



A screenshot of a web browser showing the 'Login' page for the Grabon website. The browser interface is identical to the previous screenshot, with tabs for '127.0.0.1 / 127.0.0.1 / grabon_c', 'Untitled document - Google Doc', and 'Login'. The URL 'localhost/Grabon/login.php' is shown below the header. The main content is a form titled 'LOGIN NOW' enclosed in a white box. It contains two input fields: 'enter your email' and 'enter your password'. At the bottom of the form is a green button labeled 'Login Now'. Below the button, a link says 'Don't have an account? [Register now](#)'.

Here you can see the information of some of the users that registered themselves on Grabon. Is stored in the database.

The screenshot shows the phpMyAdmin interface for the 'grabon_db' database. The 'users' table is selected. The table has columns: id, name, email, password, user_type, and image. There are 12 rows of data:

	id	name	email	password	user_type	image
<input type="checkbox"/>	4	Sashank N	sashank9.neni@gmail.com	1fcfa600ea2878e25603e6dad37896b9	admin	IMG_20190114_103200.jpg
<input type="checkbox"/>	7	Rachel Green	rachelgreen@gmail.com	23463d2ae579c83c722ccc036491bbb6	user	rachel.jpg
<input type="checkbox"/>	8	Monica Geller	monicageller@gmail.com	01a52167f10d4cb4ec194da99562c0f	user	monica.jpg
<input type="checkbox"/>	9	Phoebe Buffay	phoebebuffay@gmail.com	274a610524d0f2d176524e757ab019d0	user	phoebe.jpg
<input type="checkbox"/>	10	Chandler Bing	chandlerbing@gmail.com	d5dd0fd12a194abdee523b2e5e3d07	user	chandler.jpg
<input type="checkbox"/>	11	Ross Geller	rossgeller@gmail.com	eec70852b721bb685b628f1427df0fa9	user	ross.jpg
<input type="checkbox"/>	12	Joey Tribbiani	joeytribbiani@gmail.com	ad85c7c509772a60ea788350f35f90f8	user	joey.jpg

DIFFERENT CONTENTS OF GRABON

As you can see in the first image in this report you can see the header of the webpage and in that you have many different options such as Home, Shop, Orders, About, Contact and also the user profile, search bar, wishlist and the cart. Let's take a short look at each option.

SHOP BY CATEGORY

For the comfort & convenience of the user, the products on Grabon. have been divided into four categories. If you click on

shop option in the header it redirects you to shop page where you can find these respective categories :

- VEGETABLES
- FRUITS
- MEAT
- FISH

All the vegetables are sorted and categorized into the vegetables category and same goes for the remaining categories. So that users can have smooth and convenient shopping.

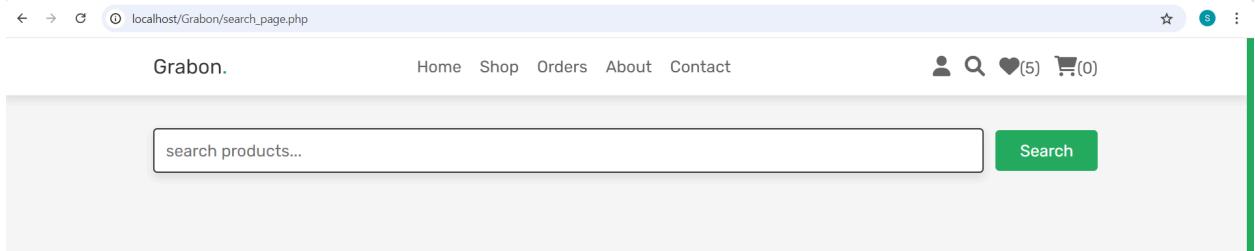
Users can just click on what category they want and can go through all the products in that category.

The screenshot shows the Grabon website's navigation bar at the top, featuring links for Home, Shop, Orders, About, and Contact, along with user icons for profile, search, and cart (showing 5 items). Below the navigation is a section titled "SHOP BY CATEGORY" containing four categories: Fruits, Meat, Vegetables, and Fish, each with a representative image and a green call-to-action button.

Category	Image Description	Description Text	Call-to-Action
Fruits	A basket filled with various fruits like grapes, apples, and bananas.	We produce a wide range of varieties not only seasonal one's but also other fruits.	Fruits
MEAT	A variety of raw meat including chicken, beef, and pork.	The freshness and quality of the meat is of highest level.	Meat
VEGETABLES	A basket overflowing with fresh vegetables like carrots, bell peppers, and leafy greens.	The vegetables we produce are of high and organic and nutritious value.	Vegetables
FISH	A selection of different types of fish fillets and seafood.	The fish we deliver is directly imported from the seaside small towns everyday.	Fish

SEARCH BAR

To make things much easier and to save a lot of time if you are purchasing only a few products, you can just search the product with the help of search bar on the top right corner of the webpage. It directly takes you to the product you want to purchase.

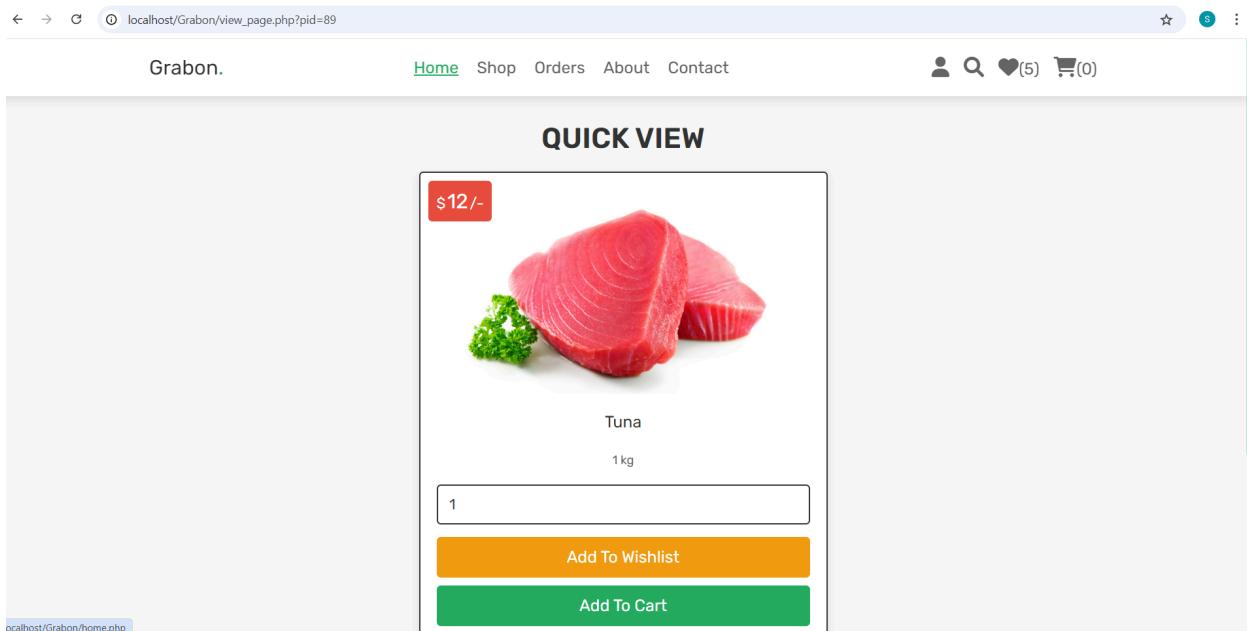


VIEWING PRODUCTS

When you search for a product of your choice you can just see the product's image and the price but not much information about it is visible. To view more info you need to click on the view button in the shape of an eye symbol on the top right corner of the product display.



And once you click that button an enlarged version of that product with few more details(such as nett weight) of that product are displayed.



CART & WISHLIST

As usual user gets to choose the products he/she likes and then they add it to the cart if they wanna purchase it or they'll add it to the wishlist if they want to purchase it in the coming days(future purpose) and so for that we have "Add to Wishlist" and "Add to cart" buttons along with the product and once they are used the product gets stored in the respective field and you can view them by clicking the "cart" & "wishlist" buttons on the top right corner of the webpage. If you open the "wishlist" or "cart" you can find few options such as "continue shopping" and "delete all". These two options are common in both the sections but you'll find an extra option in the cart section namely "proceed to checkout" which takes you to checkout page.

Screenshot of the Grabon Shopping Cart page (localhost/Grabon/cart.php). The page displays three items in the cart:

- Pork Steak: \$6/-
- Salmon: \$12/-
- Tuna: \$12/-

The total grand total is \$30/-. Action buttons include Continue Shopping, Delete All, and Proceed To Checkout.

Not only that but at any time if you don't want a product you have an option of removing it from the cart or wishlist by clicking on the "x" on the top left corner of the product.

Screenshot of the Grabon Wishlist page (localhost/Grabon/wishlist.php). The page displays three items in the wishlist:

- Chickpeas: \$3/-
- Banana: \$2/-
- Green Apples: \$3/-

The total grand total is \$8/-. Action buttons include Continue Shopping, Delete All, and Add To Cart.

CHECKOUT AND ORDERS

Once you are done with the shopping you can click on proceed to checkout and then the checkout page opens up and you can see your orders list there and along with that you can also see what details to be filled for the delivery of your products. You need to fill the respective fields and then your order is submitted. The admin receives your order and then processes it.

The image displays two screenshots of a web application interface. The top screenshot shows a shopping cart summary with various items and their prices. The bottom screenshot shows a detailed order placement form with fields for personal information and delivery address.

Top Screenshot: Shopping Cart Summary

Grabon. Home Shop Orders About Contact 👤🔍❤️(0) 🛒(18)

Chicken breast piece (\$8/- x 1)	Beef (\$8/- x 1)	A5 wagyu steak (\$25/- x 1)	Salmon (\$12/- x 1)	
Squid Rings (\$10/- x 1)	White Onions (\$1/- x 1)	Lemons (\$2/- x 1)	Garlic (\$3/- x 1)	
Broccoli (\$2/- x 1)	Lettuce (\$3/- x 1)	Cucumber (\$3/- x 1)	Leek (\$4/- x 1)	Tomato (\$2/- x 1)
Avocado (\$4/- x 1)	Blueberries (\$6/- x 1)	Dragon Fruit (\$3/- x 1)	Papaya (\$3/- x 1)	
Pineapple (\$3/- x 1)				
grand total : \$102/-				

Bottom Screenshot: Order Placement Form

Grabon. Home Shop Orders About Contact 👤🔍❤️(0) 🛒(18)

PLACE YOUR ORDER

your name : enter your name	your number : enter your number
your email : enter your email	payment method : cash on delivery
address line 01 : e.g. flat number	address line 02 : e.g. street name
city : e.g. Los Angeles	state : e.g. California
country : e.g. United States of America	pin code : e.g. 123456

Place Order

Once you are done with the checkout you can see your order by clicking on the orders option on the page header and you'll be redirected to the orders page.

The screenshot shows a web browser window with the URL [127.0.0.1 / grabon_c](http://127.0.0.1/grabon_c/index.php?controller=orders&action=view&id=1) in the address bar. The page title is "Orders". The main content area is titled "PLACED ORDERS" and contains the following information:

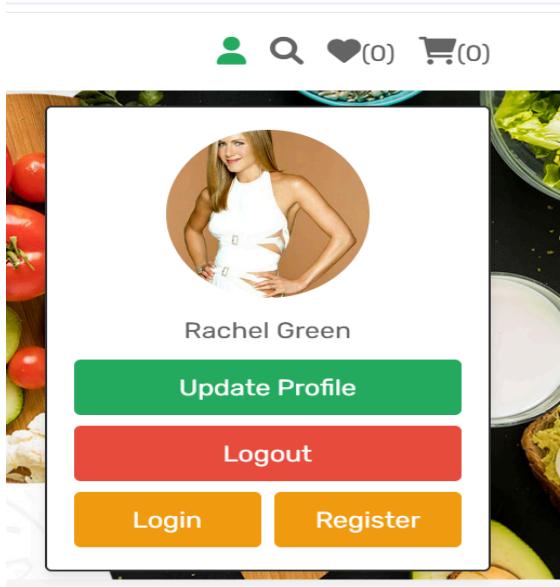
placed on : 30-Aug-2024
name : Rachel Green
number : 19534216223
email : rachelgreen@gmail.com
address : flat no. Empire State Building Manhattan New York New York United States of America - 113256
payment method : credit card
your orders : , Chicken breast piece (1), Beef (1), A5 wagyu steak (1), Salmon (1), Squid Rings (1), White Onions (1), Lemons (1), Garlic (1), Broccoli (1), Lettuce (1), Cucumber (1), Leek (1), Tomato (1), Avocado (1), Blueberries (1), Dragon Fruit (1), Papaya (1), Pineapple (1)
total price : \$102/-
payment status : pending

At the bottom of the page, there are four navigation links: "QUICK LINKS", "EXTRA LINKS", "CONTACT INFO", and "FOLLOW US".

USER PROFILE AND UPDATING IT

Once you login to the website you can see a profile icon in the header of the page and if you click that you can see your picture and also a few options along with that such as update profile, logout, login and register. As we well know about logout, login and register so let's take a look at the profile update.

Once you select the update profile button it redirects you to the profile update page where you change your name or picture or password and then it updates your profile and you can see those details in the image below.



A screenshot of the "UPDATE PROFILE" form. It features a large circular profile picture of the same woman. The form has several input fields: "username :" with "Rachel Green", "old password :" with "enter previous password", "email :" with "rachelgreen@gmail.com", "new password :" with "enter new password", "update pic :" with a file input field showing "Choose File No file chosen", and "confirm password :" with "confirm new password". At the bottom are two buttons: a green "Update Profile" and an orange "Go Back". The header includes the brand name "Grabon.", navigation links for Home, Shop, Orders, About, Contact, and the same top navigation icons as the profile screen.

CONTACT AND ABOUT

Same as the orders, profile, cart and wishlist you can even find the contact section in the header of the page. In this section you can write to the admin regarding any issues/complaints you have or your reviews that needs to be posted on the site etc. So basically it's your way of connecting with the admin.

GET IN TOUCH

Send Message

QUICK LINKS

EXTRA LINKS

CONTACT INFO

FOLLOW US

And along with that you can also see the about page in which you can know more about us and also can find some reviews of the customers who had ordered from Grabon..

CLIENT REVIEWS



Could it(Grabon) be anymore amazinggggg....



Joey Tribbiani



Well Grabon is a high standard website for purchasing organic farm fresh products that helped me maintain my beauty.



Rachel Green



Since I like cooking, I like also experimenting with many dishes and for that i always go grabon for the amazing fresh and quality meat.



Monica Geller



Grabon couldn't be more better than my



OH MY GOD! OH MY GOD! Grabon has taken



When I was on a break I had been on Grabon

Grabon.
Home Shop Orders About Contact

 (0)
 (0)

WHY CHOOSE US ?

- Quality control before delivering product is a must
- We are working with local farmer
- Only deliver a fresh fruit and veggies

WHY CHOOSE US?
WHAT DO WE PROVIDE?

All of our products are 99.9% pure and organic. We directly purchase our product from the farmers and we bring them to your doorstep and all this happens with just one click on your mobile phone. Adding to that we provide best service at a very low price and with high quality.

All organic food products under one roof. We provide organic fruits and vegetables and not only that we also provide good quality meat and sea food as well. The freshness of the meat is the best thing we promise to you.

[Contact Us](#)
[Our Shop](#)

localhost/Grabon/admin_page.php

ADMIN PANEL :

The private page to which only the admin can have access and this page contains several information about the number of accounts, orders placed by customers, products that need to added or deleted from Grabon. pending orders, completed orders and message from the customer.

AdminPanel
Home Products Orders Users Messages

DASHBOARD

\$132/-

total pending

See Orders

\$102/-

completed orders

See Orders

2

orders placed

See Orders

73

products added

See Products

6

total users

See Accounts

1

total admins

See Accounts

7

total accounts

See Accounts

1

total messages

See Messages

The products are added by the admin through this products option in the admin page. Once you click on “See Products” you have a table to be filled with what product you want to add with details of the project. In this way you can add or delete the products you want.

The screenshot shows a web-based administration interface. At the top left, it says "AdminPanel". Along the top navigation bar are links for "Home", "Products", "Orders", "Users", and "Messages". On the far right of the top bar is a user profile icon. Below the navigation, the main content area has a title "ADD NEW PRODUCT". Inside this title, there are four input fields arranged in a grid-like fashion: "enter product name" and "enter product price" in the top row, "Select Category" (with a dropdown arrow) and "Choose File No file chosen" in the second row, and a large "enter product details" text area in the third row. At the bottom of this form is a green button labeled "Add Product". Below the form, the text "PRODUCTS ADDED" is displayed. At the very bottom left of the page, the URL "localhost/Grabon/admin_page.php" is visible.

CONCLUSION :

Grabon, an online grocery store, leverages a range of web programming technologies to provide customers with a seamless and user-friendly platform for purchasing high-quality, organic food products with a single tap on their mobile devices. Key features such as user registration, a comprehensive product catalog, communication with the administration, and a convenient shopping cart all contribute to a streamlined shopping experience. Future enhancements, including the development of a mobile application and personalized product recommendations, would

further elevate the functionality and appeal of Grabon, making it an even more attractive choice for consumers.