

Group work:

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INTRODUCTION

Project Overview:

The “Sweet Retreat” website specializes in the creation of freshly baked goods that can be conveniently ordered. Our selection includes a variety of treats such as cakes, pastries, cupcakes, cookies, donuts, waffles, bread, and more. To enhance your celebrations, we also offer a range of festive accessories to add a lively touch to your special moments.

Project Scope:

The “Sweet Retreat” website is a comprehensive platform that not only offers a wide variety of freshly baked goods but also aims to create a delightful and personalized experience for customers, whether they're ordering for themselves or planning a memorable celebration.

Development process

1- Planning and design

The project began with a thorough planning phase, where the objectives, user interface designs, and functionalities were outlined. The visualizing of the website interfaces and services happened here, as well as the outlines of the idea itself.

2- Backend development

Server-side logic was implemented using PHP. These scripts handle data processing, user account & session, and interactions with the database specifically regarding the cart and user info ensuring that the application could serve dynamic content based on user requests and interactions.

3- Database with MySQL

The THEschema.sql file designed in mySQL environment contains a structured db schema, crucial for storing and managing application data efficiently. This step involved defining tables that are (carts & users), variables and constraints.

KEY POINTS

1- Cookie:

Cookie is a small file of letters and numbers that is downloaded onto your computer when you visit a website.

2- Session:

Session is a series of contiguous actions by a visitor on an individual website within a given time frame.

Interfaces:



Let's Go!!

USERNAME*

PASSWORD*

Don't have an account?
[Click here to sign up!](#)



Let's Go!!

NAME

EMAIL*

MOBILE NO.*

USERNAME*

PASSWORD*

Already have an account?
[Click here to login!](#)

Interfaces:

The screenshot shows the homepage of a website for "Sweet RETREAT". The top navigation bar includes links for Home, Items (with a dropdown arrow), Our Kitchen, Props, Gallery, and FAQ. A search bar and a shopping cart icon (0 items) are also present. On the left, a sidebar menu lists categories: Cakes, Pastries, Cupcakes, Cookies, Donuts, Waffles, Breads, and Others. The main content area features a large, circular logo for "Sweet RETREAT" with a floral wreath and a tiered cake illustration. Below the logo is a blurred image of a breakfast spread, including waffles and coffee. A small icon of a notepad and pen is located in the bottom right corner of the content area.

The screenshot shows a modal window titled "Your Cart" from the "Sweet RETREAT" website. The cart contains one item: "Love Donut" at a price of 99, with a quantity of 1. The total price is listed as 99. There is a "Remove" button next to the item details and a "Close" and "Checkout" button at the bottom right of the modal. The background of the modal is white, while the rest of the page has a dark teal header and footer.

Item Name	Price	Quantity	Total Price	Action
Love Donut	99	1	99	Remove

Total Price : 99

[Close](#) [Checkout](#)

Interfaces:



FREQUENTLY ASKED QUESTIONS!

What payment methods do you accept?

How many days prior to the event should I place an order?

Do you make eggless cakes?

Home Items ▾ Our Kitchen Props Gallery FAQ

Search 🔍 👤 🛒(0)

GALLERY

SPECIALS

- A collection of images of all our special menus (limited period items)!



Interfaces:

Waffles

"The weekends are for waffles and best friends."



Wow Waffle



Vegan Belgian



Code:

```
1 <?php
2
3 session_start();
4 // remove all session variables
5 session_unset();
6 // destroy the session
7 session_destroy();
8 // delete cookie
9 setcookie("name", "", time() - 3600, "/");
10
11 header('Location: Homepage.html');
12
```

The index.php Its job is to run the code first , and delete any existening cookie or session informations and take us to the home pge.html

```
Pages.php
1 <?php
2
3 session_start();
4 if (isset($_SESSION["username"])) {
5     header('Location: account.php');
6 } else {
7     header('Location: signup page.html');
8 }
9
10
11 ?>
```

The pages.php is triggered when the user presses the account icon at the top right of the screen. If the user is logged in to the session it will take them to the account page. If not it will open the sign up page.

```
logout.php
1 <?php
2 session_start();
3
4
5 // remove all session variables
6 session_unset();
7 // destroy the session
8 session_destroy();
9
10 header('Location: homepage.html');
11 exit;
12 ?>
```

The Logout.php is triggered when press the login button in the account page, it removes all the session variable and kill the session.

Code:

```
1 <?php
2 // getting data from form
3 $Fname = $_POST["name"];
4 $userEmail = $_POST["email"];
5 $mobileNo = $_POST["mobile"];
6 $userName = $_POST["username"];
7 $Pass = $_POST["password"];
8
9 // Validate input fields
10 if (empty($Fname) || empty($userEmail) || empty($mobileNo) || empty($userName) || empty($Pass)) {
11     echo "<script>alert('Please fill in all fields.');" . window.history.back();</script>";
12     exit;
13 }
14
15 // Validate email format
16 if (!filter_var($userEmail, FILTER_VALIDATE_EMAIL)) {
17     echo "<script>alert('Invalid email format.');" . window.history.back();</script>";
18     exit;
19 }
20
21 // Validate mobile number format (assuming 10 digits without any special characters)
22 if (!preg_match('/^\d{10}$/', $mobileNo)) {
23     echo "<script>alert('Invalid mobile number format. Please enter 10 digits.');" . window.history.back();</script>";
24     exit;
25 }
26
27 // Validate password format
28 if (strlen($Pass) < 8 || !preg_match("/^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).+$/", $Pass)) {
29     echo "<script>alert('Password must be at least 8 characters long and contain at least one uppercase letter, one lowercase letter, and one digit.');" . window.history.back();</script>";
30     exit;
31 }
32
33 // connecting to database
34 $link = mysqli_connect("localhost", "root", "", "DB");
35
36 // check connection
37 if ($link === false) {
38     die("ERROR: Could not connect. " . mysqli_connect_error());
39 }
40
41 // Check if the email already exists in the database
42 $sql = "SELECT userID FROM users WHERE userEmail = ?";
43 $stmt = mysqli_prepare($link, $sql);
44 mysqli_stmt_bind_param($stmt, "s", $userEmail);
45 mysqli_stmt_execute($stmt);
46 mysqli_stmt_store_result($stmt);
47
48 if (mysqli_stmt_num_rows($stmt) > 0) {
49     // Email already exists
50     echo "<script>alert('Email already exists. Please use a different email.');" . window.history.back();</script>";
51     exit;
52 }
53
54 // Close statement
55 mysqli_stmt_close($stmt);
56
57 // Prepare a select query to check if the username already exists
58 $sql = "SELECT userID FROM users WHERE userName = ?";
59 $stmt = mysqli_prepare($link, $sql);
60 mysqli_stmt_bind_param($stmt, "s", $userName);
61 mysqli_stmt_execute($stmt);
62 mysqli_stmt_store_result($stmt);
63
64 if (mysqli_stmt_num_rows($stmt) > 0) {
65     // Username already exists
66     echo "<script>alert('Username already exists.');" . window.history.back();</script>";
67     exit;
68 }
69
70 // Close statement
71 mysqli_stmt_close($stmt);
72
73 // prepare an insert query
74 $sql = "INSERT INTO users (fName, userEmail, mobileNo, userName, Pass) VALUES (?, ?, ?, ?, ?)";
75
76 // Prepare the statement
77 $stmt = mysqli_prepare($link, $sql);
78
79 // Bind parameters
80 mysqli_stmt_bind_param($stmt, "sssss", $Fname, $userEmail, $mobileNo, $userName, $Pass);
81
82 // execute the statement
83 if (mysqli_stmt_execute($stmt)) {
84
85     // session
86     session_start();
87     $_SESSION["email"] = $userEmail;
88     $_SESSION["mobile"] = $mobileNo;
89     $_SESSION["username"] = $userName;
90
91     // close connection
92     mysqli_close($link);
93
94     // go to home page
95     header('Location: Homepage.html');
96 } else {
97     echo "<script>alert('Error: Could not insert data.');" . window.history.back();</script>";
98 }
99
100 // Close statement
101 mysqli_stmt_close($stmt);
```

The signUpDatabase.php, checks whether the information provided by the user already exists in the database?

- If yes it will display a warning message
- If not it will take them and store them in the DB named “srDB”, and store the information in the session.

Also checks and validates the users inputs

Code:

```
1 <?php
2 // Include necessary files
3 session_start();
4
5 // Create connection to the database
6 $link = mysqli_connect("localhost", "root", "", "DB");
7
8 // Check connection
9 if ($link === false) {
10     die("ERROR: Could not connect. " . mysqli_connect_error());
11 }
12
13 // Check if the form was submitted and the delete_account button was clicked
14 if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["delete_account"])) {
15     // Get the user's email from session
16     $userEmail = $_SESSION["email"];
17     // SQL to delete user account
18     $sql = "DELETE FROM USERS WHERE userEmail = '$userEmail'";
19
20     // Attempt to execute the query
21     if (mysqli_query($link, $sql)) {
22         // Redirect to login page
23         header("Location: login.php");
24         exit();
25     } else {
26         // Error deleting account
27         echo "Error deleting account. Please try again later.";
28     }
29 }
30
31 // Close connection
32 mysqli_close($link);
33 ?>
```

The Login.php, to log the user into his\her account on the website, it will retrieve the information from the database and compare them to find a match for the entered information. It will also start a session and take us to the home page.html.

Code:

```
checkout.php
1 <?php
2 session_start();
3 if (!isset($_SESSION["username"])) {
4     header('Location: signup_page.html');
5 }
6 ?>
7 <!DOCTYPE html>
8 <html lang="en">
9
10 <head>
11
12     <head>
13         <title>Checkout</title>
14         <meta charset="UTF-8">
15         <meta name="viewport" content="width=device-width, initial-scale=1.0">
16         <link rel="shortcut icon" href="favicon.ico" type="image/x-icon">
17         <script src="https://kit.fontawesome.com/815d5311a8.js" crossorigin="anonymous"></script>
18         <link rel="preconnect" href="https://fonts.gstatic.com">
19         <link href="https://fonts.googleapis.com/css2?family=Parisienne&display=swap" rel="stylesheet">
20         <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
21         <script src="https://code.jquery.com/jquery-3.6.0.min.js" integrity="sha256-/xUj+3OJU5yExlq6GSYSHk7tPXikynS7ogEvDej/m4=" crossorigin="anonymous"></script>
22         <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
23         <script src="mycart.js"></script>
24         <script src="myscript.js"></script>
25     </head>
26
27     <script>
28         function myFunction() {
29             var x = document.getElementById("mynavTop");
30             if (x.className === "navtop") {
31                 x.className += " responsive";
32             } else {
33                 x.className = "navtop";
34             }
35         }
36     </script>
```

The checkout.php contains the user session info, and the access to the checkout button, if the checkout is pressed it will direct us to the save_cart.php.

```
save_cart.php
1 <?php
2 session_start();
3 if (!isset($_POST["cart"])) {
4     http_response_code(400); // Bad Request
5     exit("Cart data is missing.");
6 }
7
8 $cart = $_POST["cart"];
9 $address = $_POST["address"];
10 $username = $_SESSION["username"];
11
12
13 $link = mysqli_connect("localhost", "root", "SunnyBunny05000", "srdb");
14 $sql = "SELECT userID FROM users WHERE userName = '$username'";
15
16 // Execute the query
17 $result = mysqli_query($link, $sql);
18 $row = mysqli_fetch_assoc($result);
19 $userID = $row["userID"];
20 mysqli_free_result($result);
21
22 $sql = "INSERT INTO CARTS (userID, orders, address) VALUES ('$userID', '$cart', '$address')";
23
24 if (mysqli_query($link, $sql)) {
25     // Cart data saved successfully
26     echo "Cart data saved to the database.";
27 }
28 // Close database connection
29 mysqli_close($link);
30
31 header('Location: Homepage.html');
32
33
34 ?>
```

The save_cart.php is activated when “order now” is pressed. Its job is to save the cart information also the person putting the order forward from the database.

Code:

```
1 <?php
2 // Include necessary files
3 session_start();
4
5 // Create connection to the database
6 $link = mysqli_connect("localhost", "root", "", "DB");
7
8 // Check connection
9 if ($link === false) {
10     die("ERROR: Could not connect. " . mysqli_connect_error());
11 }
12
13 // Check if the form was submitted and the delete_account button was clicked
14 if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["delete_account"])) {
15     // Get the user's email from session
16     $userEmail = $_SESSION["email"];
17     // SQL to delete user account
18     $sql = "DELETE FROM USERS WHERE userEmail = '$userEmail'";
19
20     // Attempt to execute the query
21     if (mysqli_query($link, $sql)) {
22         // Account deleted successfully, set success message
23         $_SESSION['delete_success'] = true;
24         // Redirect to login page
25         header("Location: login.php");
26         exit();
27     } else {
28         // Error deleting account
29         echo "Error deleting account. Please try again later.";
30     }
31 }
32
33 // Close connection
34 mysqli_close($link);
35 ?>
```

The delete_account.php contains the session info of the users email and deletes the users account permanently.

Code:

```
1 <div class="heading" id="userInfo">
2     <?php
3
4     // Retrieve data from session variables
5     $userEmail = $_SESSION["email"];
6     $mobileNo = $_SESSION["mobile"];
7     $userName = $_SESSION["username"];
8
9     // Display the data
10    if(isset($_COOKIE['name']) && !empty($_COOKIE['name'])){ echo "Name: ", $_COOKIE["name"]; }
11    echo "<p>Email: $userEmail </p>";
12    echo "<p>Mobile Number: $mobileNo </p>";
13    echo "<p>Username: $userName </p>";
14    ?>
15
16    <!-- Log out button -->
17    <form action="logout.php" method="post">
18        <button type="submit" name="logout" style="background-color: #ff3a00;
19                                         border: none;
20                                         color: white;
21                                         padding: 10px 20px;
22                                         text-align: center;
23                                         text-decoration: none;
24                                         display: inline-block;
25                                         font-size: 16px;
26                                         margin: 4px 2px;
27                                         transition-duration: 0.4s;
28                                         cursor: pointer;
29                                         border-radius: 8px;">Log Out</button>
30    </form>
31
32    <form action="delete_account.php" method="post">
33        <button type="submit" name="delete_account" style = "background-color: #ff3a00;
34                                         border: none;
35                                         color: white;
36                                         padding: 10px 20px;
37                                         text-align: center;
38                                         text-decoration: none;
39                                         display: inline-block;
40                                         font-size: 16px;
41                                         margin: 4px 2px;
42                                         transition-duration: 0.4s;
43                                         cursor: pointer;
44                                         border-radius: 8px;">Delete Account</button>
```

The Account.php contains the session info and the access to the logout and delete account button.

CONCLUSION

In conclusion, the "Sweet Retreat" website offers a seamless experience for ordering freshly baked goods and festive accessories. We are committed to providing personalized service and memorable moments for our customers. Moving forward, we will continue to innovate and uphold our reputation as the go-to destination for indulgence and celebration online.