

Project Title: A* Restaurants

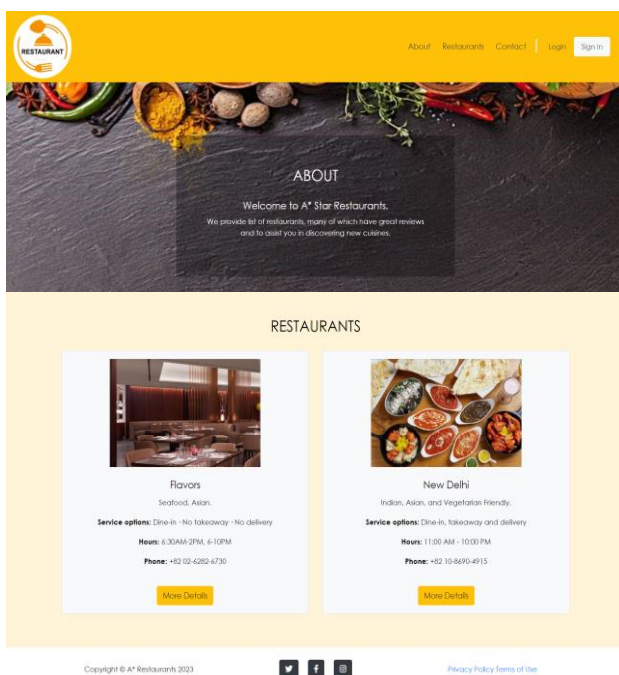
GitHub Link: [GitHub](#)

Goals and Objectives or Project

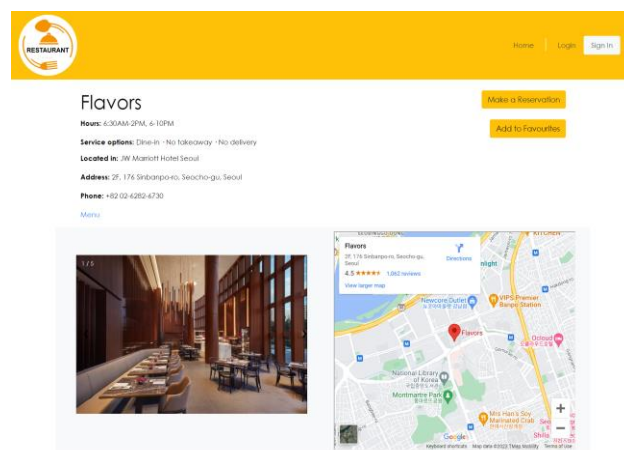
- Displaying top restaurants from different cuisines in South Korea.
- Enable users to sign up / login to save / remove their favourites restaurants.
- Displaying all favourite restaurants from the user's profile page.
- Sign up / Login will have user authentication and validation (using Captcha).

Output Screenshots

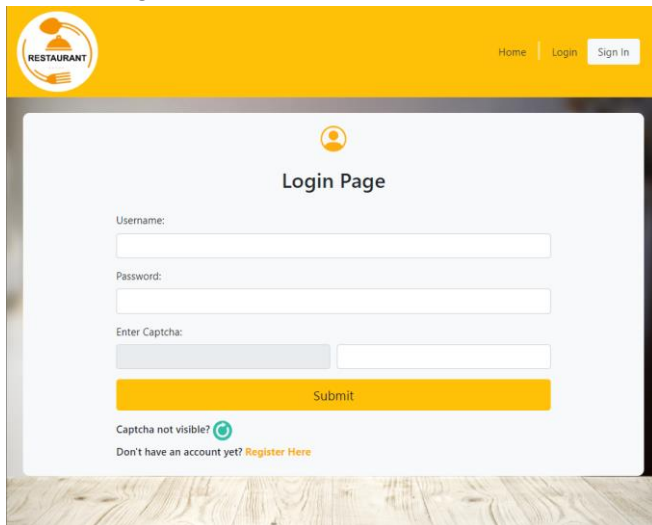
- Homepage.php



- Flavors (when more details page is clicked)

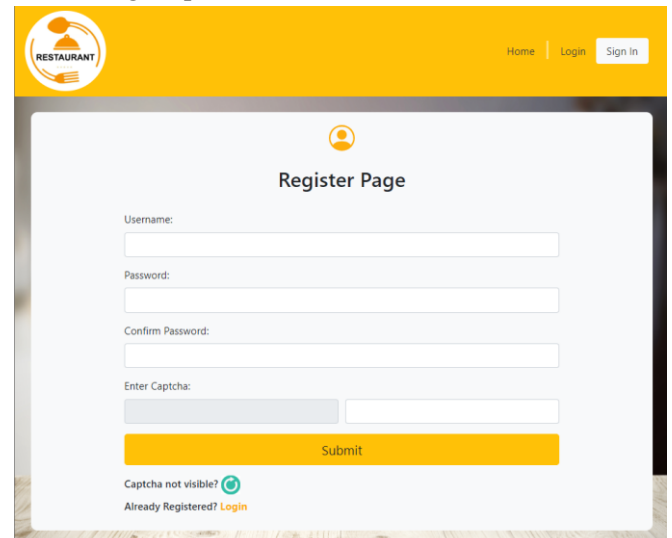


- Login



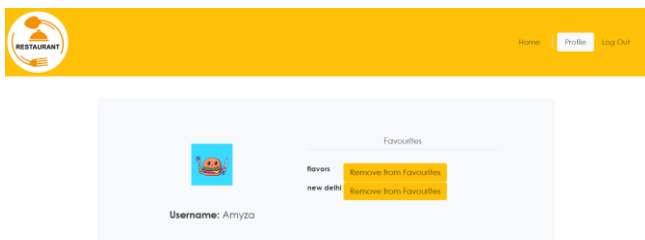
The screenshot shows the 'Login Page' of a restaurant website. The page has a yellow header with a logo and navigation links: Home, Login, and Sign In. The main content area is white and contains a login form with fields for Username, Password, and Enter Captcha. A yellow 'Submit' button is at the bottom of the form. Below the button, there is a link for 'Captcha not visible?' and a link for 'Don't have an account yet? Register Here'.

- Sign Up



The screenshot shows the 'Register Page' of a restaurant website. The page has a yellow header with a logo and navigation links: Home, Login, and Sign In. The main content area is white and contains a registration form with fields for Username, Password, Confirm Password, and Enter Captcha. A yellow 'Submit' button is at the bottom of the form. Below the button, there is a link for 'Captcha not visible?' and a link for 'Already Registered? Login'.

- Profile



The screenshot shows the 'Profile' page of a restaurant website. The page has a yellow header with a logo and navigation links: Home, Profile, and Log Out. The main content area is white and contains a profile card for 'Username: Amyza'. The card shows a user avatar and a list of 'Favourites' restaurants. The first restaurant is 'Bavon' with a 'Remove from Favourites' button. The second restaurant is 'new delhi' with a 'Remove from Favourites' button.

Summary of Project

- The user will be directed to homepage.php where in the page it will show about, list of restaurants and contact info for A* Restaurants Company
- The user will then click on “more details” button on the restaurant and in this page the user will be able to make a reservation or add to their favourite restaurants where it will be stored in a database and will be displayed in their profile page.
- If the user has login their account, they will be able to add the restaurant to favourites. While an alert will show up if the user is not logged in and thus the user will be redirected to the login page.
- In the login page the user will have to fill in their username, password and captcha for user authentication and validation. The user will be redirected to homepage once they have successfully logged in.
- After adding a restaurant to favourites to the user will be redirected to their profile page where in here can are able to see their list of favourite restaurants and can remove them from the list of favourites.

- All of the data are stored into mySQL database.
- When the user are logged in the login and sign up button are changed to profile and logout button respectively.
- Bootstrap is used to make the website look appropriate and some codes for Captcha and Gallery (next to the Google map on Flavors page above) are taken from W3Schools for reference.

Major Code Description

- Captcha (JavaScript):

```

11 function cap() {
12     var characters = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M',
13                     'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z',
14                     '1', '2', '3', '4', '5', '6', '7', '8', '9', '0', 'a', 'b', 'c',
15                     'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p',
16                     'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z', '!', '@', '#',
17                     '$', '%', '^', '&', '*', '+'];
18 };
19
20 var lengthChar = characters.length;
21
22 var char1 = characters[Math.floor(Math.random() * lengthChar)];
23 var char2 = characters[Math.floor(Math.random() * lengthChar)];
24 var char3 = characters[Math.floor(Math.random() * lengthChar)];
25 var char4 = characters[Math.floor(Math.random() * lengthChar)];
26 var char5 = characters[Math.floor(Math.random() * lengthChar)];
27 var char6 = characters[Math.floor(Math.random() * lengthChar)];
28
29 var captcha = char1 + char2 + char3 + char4 + char5 + char6;
30 document.getElementById('captcha').value = captcha;
31 }

```

Figure1.1

From Figure 1.1, JS was used to make 6 random characters from character arrays (containing alphabets and symbols).

```

24 // checking captcha
25 if ($_POST['captcha'] != $_POST['captchaEntered']) {
26     $message[] = "Please enter a valid captcha";
27 } else if (empty($_POST['captchaEntered'])) {
28     $message[] = "Please enter a valid captcha";
29 }

```

Figure 1.2

Figure 1.2 shows the code that is used to validate if the user have successfully enter the right captcha.

- Adding and Extracting Data from Database:

```

Assignment > Project > favourite.php > ...
1  <?php
2  include 'database.php';
3  $username = $_GET['username'];
4  $favourites = $_GET['favourites'];
5
6  $sql = "INSERT INTO favourites (username, favourites) VALUES ('$username', '$favourites')";
7
8  if (mysqli_query($con, $sql)) {
9      echo '<script>alert("Your item has succesfully added to favourites")</script>';
10     header('refresh: 0; url=profile.php?username=' . $username);
11 } else {
12     echo "Error updating record: " . mysqli_error($con);
13 }
14
15 mysqli_close($con);
16 ?>

```

Figure 2.1

```

Assignment > Project > remove.php > ...
1  <?php
2  include 'database.php';
3  $username = $_GET['username'];
4  $favourites = $_GET['favourites'];
5
6  $sql = "DELETE FROM favourites WHERE favourites = '" . $favourites . "' AND username = '" . $username . "'";
7
8  if (mysqli_query($con, $sql)) {
9      echo '<script>alert("Your item has succesfully removed to favourites")</script>';
10     header('refresh: 0; url=profile.php?username=' . $username);
11 } else {
12     echo "Error updating record: " . mysqli_error($conn);
13 }
14
15 mysqli_close($con);

```

Figure 2.2

```

<!-- extract favourites from database -->
<?php
if (mysqli_num_rows($result) > 0) {
    while ($row = mysqli_fetch_assoc($result)) {
        echo '<p style="font-weight:bold"> ' . $row['favourites'];
        echo '<a style="float:right" href="remove.php?username=' . $username . '&favourites=' . $row['favourites'] . '" class="btn btn-warning">Remove from Favourites</a> <br/>';
    }
} else {
    echo '<p style="text-align:center">You have no favourites.</p>';
}
?>
<!-- end extract favourites from database -->

```

Figure 2.3

From Figure 2.1, the data is being inserted into the database. When the user has successfully inserted into the database an alert will pop “Successfully added to favourites” and the user will be redirected to their profile page.

For Figure 2.3, the “Remove from Database” button is shown on their profile page next to the restaurant’s name, and when the button is clicked, the user will be alerted with “Successfully removed from favourites” and the user will be redirected back to their profile page. The delete function can be seen in figure 2.2.

Conclusion

In conclusion, the goal of the A* Restaurant project is to allow customers to browse a range of restaurants and store them in their favourites after creating an account or logging in. The user will also have the ability to book a table and have more information about the restaurant. Lastly, this project aims to demonstrate the fundamentals of web development such as using JavaScript and connecting data from the database (inserting or deleting data).