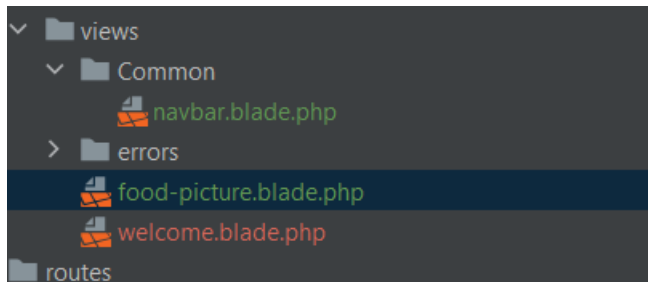


API assignment

The website is hosted on: <https://bout0047.github.io/API/>

Step 1: Set up the necessary files and dependencies

- Create a new PHP file, e.g., `random_food_picture.php`.



Step 2: Include the code in your PHP file

- Copy and paste the entire code you provided into the `random_food_picture.php` file.

Step 3: Define the `getRandomFoodImage()` function

- This function generates a random recipe ID and constructs the image URL using the Spoonacular API.
- If you'd like to customize the size or image type, you can modify the `\$size` and `\$imageType` variables accordingly.

```
function getRandomFoodImage() {  
    $recipeId = rand(1, 500);  
    $imageType = 'jpg';  
    $size = '556x370';  
    $imageUrl = "https://spoonacular.com/recipeImages/{$recipeId}-{$size}-{$imageType}";  
    return $imageUrl;  
}  
  
// Check if it's an AJAX request for a new random image  
if ($_SERVER['REQUEST_METHOD'] === 'GET' && isset($_SERVER['HTTP_X_REQUESTED_WITH']) && strtolower($_SERVER['HTTP_X_REQUESTED_WITH']) === 'xmlhttprequest') {  
    // Return a JSON response with the new random image URL  
    $response = array('imageUrl' => getRandomFoodImage());  
    header('Content-Type: application/json');  
    echo json_encode($response);  
    exit();  
}
```

Step 4: Handle the AJAX request

- The code checks if the request is an AJAX request (`HTTP_X_REQUESTED_WITH` header is set to `xmlhttprequest`).
- If it is an AJAX request, a JSON response is sent back containing the new random image URL.
- This allows the image to be updated dynamically without refreshing the page.

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script>
  $(document).ready(function() {
    $('#change-picture-btn').on('click', function() {
      $.ajax({
        url: window.location.href,
        method: 'GET',
        beforeSend: function(xhr) {
          xhr.setRequestHeader('X-Requested-With', 'XMLHttpRequest');
        },
        success: function(response) {
          $('#food-picture img').attr('src', response.imageUrl);
        },
        error: function() {
          alert('Failed to fetch a new random image. Please try again.');
```

Step 5: Create the HTML structure

- The HTML code inside the `body` tag creates a simple layout for the page.
- It includes a heading, a container for the food picture, and a button to change the picture.
- The initial image is loaded by calling the `getRandomFoodImage()` function.

Step 6: Implement the JavaScript functionality

- The JavaScript code uses jQuery to handle the click event on the "Change Picture" button.
- When the button is clicked, an AJAX request is sent to the current page (`window.location.href`).
- The request includes the `X-Requested-With` header to indicate it is an AJAX request.

- Upon a successful response, the image source is updated with the new random image URL.

Step 7: Run the application

- Save the `random_food_picture.php` file.
- Start a local development server or upload the file to a web server.
- Open the file in a web browser, and you should see the "Random Food Picture" page.
- Clicking the "Change Picture" button will trigger an AJAX request and update the image dynamically.

That's it! You now have a working application to fetch and display random food pictures from the Spoonacular API.

