UIT2602 WEB PROGRAMMING

Ex. No 07: AJAX Integration

Name: Sabarish Sankaran B

Class: IT-B

Roll No: 3122215002087

Aim:

To demonstrate the integration of AJAX (Asynchronous JavaScript and XML) into a web application, enabling dynamic and interactive features such as live search, dynamic form submissions, and updating parts of the page without refreshing.

Procedure and Code:

Step 1: Setting Up the Files Create the following files in your project directory:

- search.html
- search.php
- submit.php
- dynamic-content.php

Step 2: Include the jQuery Library

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
```

Step 3: Live Search: Create input

```
<h2>Live Search</h2>
<!-- Step 3: Live Search - Create input and search results container -->
<input type="text" id="searchInput" placeholder="Search...">
<div id="searchResults"></div></div>
```

Step 4: Attach an event listener to the input field to trigger an AJAX request whenever the user types in the search box

```
// Submit search form
  $('#searchInput').on('keyup', function(){
    var searchText = $(this).val();
    if(searchText !== ''){
        $.ajax({
```

```
url: 'search.php',
    method: 'POST',
    data: {query: searchText},
    dataType: 'json',
    success: function(response){
        displayResults(response);
    }
    });
} else {
    $('#searchResults').html('');
}
});
```

Step 5: Dynamic Form Submission

Step 6: Intercept the form submission using AJAX to prevent the default behavior, then submit the form data asynchronously.

```
// Step 6: Intercept the form submission using AJAX to prevent the default
behavior, then submit the form data asynchronously
    $('#myForm').submit(function(event) {
        event.preventDefault(); // Prevent default form submission
        var formData = $(this).serialize();
        $.ajax({
            url: 'submit.php', // URL to your server-side script handling form
            method: 'POST',
            data: formData,
            success: function(response) {
                console.log(response);
                $('#submitResponse').html(response); // Display the response
            error: function(xhr, status, error) {
                // Handle error response
                console.error(error);
        });
```

Step 7: Updating Parts of the Page Without Refreshing

```
<!-- Step 7: Updating Parts of the Page Without Refreshing -->
<h2>Dynamic Content</h2>
<div id="dynamicContent"></div>
```

Step 8: Use AJAX to fetch new content from the server and update the container periodically.

Output:

(i) Live Search

Live Search

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Strawberry: Small, red fruit with seeds on the outside and a sweet flavor.

Live Search



Pineapple: A tropical fruit with a spiky skin and sweet, juicy flesh.

Mango: A tropical fruit with a sweet, juicy flesh and a distinctive aroma.

Watermelon: Large, juicy fruit with green skin and pink or red flesh.

(ii) Dynamic Form Submission

Dynamic Form Submission

Vasundhara vasundhara2110257@ssn.e Submit Submit Form submitted successfully! Username: Vasundhara Email: vasundhara2110257@ssn.edu.in

(iii) Dynamic Content

Dynamic Content

This is dynamic content fetched from the server at 2024-04-15 16:28:24

Conclusion:

Incorporating AJAX into web applications allows for enhanced user experience by enabling dynamic and interactive features. AJAX facilitates smoother communication between the client and server, resulting in a more responsive and engaging user interface.