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**Introduction of AJAX :**

AJAX = Asynchronous JavaScript And XML.

AJAX is not a programming language.

AJAX just uses a combination of:

- A browser built-in XMLHttpRequest object (to request data from a web server)
- JavaScript and HTML DOM (to display or use the data)

Ajax is based on internet standards like : XML, CSS, JavaScript/DOM, XMLHttpRequest objects.

For example,

I've a one textbox for search. when a user types a character in the input field, a function called "showHint()" is executed.

The function is triggered by the onkeyup event.

### Ajax Example :

```
<html>

<head>

  <script type="text/javascript">
    function load($thetag, $thefile) {
      if (window.XMLHttpRequest) {
        xmlhttp = new XMLHttpRequest();
      } else {
        xmlhttp = new ActiveXObject('Microsoft.XMLHTTP');
      }
      xmlhttp.onreadystatechange = function() {
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
          document.getElementById($thetag).innerHTML = xmlhttp.responseText;
        }
      }
      xmlhttp.open('GET', $thefile, true);
      xmlhttp.send();
    }
  </script>
</head>

<body>
  <input type="submit" onclick="load('adiv','include.php');">
  <div id="adiv">
    <div>
  </body>

</html>
```

## Autosuggest Application in AJAX :

Index.php :

```
<html>
<head>
  <title>Autosuggest App with AJAX</title>
</head>
<script type="text/javascript">
  function findMatch() {
    if (window.XMLHttpRequest) {
      xmlhttp = new XMLHttpRequest();
    } else {
      xmlhttp = new ActiveXObject('Microsoft.XMLHTTP');
    }
    xmlhttp.onreadystatechange = function() {
      if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
        document.getElementById('results').innerHTML = xmlhttp.responseText;
      }
    }
    xmlhttp.open('GET', 'search.php?search_text='+document.search.search_text.value, true);
    xmlhttp.send();
  }
</script>
<body>
  <form id="search" name="search">
    Type a Name :
    <input type="text" name="search_text" onkeyup="findMatch();" />
  </form>
  <div id="results"></div>
</body>
</html>
```

Search.php :

```
<?php

if (isset($_GET['search_text'])) {
    $search_text = $_GET['search_text'];
}

if (!empty($search_text)) {
    if ($conn = @mysqli_connect('localhost', 'root', '')) {
        if (@mysqli_select_db($conn, 'practice')) {
            $query = "SELECT `name` from `name` where `name` like '" . mysqli_real_escape_string($conn, $search_text) . "%'";
            $query_run = mysqli_query($conn, $query);
            while ($query_row = mysqli_fetch_assoc($query_run)) {
                echo $name = '<a href="anotherpage.php?search_text=' . $query_row['name'] . ">' . $query_row['name'] . '</a><br>';
            }
        }
    }
}
?>
```

Insert Data with POST method in AJAX :

Update.php :

```
<?php
$conn = @mysqli_connect('localhost', 'root', '');
$db = @mysqli_select_db($conn, 'practice');

if (isset($_POST['text'])) {
    $text = $_POST['text'];
    if (!empty($text)) {
        $query = "INSERT into name values ('" . mysqli_real_escape_string($conn, $text) . "')";
        if ($query_run = mysqli_query($conn, $query)) {
            echo 'Data inserted!';
        } else {
            echo 'Failed!';
        }
    } else {
        echo 'Please type something!';
    }
}
?>
```

Index.php :

```
<html>
<head>
  <title>Ajax Posting Data Example</title>

  <script type="text/javascript">

    function insert() {
      if (window.XMLHttpRequest) {
        xmlhttp = new XMLHttpRequest();
      } else {
        xmlhttp = new ActiveXObject('Microsoft.XMLHTTP');
      }
      xmlhttp.onreadystatechange = function() {
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
          document.getElementById('message').innerHTML = xmlhttp.responseText;
        }
      }
      parameters = 'text='+document.getElementById('text').value;
      xmlhttp.open('POST', 'update.php', true);
      xmlhttp.setRequestHeader('Content-type','application/x-www-form-urlencoded');
      xmlhttp.send(parameters);
    }
  </script>
</head>
<body>
  Insert :
  <input type="text" id="text">
  <input type="submit" value="submit" onclick="insert();">
  <div id="message"></div>
</body>
</html>
```