

# Assignment 6

Deeksha Tiwari  
19MCMC16

Question1. Design and develop an AJAX application displaying the factors of a number entered in the input box. The javascript code will pass the number entered in the input box to the backend PHP code, and the PHP code will return all the factors of this number. All these actions will happen within one page and without reloading the whole page. All we need are 3 files below for this AJAX application .

q1.html

```
<html>
<body>
  <form>
    <label for="input"><b>Enter Number: </b></label>

    <input type="number" id="input" name="input" placeholder="Enter
Number" />

    <input type="button" value="Factor" onclick="showDetails()" />
  </form>
  <br />

  <div id="txtHint"><b>Factors are : </b></div>

  <script src="q1.js"></script>
</body>
</html>
```

q1.js

```
function showDetails() {
  // function for fetching the input detail entered by use
  var val = document.getElementById("input").value;
  if (val == "") {
    alert("Error!\nCannot be empty!");
    document.getElementById("txtHint").innerHTML = "";
    return;
  } else if (val <= 0) {
    alert("Sorry\nEnter positive number.");
```

```

        document.getElementById("txtHint").innerHTML = "";
        return;
    } else {
        if (window.XMLHttpRequest) {
            xmlhttp = new XMLHttpRequest();
            t;
        } else {
            xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange = function () {
            if (this.readyState == 4 && this.status == 200) {
                document.getElementById("txtHint").innerHTML = this.responseText;
            }
        };
        xmlhttp.open("GET", "q1.php?q=" + val, true);
        xmlhttp.send();
    }
}

```

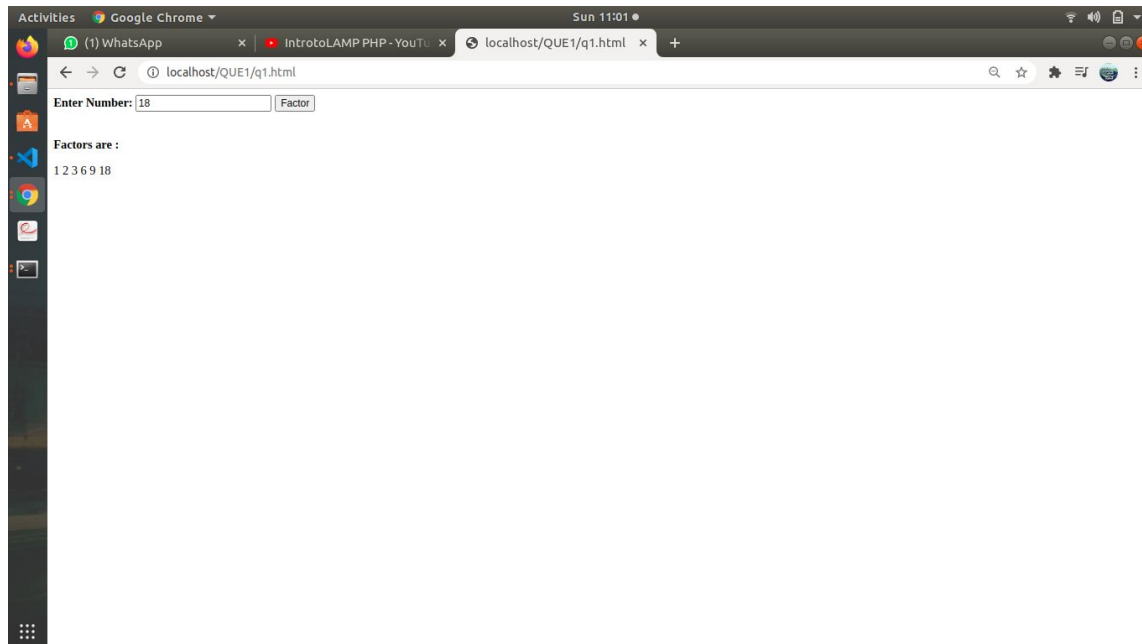
q1.php

```

<html>
<body>

<?php
$q = $_GET['q'];
echo "<br>";
function printFactor($q)
{
    for ($i = 1; $i * $i <= $q; $i++)
        if ($q % $i == 0) {
            echo $i . " * " . $q / $i . "\n";
            echo "<br>";
        }
}
// print factor
printFactor($q);
?>
</body>
</html>

```



Question2. Design and develop an AJAX application for displaying the details of student, when the student id is entered in the textbox. Data should be retrieved from the database without reloading the whole page.

q2.html

```
<html>
<head>
<script>
//Function to show user whn clicked from option
function showUser(str) {
if (str == "") {
document.getElementById("txtHint").innerHTML = "";
return;
} else {
var xmlhttp = new XMLHttpRequest();
xmlhttp.onreadystatechange = function() {
if (this.readyState == 4 && this.status == 200) {
document.getElementById("txtHint").innerHTML = this.responseText;
}
};
xmlhttp.open("GET","getuser.php?q="+str,true);
xmlhttp.send();
}
}
</script>
```

```

</head>
<body>
<form>
<select name="users" onchange="showUser(this.value)">
<option value=""> Select a person: </option>
<option value="1"> 19MCMC01 </option>
<option value="2"> 19MCMC02 </option>
<option value="3"> 19MCMC03 </option>
<option value="4"> 19MCMC04 </option>
<option value="5"> 19MCMC05 </option>
<option value="6"> 19MCMC06 </option>
</select>
</form>
<br>
<div id="txtHint"><b> Person information here... </b></div>
</body>
</html>

```

## q2.php

PHP CODE

```

<!DOCTYPE html>
<html>
<head>
<style>
table {
width: 100%;
border-collapse: collapse;
}
table, td, th {
border: 1px solid black;
padding: 5px;
}
th {text-align: left;}
</style>
</head>
<body>//Retrieving data while connecting to mysql using php
<?php
$q = intval($_GET['q']);
$con = mysqli_connect('localhost','deeksha','abc123','my_db');
if (!$con) {

```

```
die('Could not connect: ' . mysqli_error($con));
}
mysqli_select_db($con,"ajax");
$sql="SELECT * FROM user WHERE id = '". $q. "'";
$result = mysqli_query($con,$sql);
//the output gets printed in the form of a table without reloading on the
same page
echo "<table>
<tr>
<th>Firstname</th>
<th>Age</th>
<th>Sex</th>
<th>Rollno</th>
</tr>";
while($row = mysqli_fetch_array($result)) {
echo "<tr>";
echo "<td>" . $row['Name'] . "</td>";
echo "<td>" . $row['Age'] . "</td>";
echo "<td>" . $row['Sex'] . "</td>";
echo "<td>" . $row['Rollno'] . "</td>";
echo "</tr>";
}
echo "</table>";
mysqli_close($con);
?>
</body>
</html>
```