

# UNIT-3

## AJAX and Validation

1. Create a form containing one input field (Name). When the user enters his/her name and as any key is released , the form should display a welcome message for the user.Implement using AJAX.
2. Repeat the above question to demonstrate the use of keydown and keypress events.
3. Write a program for converting a string into uppercase using AJAX.
4. Create a form containing a combobox with some product names as items. Whenever a user selects a particular product from the combox, it shuold be sent to the server asynchronously (i.e. without pressing submit button). Implement using AJAX.
5. Write a program to demostrate the example of sending items selected from radio and checkbox to server asynchronously.
6. Write a program to validate a blank field and also validate the length of the data entered(i.e. minimum lenght of 5).
7. Write a programto validate and Email ID using regular expression and by using DOM.
8. Write a program that checks a particular stuId already exists in the student(stuId,stu\_name,mob,country) table or not. If stuId exists then display a message.  
"User Already Exit. Try another stuId". If it does not exits then add the data in the student table.Implement using AJAX.

## Unit -3 AJAX and Validation

### 3.1 What is AJAX?

AJAX stands for Asynchronous JavaScript and XML. It is a set of web development techniques which allow web applications to work asynchronously – processing any requests to the server in the background from client machine. Ajax is a client-side script that communicates to and from a server/database without the need for a postback or a complete page refresh. This technology is reduce the interaction between server and client machine. It is the method of exchanging data with server and updating parts of webpage without reloading an entire webpage.

**JavaScript** is only the client side scripting language and it is working on client web browser. Because of JavaScript support It is working Asynchronously.

**XML** is the acronym for Extensible Mark-up Language. It is used to encode messages in both human and machine readable formats. It's like HTML but allows you to create your custom tags.

The Document Object Model (**DOM**) for dynamic display data and its interaction.

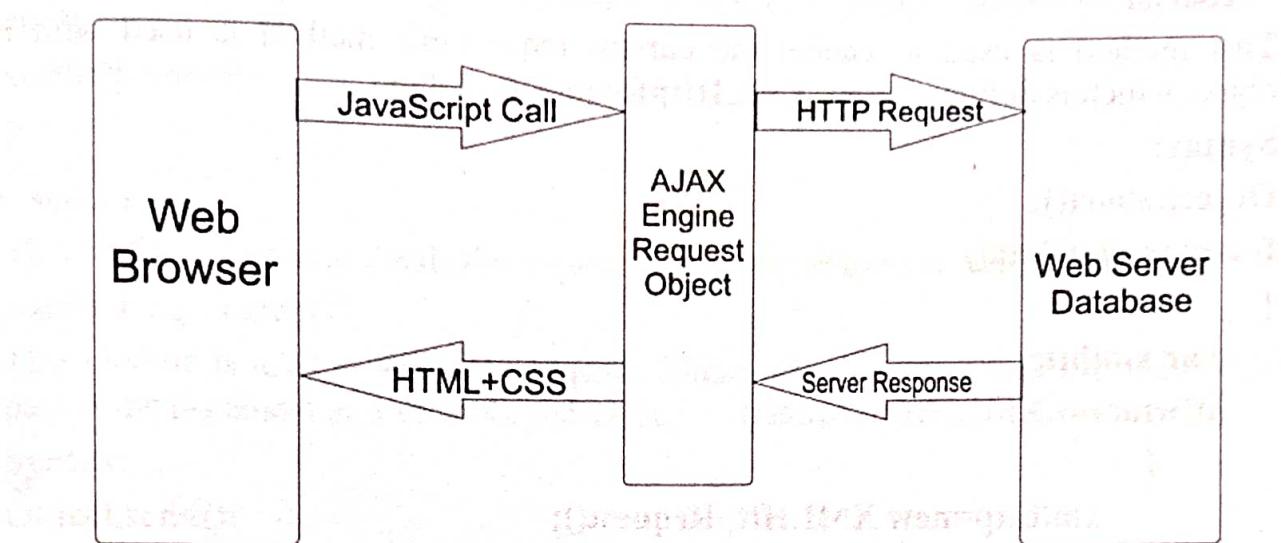
The XMLHttpRequest object for the asynchronous communication.

#### ➤ Why AJAX?

- IT is used to develop rich interactive web application.
- IT will validate form control without submitting a form and also provide quick request response from server side.
- Data can be retrieved from the server and only a certain part of a page updated without loading the whole page.

#### ➤ How AJAX work?

- HTML and CSS for marking up and styling information us.
- The DOM accessed with JavaScript to dynamically display and interact with the information presented.
- A method for exchanging data asynchronously between browser and server, thereby avoiding page reloads. The XMLHttpRequest (XHR) object is usually used, but sometimes an IFrame object or a dynamically added tag is used instead.
- A format for the data sent to the browser. Common formats include XML, pre-formatted HTML, plain text, and JavaScript Object Notation (JSON). This data could be created dynamically by some form of server-side scripting.



*Fig. 3.1 How AJAX work?*

### 3.2 AJAX Request Object:

In Web application AJAX Engine send request using AJAX Request Object, for that it is use XMLHttpRequest method to create XML HTTP request object. IT is used to exchange information or data with a webserver behind the scenes. It will update web page without reloading. All modern browsers (Chrome, Firefox, IE7+, Edge, Safari, Opera) have a built-in XMLHttpRequest object. It is inbuilt JavaScript library method.

Syntax for creating an XMLHttpRequest object:

**Syntax:** `Variable=new XMLHttpRequest();`

```

Variable=new XMLHttpRequest();
var xmlhttp = new XMLHttpRequest();
function ajaxdata()
{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
}
  
```

### 3.3 XMLHttpRequest Methods:

Following methods are used with XMLHttpRequest object.using this object we can call any method based on our requirement. We will discuss all one by one

➤ **Abort()**

This method is used to cancel the current request. This method is used with <sup>request</sup> object, which is defined by new XMLHttpRequest() method.

**Syntax:**

**Object.abort();**

**function ajaxdata()**

{

**var xmlhttp;**

**if(window.XMLHttpRequest)**

    {

**xmlhttp=new XMLHttpRequest();**

    }

**xmlhttp.abort();**

}

**open(method,url,async)**

This method is used to specify the request. It has three arguments one is method second is URL and third is asynchronous (true) or (false).

In first argument we pass the method which is help to send request on URL page. It uses two methods GET and POST, we can use one of the methods to post our data on URL page.

In second argument URL we pass the page name where we want to send a request data. It may be any server request page. We can also append any variable with value in URL to send data on request page.

In third argument we pass True or False if it is True then it will send our request asynchronously or if it is False then it will send our request synchronously.

**Syntax:**

**Object.open(method,url,async);**

**function ajaxdata()**

{

**var xmlhttp;**

**if(window.XMLHttpRequest)**

{

**xmlhttp=new XMLHttpRequest();**

**also run this code and open www.google.com in browser and click on search button and see what happens**

```

    xmlhttp.open("GET","login_chk.php?username="+user+"&password",true);
    xmlhttp.abort();
}

```

➤ **send()**

This method is used to Sends the request. This method used with GET method.

#### **send(string/content)**

This method is used to Sends the request. This method used with POST method. We will pass some argument as a variable and value.

**Syntax:**

**Object.send();**

**function ajaxdata()**

```

{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    xmlhttp.open("GET","login_chk.php?username="+user+"&password",true);
    xmlhttp.send();
}

```

➤ **getAllResponseHeaders()**

This method is used to get the response from server it will get header information. It will bring all kind of data in string otherwise null response.

➤ **getResponseHeader()**

This method is used to get the response from server, it will get header information. It will bring only text data of particular header value in response.

### **3.4 XMLHttpRequest Object Properties:**

➤ **onreadystatechange**

This is an event handler it will call when readyState attributes are change. It must not be used with synchronous requests.

➤ **readyState**

It represent the current state of XMLHttpRequestObject. Following are the different 0 to 4 states.

0 The request is not initialized.

This state is after the XMLHttpRequestObject is created but before the open() method is used.

1. The request has been set up.

This state is after the open() method is called but before the send() method.

2. The request has been sent.

This state is after the send() method is called.

3. The request is in process.

This state after the browser has established a communication with the server, but before the server has completed the response.

4. The request is completed.

This state is after the request has been completed, and the response data has been completely received from the server.

#### ➤ **responseText**

This is returning the response text. When we get response in string then we will use this.

#### ➤ **responseXML**

This is returning the response in XML. When we get XML Document structure in response then we use this.

#### ➤ **status**

This will return the status number as a response. This status are define the response status of web server and web browser.

For example

200 : OK.

400 : Bed Request.

403: Forbidden

404: not Found.

500: Internal server Error.

#### ➤ **statusText**

This will return the status Text as a response. This status are define the response status of web server and web browser. (e.g., "Not Found" or "OK" or "Bed Request" etc.).

Syntax:

**xmlhttp.onreadystatechange=function()**

```
{  
  
if (xmlhttp.readyState==4 && xmlhttp.status==200)  
{  
    document.getElementById("info").innerHTML=xmlhttp.responseText;  
}  
}  
} 
```

## UNIT- 3 Practical

1. Create a form containing one input field (Name). When the user enters his/her name and as any key is released , the form should display a welcome message for the user. Implement using AJAX.

### ➤ form\_data.php

```
<!DOCTYPE>  
<html>  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />  
<title>Untitled Document</title>  
<script type="text/javascript" language="javascript">  
function showdata()  
{  
    var xmlhttp;  
    if(window.XMLHttpRequest)  
    {  
        xmlhttp=new XMLHttpRequest();  
    }
```

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```

        }
        else
        { //for only ie5 and ie6
            xmlhttp=new ActiveXObject('Microsoft.XMLHTTP');
        }
        var unm=document.getElementById('t').value;
        var pass=document.getElementById('t2').value;

        xmlhttp.open('POST','ajaxfrm2.php?uname='+unm+'&Password='+pass,true);
        xmlhttp.onreadystatechange=function()
        {
            if (xmlhttp.readyState==4 && xmlhttp.status==200)
            {
                document.getElementById("info").innerHTML=xmlhttp.responseText;
            }
        }
        xmlhttp.send();
    }
</script>
</head>
<body>
<form name="frm" id="frm" action="post" onsubmit="showdata(); return false">
    Enter Uname:<input type="text" id="t" name="t"/><br />
    Enter Password:<input type="password" id="t2" name="t2"/><br />
    <input type="submit" name="submit" value="submit"/>
</form>
<h1><div id="info"></div></h1>
</body>
</html>

```

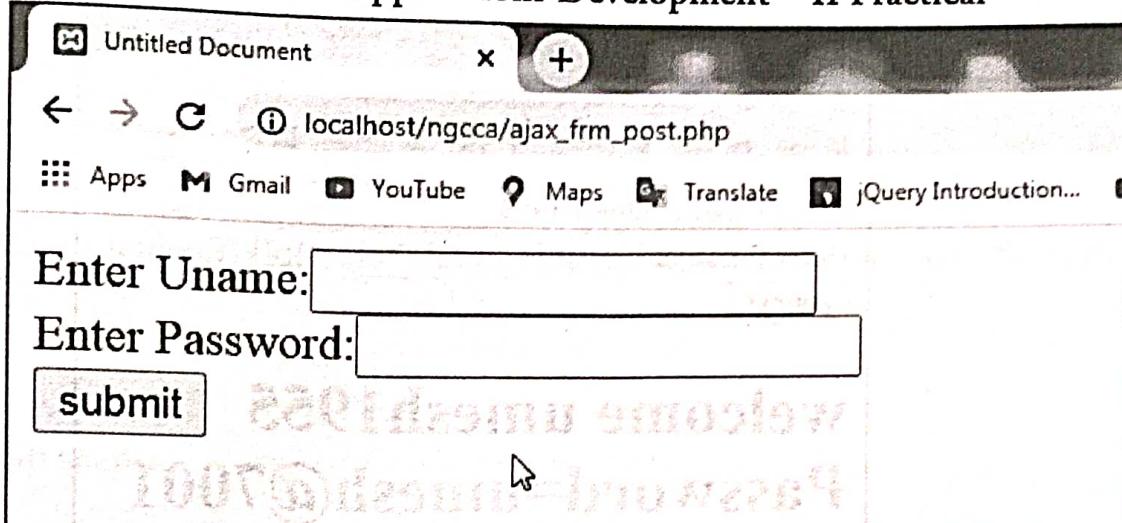


Fig 3.2 Form submission using AJAX

➤ **ajaxfrm2.php**

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
</head>
<body>
<?php
$name=$_GET['uname'];
$pass=$_GET['Password'];
if($name=="" || $pass=="")
{
echo "Please Enter user name and password";
}
else
{
echo "welcome ".$name;
echo "<br> Password=".$pass;
}
?>
</body>
</html>
```

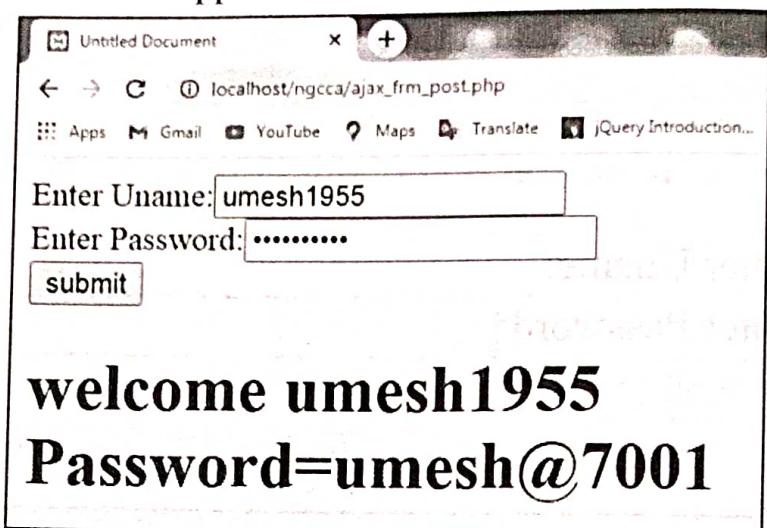


Fig 3.3 Form Submitted with Username and Password in AJAX

2. Create a form containing one input field (Name). When the user enters his/her name on keyup, the form should display a welcome message for the user. Implement using AJAX.

➤ **form\_data\_2.php**

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
<script type="text/javascript" language="javascript">
function showdata()
{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    var unm=document.getElementById('t').value;
    xmlhttp.open('POST','ajaxfrm_keyup.php?uname='+unm,true);
    xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
    {
```

```
    }
    else
    {
        document.getElementById("info").innerHTML="Response not Set Something gone
wrong...!";
    }
}
xmlhttp.send();
}
</script>
</head>
<body>
<form name="frm" id="frm" action="post" >
    Enter Uname:<input type="text" id="t" name="t" onkeyup="showdata(); return
false"/><br />
</form>
<h1><div id="info"></div></h1>
</body>
</html>
```

#### ➤ ajaxfrm\_keyup.php

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
</head>
<body>
<?php
$name=$_GET['uname'];
echo "welcome ".$name;
?>
</body>
</html>
```

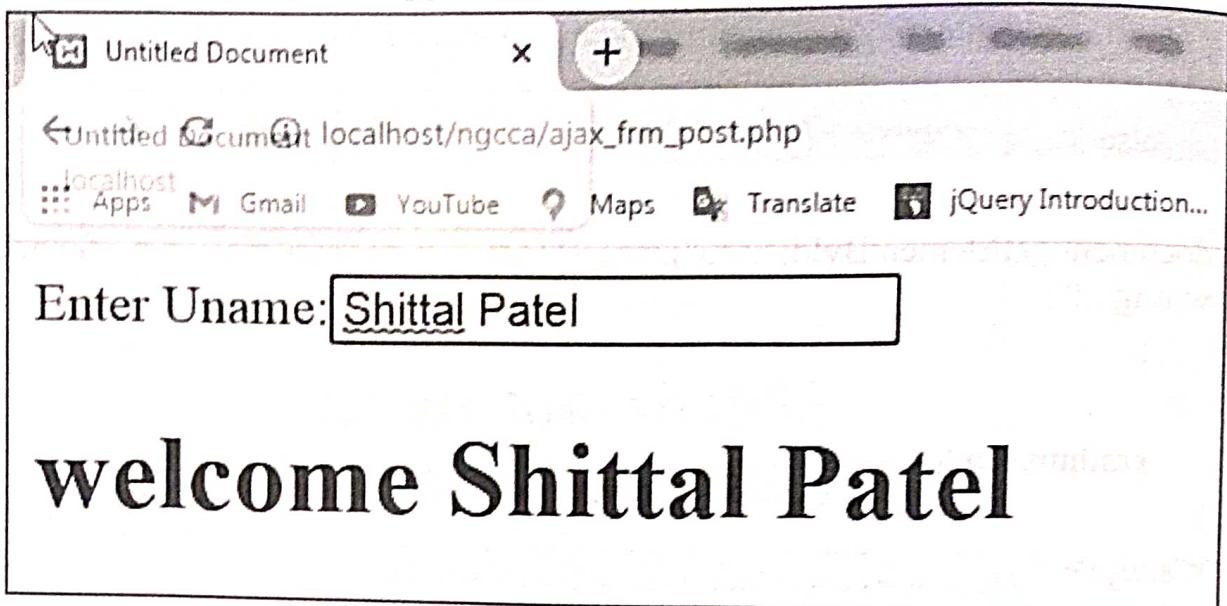


Fig 3.4 AJAX call on Keyup event

### 3. Write a program for converting a string into uppercase using AJAX.

Link\_upper.php

```
<!DOCTYPE >
<html>
<head>
<title>Untitled Document</title>
<style type="text/css">
#info
{
    color:red;
    background-color:#FFCC33;
}
</style>
<script type="text/javascript" language="javascript" src="ajax_upper.js"></script>
</head>
<body>
Enter your name<input type="text" name="n1" id="n1" value="" />
<!--Enter your name<input type="text" name="n1" id="n1" value="" onkeyup="uppercase()" /-->
<a href="javascript:uppercase()">Uppercase</a>
<h1 id="info"></h1>
</body>
```

&lt;/html&gt;

**Ajax\_upper.js**

```
// JavaScript Document
function uppercase()
{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    else
    { //for only ie5 and ie6
        xmlhttp=new ActiveXObject('Microsoft.XMLHTTP');
    }
    var n1=document.getElementById('n1').value;
    xmlhttp.open('GET','ajaxfrm_upper.php?n='+n1,true);
    xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
        {
            document.getElementById("info").innerHTML=xmlhttp.responseText;
        }
        xmlhttp.send();
    }
}
```

➤ **ajaxfrm\_upper.php**

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
```

```

</head>
<body>
<?php
$name=$_GET['n'];
if($name!="")
{
    echo strtoupper($name);
}
else
{
    echo "Please Enter Name";
}
?>
</body>
</html>

```

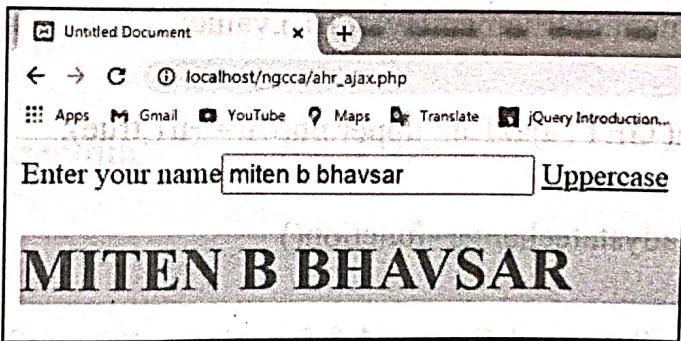


Fig 3.5 AJAX call on anchor tag to convert lowercase to uppercase.

- 4. Create a form containing a combobox with some product names as items. Whenever a user selects a particular product from the combobox, it shuold be sent to the server asynchronously (i.e. without pressing submit button). Implement using AJAX.**

➤ **Combobox\_ajax.php**

```

<!DOCTYPE html>
<html>
<head>
<title>Untitled Document</title>
<script type="text/javascript" language="javascript">
function catdisplay()

```

```

{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    var r=document.getElementById('cat').value;
    xmlhttp.open('GET','cat_data.php?sr='+r,true);
    xmlhttp.onreadystatechange=function()
    {
        if(xmlhttp.readyState==4 && xmlhttp.status==200)
        {
            document.getElementById("info").innerHTML=xmlhttp.responseText;
        }
    }
    xmlhttp.send();
}
</script>
</head>
<body>
<select name="cat" id="cat" onchange="catdisplay()">
<option value="">Please Select</option>
<option value="Camera">Camera</option>
<option value="Mobile">Mobile</option>
<option value="Computer">Computer</option>
<option value="Keyboard">Keyboard</option>
</select>
<h1 id="info"></h1>
</body>
</html>

```

**Connection.php**

```

<?php
//connection code

```

```
error_reporting("E_ALL");
$server="localhost";
$username="root";
$password="";
$database="onlineshoping";
$con=mysqli_connect($server,$username,$password,$database);
if(!$con)
{
    echo "Connection is not proper";
}
?>
```

➤ **Product\_search.php**

```
<!DOCTYPE >
<html>
<head>
<title>Untitled Document</title>
</head>
<body>
<?php
include("connection.php");
$s=$_GET['sr'];
if($s!="")
{
    $sel="select * from product where Product_Name like '".$s."'";
    $query=mysqli_query($con,$sel);
    $num=mysqli_num_rows($query);
    if($num>0)
    {
        echo "<table width=100% border=1>
<tr>
<th>Product id</th>
<th>Product Name</th>
<th>Product Price</th>
<th>Product Quantity</th>
```

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```
</tr>
while($row=mysqli_fetch_array($query))
{
echo "<tr>
<td>$row[Product_ID]</td>
<td>$row[Product_Name]</td>
<td>$row[Product_Price]</td>
<td>$row[Product_QTY]</td>
</tr>
";
}
echo "</table>";
}
else
{
echo "Product Not Found.";
}
}
else
{
echo "please Try again";
}
?>
</body>
</html>
```

The screenshot shows a web browser window with the title 'Untitled Document' and the URL 'localhost/ngcca/comboxbox\_ajax.php'. The browser's address bar also lists other open tabs like Gmail, YouTube, and jQuery introduction. The main content area displays an HTML table with four columns: Product id, product Name, Product Price, and Product Quantity. The first row contains the values 5, Camera, 26500.55, and 10 respectively.

Product id	product Name	Product Price	Product Quantity
5	Camera	26500.55	10

Fig. 3.6 AJAX call on select option onchange of product.

**5. Write a program to demonstrate the example of sending items selected from radio and checkbox to server asynchronously.**

➤ **Option\_frm.php**

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
<script type="text/javascript" language="javascript">
function selection()
{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    var r=document.getElementsByName("game");
    var game;
    for(var i=0;i<r.length;i++)
    {
        if(r[i].checked==true)
        {
            game=r[i].value;
        }
    }
    xmlhttp.open('GET','radio.php?radioselect='+game,true);
    xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
        {
            document.getElementById("info").innerHTML=xmlhttp.responseText;
        }
    }
}
```

```

    xmlhttp.send();
}

</script>
</head>
<body style="margin-left:500px;">
<input type="radio" name="game" value="Cricket" onclick="selection()"/>Cricket<br/>
<input type="radio" name="game" value="Football" onclick="selection()"/>Foot
Ball<br />
<input type="radio" name="game" value="Tenis" onclick="selection()"/>Tenis<br />
<!--<input type="button" name="game" value="Tenis" onclick="selection()"/><br />-->

<h1 id="info"></h1>
</body>
</html>

```

➤ **radio.php**

```

<?php
$r=$_GET['radioselect'];
echo "you have selected ". $r;
?>

```

➤ **Checkbox\_frm.php**

```

<!DOCTYPE html >
<html>
<head>
<title>Untitled Document</title>
<script type="text/javascript" language="javascript">
function selection()
{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    var r=document.getElementsByName("game");

```

```
var game="";
var cat;
for(var i=0;i<r.length;i++)
{
    if(r[i].checked==true)
    {
        game+=r[i].value+" ";
    }
}
xmlhttp.open('GET','checkbox.php?checkselect='+game,true);
xmlhttp.onreadystatechange=function()
{
    if (xmlhttp.readyState==4 && xmlhttp.status==200)
    {
        document.getElementById("info").innerHTML=xmlhttp.responseText;
    }
}
xmlhttp.send();
}

</script>
</head>

<body style="margin-left:500px;">
<input type="checkbox" name="game" value="Cricket"/>Cricket<br />
<input type="checkbox" name="game" value="Football"/>Foot Ball<br />
<input type="checkbox" name="game" value="Tenis"/>Tenis<br />
<input type="button" name="g" value="Click" onclick="selection()" /><br />

<h1 id="info"></h1>
</body>
</html>
```

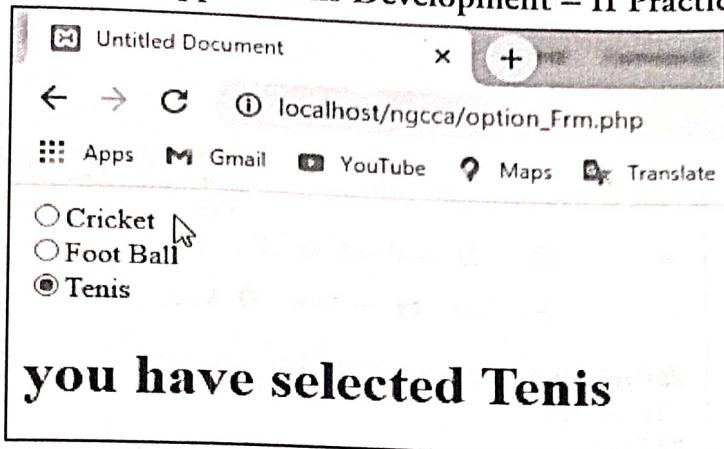


Fig 3.7 AJAX call on Radio/Option button

#### › Checkbox.php

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
</head>
<body>
<?php
$r=$_GET['checkselect'];
$str=explode(" ",$r);
for($i=0;$i<count($str);$i++)
{
    echo $str[$i]."<br>";
}
if($r=="")
{
    echo "you have not selected any item";
}
else
{
    echo "you have selected <span style=color:red;>".$r."</span>";
}
?>
```

```
</body>
</html>
```

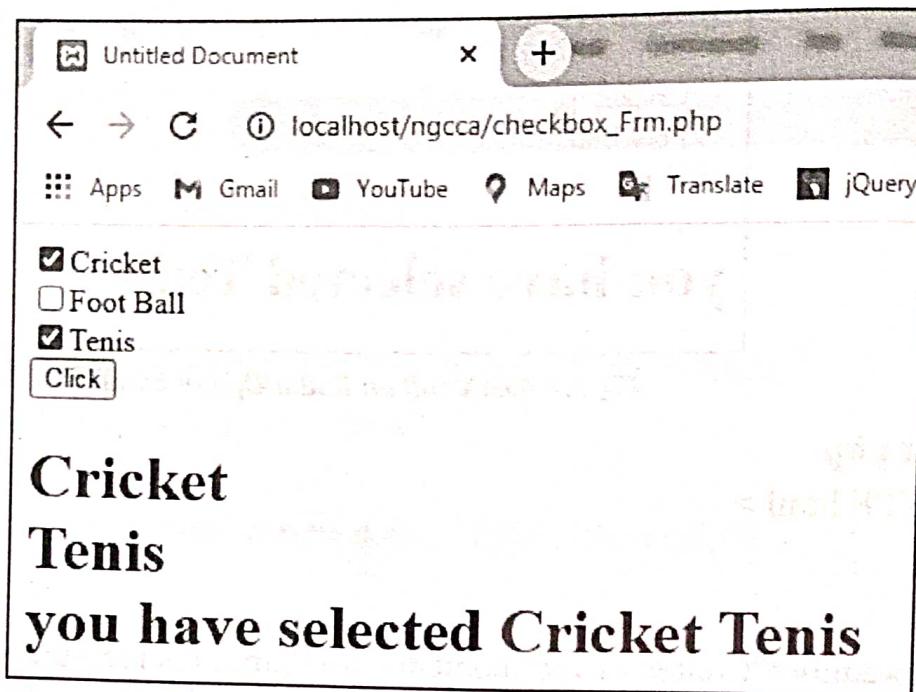


Fig. 3.8 AJAX calls on Checkbox.

6. Write a program to validate a blank field and also validate the length of the data entered (i.e. minimum length of 5).
7. Write a program to validate an Email ID using regular expression and by using DOM.

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Untitled Document</title>
<style type="text/css">
.error
{
    color:red;
    font-weight:bold;
}
</style>
<script type="text/javascript" language="javascript">
```

```

function validate()
{
    //fullname validation/
    var fullname = document.getElementById('fname').value;
    //var len=fullname.length;
    if(fullname=="")
    {
        document.getElementById('msg1').innerHTML="Please Enter First Name";
        document.getElementById('fname').style.outlineColor="red";
        document.getElementById('fname').focus();
        return false;
    }
    else
    {
        document.getElementById('msg1').innerHTML="";
    }
    //Last name Validation
    var lnm=document.getElementById("lname").value;
    if(lnm=="")
    {
        document.getElementById("msglnm").innerHTML="Please Enter Last Name";
        return false;
    }
    else
    {
        document.getElementById("msglnm").innerHTML="";
    }
    //picode validation
    var pin=document.getElementById("pin").value;
    var pinpattern=/^0-9){6}$/
    if(!pinpattern.test(pin))

```

```

        {
            document.getElementById("msgpin").innerHTML="Please enter valid
            pincode no";
            document.getElementById("msgpin").focus();
            return false;
        }
    else
    {
        document.getElementById("msgpin").innerHTML="";
    }

//Contact validation//
var patern=/^[\+][0-9\s]{4}[0-9\s]{6}[0-9]{5}$/;

var contactno = document.getElementById("cno").value;
if(!patern.test(contactno))
{
    document.getElementById('msg2').innerHTML="Please Enter Proper
    Contactno";
    document.getElementById('cno').style.outlineColor="red";
    document.getElementById('cno').focus();
    return false;
}
else
{
    document.getElementById('msg2').innerHTML="";
}

/*var len=contactno.length;
alert(len);
alert(contactno);
if(len==0)
{
    document.getElementById('msg2').innerHTML="Please Enter Contactno";
    document.getElementById('cno').style.outlineColor="red"; */
}

```

```

document.getElementById('cno').focus();
return false;

}*/



/*if(contactno=="")
{
    document.getElementById('msg2').innerHTML="Please Enter
Contactno";
    document.getElementById('cno').style.outlineColor="red";
    document.getElementById('cno').focus();
    return false;
}

//var len=contactno.length
if(len==10)
{
    document.getElementById('msg2').innerHTML="";
}
else
{
    document.getElementById('msg2').innerHTML="Please Enter Ten Digit
Number";
    document.getElementById('cno').style.outlineColor="red";
    document.getElementById('cno').focus();
    return false;
}

if(!Number(contactno))
{
    document.getElementById('msg2').innerHTML="Please Enter Numeric value
only";
    document.getElementById('cno').style.outlineColor="red";
    document.getElementById('cno').focus();
    return false;
}*/
```

```

//Email Validation
var emailpattern=/^[_a-zA-Z0-9]+@[a-z]+\.[a-z]{2,4}$/;
var emailID = document.getElementById('email').value;

if(!emailpattern.test(emailID))
{
    document.getElementById('msg3').innerHTML="Please enter correct email ID";
    document.getElementById('email').style.outline="green";
    document.getElementById('email').focus();
    return false;
}
else
{
    document.getElementById('msg3').innerHTML="";
}

/*var atpos = emailID.indexOf("@");
//alert(atpos);
var dotpos = emailID.indexOf(".");
//alert(dotpos);
if (atpos < 1 || ( dotpos - atpos < 2 ))
{
    //alert("Please enter correct email ID")
    document.getElementById('msg3').innerHTML="Please enter correct email ID";
    document.getElementById('email').style.outli
        document.getElementById('email').focus();
    return false;
}
else
{
    document.getElementById('msg3').innerHTML="";
}

```

}\*/

```

//radiobutton validation
var gr = document.getElementsByName('g');
//alert(gr);
var lan=gr.length;
//alert(lan);
var cnt=0;
var i;
//alert("counter"+cnt);
//alert("lan"+lan);
for(i=0;i<lan;i++)
{
    if(gr[i].checked==true)
    {
        //alert("counter"+cnt);
        //var g = gr[i].value;
        //alert(g)
        document.getElementById('msg4').innerHTML="";
        cnt=1;
        //alert(cnt);
        break;
    }
}
if(cnt==0)
{
    //alert("counter"+cnt);
    document.getElementById('msg4').innerHTML="Please Select atleast one
Gender";
    return false;
}

```

```
//checkbox validation
var ch = document.getElementsByName('c');
//alert(ch);
var len=ch.length;
var cnt=0;
for(var i=0;i<len;i++)
{
    if(ch[i].checked==true)
    {
        /*var val = new Array()
        val[i]=ch[i].value;
        alert(val[i]);*/
        document.getElementById('msg5').innerHTML="";
        cnt=1;
        //alert("counter"+cnt);
        //break;
    }
}
if(cnt==0)
{
    document.getElementById('msg5').innerHTML="Please Select atleast one option";
    return false;
}

//combobox validation
var sel=document.getElementById("clr").value;
//alert(sel);
if(sel=="")
{
    document.getElementById('msg6').innerHTML="Please Select atleast one option";
    return false;
}
```

```
}

else

{

    document.getElementById('msg6').innerHTML="";
}

//multiple selection in listbox validation
//combobox validation
var sel=document.getElementById("v").value;
//alert(sel);
if(sel=="")
{
    document.getElementById('msg7').innerHTML="Please Select atleast one option";
    return false;
}
else
{
    document.getElementById('msg7').innerHTML="";
}

//Date validation
var db=document.getElementById("db").value;
//alert(db);
var date= new Date();
var dd=date.getDate();
//alert(dd);
var mm=date.getMonth()+1;
//alert(mm);
var yy=date.getFullYear();
//alert(yy);
if(dd<=9)
{
    dd="0"+dd;
}
if(mm<=9)
```

```
{  
    mm="0"+mm;  
}  
var db2= yy+"-"+mm+"-"+dd;  
//alert(db2);  
  
if(db=="")  
{  
    document.getElementById('msg8').innerHTML="Please Enter Date of Birth";  
  
    document.getElementById('db').style.outlineColor="red";  
    document.getElementById('db').focus();  
    return false;  
}  
//alert(db+"#####"+db2);  
if(db>db2)  
{  
    document.getElementById('msg8').innerHTML="Date of Birth is not Greater than  
Current Date";  
  
    document.getElementById('db').style.outlineColor="red";  
    document.getElementById('db').focus();  
    return false;  
}  
else  
{  
    document.getElementById('msg8').innerHTML="";  
}  
  
//range validation  
var age=document.getElementById("rg").value;  
//alert(age);  
if(age==0)  
{  
    document.getElementById('msg9').innerHTML="Your Age must be Greaterthen Zero";  
}
```

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```
        return false;
    }
} else {
{
    document.getElementById('msg9').innerHTML="";
}
}

function getval()
{
    var age=document.getElementById("rg").value;
    document.getElementById("ans").innerHTML=age;
}

/*function can()
{
    window.open("../1.html");
}*/

</script>
</head>
<body>
<form name="registration" action="#" method="post">
<table>
    <tr>
        <td>
            First Name
        </td>
        <td>
<input type="text" name="fname" id="fname" value="" /><span id="msg1" class="error">for ex. Maulik Patel</span>
        </td>
    </tr>
    <tr>
        <td>
            Last Name
        </td>
```

```
<td>
<input type="text" name="lname" id="lname" value="" /><br /><span id="msglname"
class="error"></span>
</td>
</tr>
<tr>
<td>
    Pincode
</td>
<td>
<input type="text" name="pin" id="pin" value="" placeholder="123456"/><br /><span
id="msgpin" class="error"></span>
</td>
</tr>
<tr>
<td>
    Contactno
</td>
<td>
    <input type="text" name="cno" id="cno" value="" placeholder="+091 12345
12345"/><span id="msg2" class="error"></span>
</td>
</tr>
<tr>
<td>
    E-mail
</td>
<td>
    <input type="text" name="email" id="email" value="" placeholder="abcd@abcd.com" /><span id="msg3" class="error"></span>
</td>
</tr>
<tr>
<td>
    Gender

```

```

</td>
<td>
<input type="radio" name="g" value="male" />Male
<input type="radio" name="g" value="female" />Female</span>
</td>
</tr>
<tr>
<td>
Sports
</td>
<td>
<input type="checkbox" name="c" value="Cricket" />Cricket
<input type="checkbox" name="c" value="FootBall" />FootBall
<input type="checkbox" name="c" value="TableTenis" />TableTenis
<span id="msg5" class="error"></span>
</td>
</tr>
<!--<tr>
<td>
Colors
</td>
<td>
Red<input type="checkbox" name="color[]" id="color" value="red">
Green<input type="checkbox" name="color[]" id="color" value="green">
Blue<input type="checkbox" name="color[]" id="color" value="blue">
Cyan<input type="checkbox" name="color[]" id="color" value="cyan">
Magenta<input type="checkbox" name="color[]" id="color" value="Magenta">
Yellow<input type="checkbox" name="color[]" id="color" value="yellow">
Black<input type="checkbox" name="color[]" id="color" value="black">
</td>
</tr>-->
<tr>
<td>Color</td>

```

```

<td>
<select name="clr" id="clr">
<option value="">Please Select</option>
<option value="red">red</option>
<option value="green">green</option>
<option value="blue">blue</option>
</select><span id="msg6" class="error"></span>
</td>
</tr>
<tr>
<td>Vehicle</td>
<td>
<select name="v" id="v" size="3" multiple="multiple">
<option value="">Please Select</option>
<option value="Cycle">Cycle</option>
<option value="car">car</option>
<option value="scooter">scooter</option>
<option value="Riksha">Riksha</option>
</select><span id="msg7" class="error"></span>
</td>
</tr>
<tr>
<td>Dateof Birth</td>
<td><input type="date" id="db" value="" />
<span id="msg8" class="error"></span>
</td>
</tr>
<tr>
<td>Age</td>
<td><input type="range" id="rg" value="0" min="0" max="100" step="1"
onMouseMove="getval(); ">
<span id="msg9" class="error"></span>
<span id="ans"></span>
</td>

```

```

</tr>
<tr>
<td>&nbsp;</td>
<td>
<input type="submit" name="submit" value="Ok" onclick="return(validate());" />
<input type="button" name="cancel" value="cancel" onclick="can()"/>
</td>
</tr>

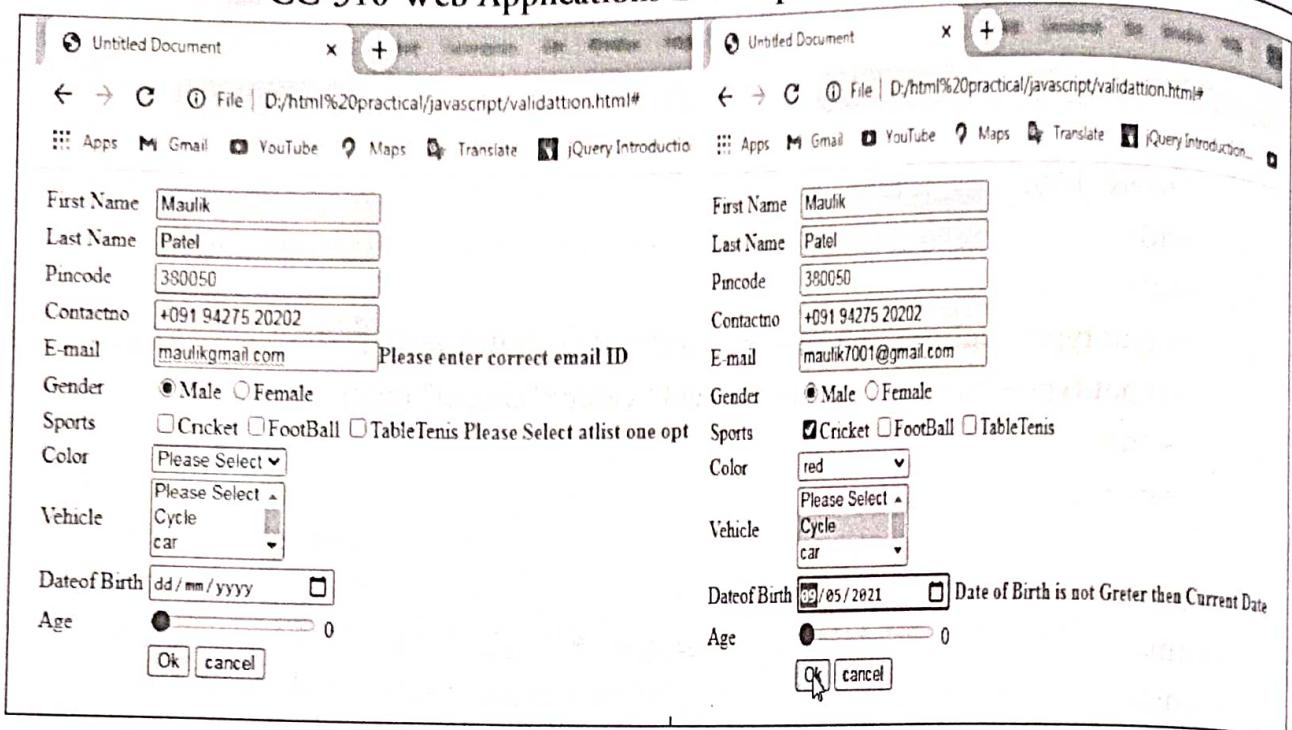
</table>
</form>
</body>
</html>

```

<b>First Name</b>	<input type="text" value="Maulik"/>
<b>Last Name</b>	<input type="text" value="Patel"/>
<b>Pincode</b>	<input type="text" value="380"/> Please enter valid pincode no
<b>Contactno</b>	<input type="text" value="+091 12345 12345"/>
<b>E-mail</b>	<input type="text" value="abcd@abcd.com"/>
<b>Gender</b>	<input type="radio"/> Male <input type="radio"/> Female
<b>Sports</b>	<input type="checkbox"/> Cricket <input type="checkbox"/> FootBall <input type="checkbox"/> TableTenis
<b>Color</b>	<input type="text" value="Please Select"/>
<b>Vehicle</b>	<input type="text" value="Please Select"/> Cycle car
<b>Dateof Birth</b>	<input type="text" value="dd/mm/yyyy"/>
<b>Age</b>	<input type="text" value="0"/>
<input type="button" value="Ok"/> <input type="button" value="cancel"/>	

<b>First Name</b>	<input type="text"/>	Please Enter First Name
<b>Last Name</b>	<input type="text"/>	
<b>Pincode</b>	<input type="text" value="380050"/>	
<b>Contactno</b>	<input type="text" value="+091 94275 20202"/>	
<b>E-mail</b>	<input type="text" value="maulik7001@gmail.com"/>	
<b>Gender</b>	<input type="radio"/> Male <input type="radio"/> Female	
<b>Sports</b>	<input type="checkbox"/> Cricket <input type="checkbox"/> FootBall <input type="checkbox"/> TableTenis	Please Select atleast one option
<b>Color</b>	<input type="text" value="Please Select"/>	
<b>Vehicle</b>	<input type="text" value="Please Select"/> Cycle car	
<b>Dateof Birth</b>	<input type="text" value="dd/mm/yyyy"/>	
<b>Age</b>	<input type="text" value="0"/>	
<input type="button" value="Ok"/> <input type="button" value="cancel"/>		



*Fig. 3.9 JavaScript Validation for emptyfield,email and length.*

- 8. Write a program that checks a particular stuId already exists in the student(stuId,stu\_name,mob,country) table or not. If stuId exists then display a message "User Already Exist. Try another stuId". If it does not exists then add the data in the student table.Implement using AJAX.**

➤ **std\_id\_varify.php**

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Untitled Document</title>
<script type="text/javascript" language="javascript">
function cancell1()
{
    document.location.href="std_id_varify.php";
    return false;
}
</script>
<script type="text/javascript" language="javascript">
```

```

function varifystdid()
{
    var xmlhttp;
    if(window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    var fname=document.getElementById("fname").value;
    var contact=document.getElementById("contact").value;
    var email=document.getElementById("email").value;
    var address=document.getElementById("address").value;
    xmlhttp.open('GET','validate_id.php?fname='+fname+'&contact='+contact+'&email='
    +email+'&address='+address,true);
    xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
        {
            document.getElementById("info").innerHTML=xmlhttp.responseText;
        }
    }
    xmlhttp.send();
}
function resetdata()
{
    document.getElementById("fname").value="";
    document.getElementById("contact").value="";
    document.getElementById("email").value="";
    document.getElementById("address").value="";
}
</script>
</head>
<body>
<input type="hidden" value="Add" name="action"/>

```

```

<table>
  <tr>
    <td>Full Name</td>
    <td><input type="text" name="fname" id="fname" value="" /></td>
  </tr>
  <tr>
    <td>Contact No.</td>
    <td><input type="text" name="contact" id="contact" value="" /></td>
  </tr>
  <tr>
    <td>Email</td>
    <td><input type="text" id="email" name="email" value="" /></td>
  </tr>
  <tr>
    <td>Address</td>
    <td><textarea name="address" id="address"></textarea></td>
  </tr>
  <tr>
    <td><input type="submit" name="submit" value="Submit" onClick="varifystdid();"/></td>
    <td><input type="reset" value="reset" name="reset" onClick="resetdata();"/></td>
    <td><input type="button" value="cancel" name="cancel" onclick="cancel1();"/></td>
  </tr>
</table>
<span id="info" style="color:red;font-size:24px;"></span>
</body>
</html>

```

➤ **validate\_id.php**

```

<!doctype html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Untitled Document</title>
  </head>

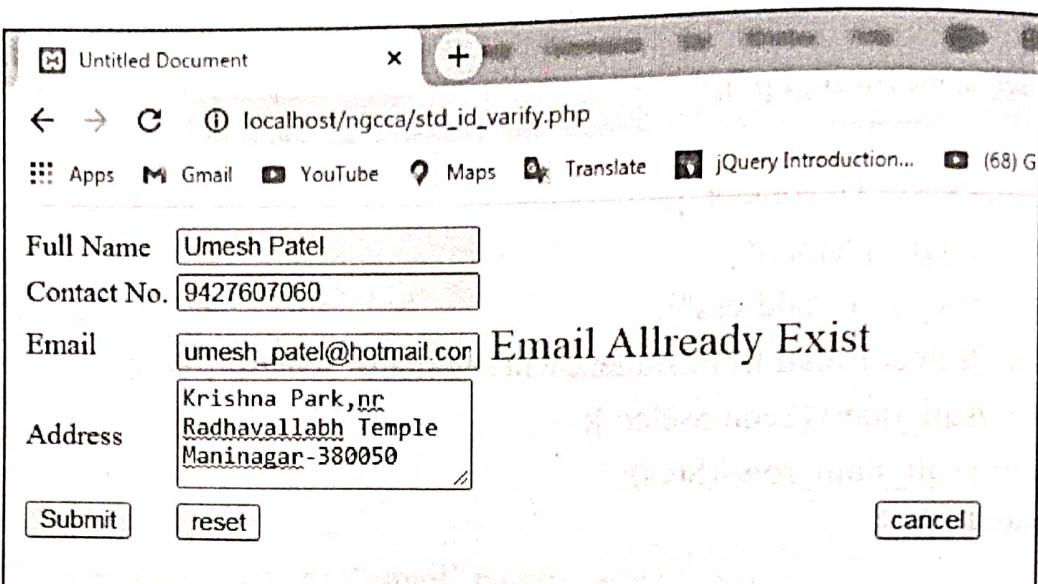
```

---

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---

```
<body>
<?php
include("conection.php");
$name=$_GET["fname"];
$contact=$_GET["contact"];
$email=$_GET["email"];
$address=$_GET["address"];
$select="select Email from student where Email='".$email."'";
$res=mysqli_query($con,$select);
$row=mysqli_num_rows($res);
if($row>0)
{
    echo "$email Allready Exist";
}
else
{
    $q="insert into student(Stud_id,FullName,Contactno,Email,Address) values
    ('','".$name."','".$contact."','".$email."','".$address."')";
    $in=mysqli_query($con,$q);
    if($in)
    {
        header("Location:index.php?msg=Record Inserted Successfully...!");
    }
}
?>
</body>
</html>
```



The screenshot shows a browser window with the URL `localhost/ngcca/std_id_verify.php`. The form fields are filled as follows:

- Full Name: Umesh Patel
- Contact No.: 9427607060
- Email: umesh\_patel@hotmail.com
- Address: Krishna Park, nr Radhavallabh Temple Maninagar - 380050

An error message "Email Allready Exist" is displayed next to the Email field.


The screenshot shows a browser window with the URL `localhost / 127.0.0.1 / ngcca / std_id_verify.php?action=Add&fname=Umesh+Patel&contact=9909980745&email=umesh_patel%40hotmail.com&address=Mehta+Complex,+Jawaharchanck,+Maninagar,+Ahmedabad,+Gujarat,+India+380050`. The form fields are identical to the previous screenshot. Below the form, a message "Record Inserted Successfully..." is displayed. A table below shows the inserted data:

Record	Name	Contact	Email	Address
1	Diya M Patel	9427607060	diya192@gmail.com	New Maninagar
2	Diya M Patel	9427607060	diya192@gmail.com	Ghodasar,Ahmedabad
3	Hima M Patel	9909980745	maulik_1984@yahoo.co.in	Sector-21
4	Akash Patel	9909980745	akash12@ymail.co.in	Mehta Complex,Jawaharchanck,Maninagar
5	Umesh Patel	9909980745	umesh_patel@hotmail.com	Kamtu,Ahmedabad
6	Payal M Patel	9909980745	payal1985@gmail.com	Vasana Ahmedabad
7	Manushree H Patel	9427607060	manushree123@ymail.com	Melita Complex,Jawaharchanck,Maninagar
8	Umesh Patel	9909980745	umesh123_patel@hotmail.com	Vasana Ahmedabad
9	Vrunda U Patel	9427607060	vrunda.patel@gmail.com	Maninagar,Ahmedabad
10	Miten B Bhavasai	9909980745	mibbhavasai@gmail.com	Krishna Park,Nr Radhavallabh Temple,Maninagar-380050
11	Umesh Patel	9427607060	umesh1959@hotmail.com	

**Fig 3.10 Email ID verification using AJAX**

