Amit

Javascript Validation

```html
<!DOCTYPE html>
<html>
<head>
  <title>Register Here</title>
</head>
<link rel="stylesheet" type="text/css" href="style1.css">
<body>
  <h1 id="main_title">TECH FEST 2020</h1>
  <h4 style="color: white;text-
align: center;">Please fill out details to complete registration</h4>

  <div class="form">
<label class="form_c">Name     :</label>
<input id="lett" required style="margin-left: 150px;">
<p class="rq">*Enter alphabets only.</p>
<p id="error1" class="rq"></p>


<label required style="color: white;font-size: 23px;">Gender:</label>
  <input type="radio" name="gender" style="margin-
left: 140px;"><font  style="color: white;font-
size: 23px;">Male    </font><input type="radio" name="gender" ><font style="color:
 white;font-size: 23px;">Female</font><br><br>


<label class="form_c">College Name  :</label>
<input id="lett" required style="margin-left: 75px;">
<p class="rq">*Enter alphabets only.</p>

<label class="form_c">Contact:</label>
<input id="numb" required style="margin-left: 140px;">
<p id="error" class="rq"></p>

<label class="form_c">Course/Programme:</label>

<select name="cars" required style="margin-left: 33px;">
  <option value="">Btech CSE</option>
  <option value="">Btech ECE</option>
  <option value="">Software Engineering</option>
  <option value="">Commerce</option>
</select><br><br>

<label class="form_c">Email ID:</label>
```

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```html
<input id="numb" required style="margin-left: 127px;"><br><br><br>


<button type="button" id="button" onclick="myFunction()">Submit</button>
  </div>


<script>
function myFunction() {
  var x, text;

  // Get the value of the input field with id="numb"
  x = document.getElementById("numb").value;

  // If x is Not a Number or less than one or greater than 10
  if (isNaN(x) || x.length == 10) {
    text = "Valid";
  } else {
    text = "Please enter valid contact number";
  }
  document.getElementById("error").innerHTML = text;
  var letters = /^[A-Za-z]+$/;
  var y, text;
  y = document.getElementById("lett").value;
    if(y.match(letters))
    {
    text1='Your name have accepted : you can try another';
    } else {
    text1='Please input alphabet characters only';
    }
      document.getElementById("error1").innerHTML = text1;
}


// function ValidateEmail(mail)
// {
//  if (/^[a-zA-Z0-9.!#$%&'*+/=?^_`{|}~-]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-
]+)*$/.test(myForm.emailAddr.value))
//   {
//    return (true)
//   }
//    alert("You have entered an invalid email address!")
//    return (false)
// }
</script>
```

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

Javascript Captcha

```html
<!DOCTYPE html>

<html>

<head>
    <title>Captcha</title>
</head>
<body onload="getCaptcha()">
    <table style="border: 2px solid black;">
        <tr>
            <td>Captcha</td>
            <td>
                <canvas width="220px" height="60px" style="border: 2px solid grey" id="canvas"></canvas>
            </td>
            <td>
                <button type="button" onclick="getCaptcha()">Refresh</button>
            </td>
        </tr>
        <tr>
            <td>Enter Captcha</td>
            <td><input type="text" size="30" id="typedText"></td>
            <td><button onclick="checkIt()">Check</button></td>
        </tr>
    </table>

<script>
    function getRandIndex(maxLength) {
        // body...
        return Math.floor(Math.random()*maxLength);
    }
    var data;
    function getCaptcha() {
        // body...
        var cancas=document.getElementById('canvas');
        var pen=canvas.getContext('2d');
        var captch = Math.random().toString(36).substring(2,8);
        pen.font = "30px Georgia";
        pen.fillStyle = "grey";
        pen.fillRect(0,0,400,400);
```

```javascript
        pen.fillStyle="orange";
        maxLength=captch.length;
        index1 = getRandIndex(maxLength);
        index2 = getRandIndex(maxLength);

        captch = captch.substring(0,index1-
1)+captch[index1].toUpperCase()+captch.substring(index1+1,maxLength);
        captch = captch.substring(0,index2-
1)+captch[index2].toUpperCase()+captch.substring(index2+1,maxLength);
        data=captch;
        captch=captch.split('').join(' ');
        pen.fillText(captch, 40,40);
    }

    function checkIt() {
        // body...
        typedData = document.getElementById('typedText').value;
        if (typedData==data) {
            alert('Correct');
            getCaptcha();
            document.getElementById('typedText').value="";
        }
        else{
            alert("Incorrect CaptchaTry Again");
            getCaptcha();
        }
    }
</script>

</body>
</html>
```

Database connectivity and php

```php
<?php
define('DB_SERVER','localhost');
define('DB_USER','root');
define('DB_PASS' ,'');
define('DB_NAME','university');
$con = mysqli_connect(DB_SERVER,DB_USER,DB_PASS,DB_NAME);
// Check connection
if (mysqli_connect_errno())
{
 echo "Failed to connect to MySQL: " . mysqli_connect_error();
```

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```
}
?>
```

Display Table in PHP

```php
<?php
include('config.php');
?>
<html>
<body>
    <table align="center" border="1px" style="width: 1350px;line-
height: 40px;background-color: #ccffe6;" cellspacing ="2px">
        <t>
            <th> Semester </th>
            <th> Subject </th>
            <th> Cat </th>
            <th>Marks</th>
        </t>
        <?php
        $reg=$_POST['user1'];
        $query="select * from marks_table where regno='$reg'";
$result=mysqli_query($con,$query);
        error_reporting(0);
        while ($rows=mysqli_fetch_assoc($result)) {
        ?>
        <tr>
            <td><?php echo $rows['sem']; ?></td>
            <td><?php echo $rows['subject']; ?></td>
            <td><?php echo $rows['cat']; ?></td>
            <td><?php echo $rows['marks']; ?></td>
        </tr>
        <?php
        }
        ?>
    </table>
</body>
</html>
```

Login in php

```php
<?php
include('config.php');
session_start();
if(isset($_POST['reg'])){
$reg=$_POST['reg'];
$pass=$_POST['pass'];
}

$sql="select * from student_info where regno='$reg' and password='$pass'";
$result=mysqli_query($con,$sql);
if(!$row=mysqli_fetch_assoc($result)){
    echo "error";
}else{
    $sql="select name from student_info where regno='$reg'";
$result=mysqli_query($con,$sql);
$row=mysqli_fetch_array($result);
    $_SESSION['name']=$row['name'];
    header("Location: student_home.php");
}

?>
```

Session

```php
<?php
include('config.php');
session_start();
if(isset($_SESSION['name'])){

?>

<html>
<title>Home Page</title>
</head>
<body>

<h1 style="background-color: #33ff33;color: white;margin-top: -
3px;">    Welcome <?php echo $_SESSION['name']?> </h1>
<h4>Login Successful</h4>
<form action="logout.php" method="POST">
    <input type="submit" value="logout" >
</form>
```

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```php
    <table align="center" border="1.5px" style="width: 550px;line-height: 40px;background-color: lightyellow;text-align: center;" cellspacing ="2px">
        <?php
        $un=$_SESSION['name'];
        $query="select * from student_info where name='$un'";
        $result=mysqli_query($con,$query);
        $row=mysqli_fetch_assoc($result);
            ?>
            <tr>
                <td>Registration Number</td>
                <td><?php echo $row['regno']; ?></td>
            </tr>
            <tr>
                <td>Name</td>
                <td><?php echo $_SESSION['name']; ?></td>
            </tr>
            <tr>
                <td>Course</td>
                <td><?php echo $row['course']; ?></td>
            </tr>
            <tr>
                <td>Address</td>
                <td><?php echo $row['add']; ?></td>
            </tr>

    </table>

<?php
mysqli_close($con);
    }
else{
        echo '<h3>'."You have been logged out! Please login again!".'</h3><br>';
    /*header('Refresh: 5; URL=index.php');*/
}
?>
<script>
</script>
</html>
```

Logout.php

```php
<?php
session_start();
```

```php
session_unset();
session_destroy();
header("Location: index.php");


?
```

PHP filters

```php
<?php
if(isset($_POST['Submit'])){

  $emp_name=trim($_POST["emp_name"]);
  $emp_number=trim($_POST["emp_number"]);
  $emp_email=trim($_POST["emp_email"]);

  if($emp_name =="") {
    $errorMsg=  "error : You did not enter a name.";
    $code= "1" ;
  }
  elseif($emp_number == "") {
    $errorMsg=  "error : Please enter number.";
    $code= "2";
  }
  //check if the number field is numeric
  elseif(is_numeric(trim($emp_number)) == false){
    $errorMsg=  "error : Please enter numeric value.";
    $code= "2";
  }
  elseif(strlen($emp_number)<10){
    $errorMsg=  "error : Number should be ten digits.";
    $code= "2";
  }
  //check if email field is empty
  elseif($emp_email == ""){
    $errorMsg=  "error : You did not enter a email.";
    $code= "3";
} //check for valid email
elseif(!preg_match("/^[_\.0-9a-zA-Z-]+@([0-9a-zA-Z][0-9a-zA-Z-]+\.)+[a-zA-Z]{2,6}$/i", $emp_email)){
  $errorMsg= 'error : You did not enter a valid email.';
  $code= "3";
}
else{
  echo "Success";
  //final code will execute here.
}

}
?>
```

PHP operations

```html
<!DOCTYPE html>

<html>

<body>

  <form method="post">

  <h4><b>Enter 1st Value</b></h4>

    <input type="text" name="one" id="one" class="form-control" placeholder="1st Digit">

    <br >

  <h4><b>Enter 2nd Value </b></h4>

    <input type="text" name="two" id="two" class="form-control" placeholder="2nd Digit">

    <br /><br />

    <input type="submit" name="submit">

  </form>

  <h4><b>Result:</b></h4>

  <br >

   <?php

   if(isset($_POST['submit'])){

     $sum=0;

     $one=$_POST['one'];

     $two=$_POST['two'];

      //echo $one;

     $sum=$one+$two;

     echo $sum; }

     ?>

</body>
```

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</html>

JSP

Index.jsp

```
<html>
<body>
<%! int data=50; %>
<%= "Value of the variable is:"+data %>
</body>
</html>
```

Method

```
<%!
public int calculate(int x, int y, JspWriter jw, HttpServletRequest r1) throws Exception
{
jw.println("Hello 1");
String clientName = r1.getParameter("t1");
return x * y;
}
%>
<%
int k = calculate(10, 20, out, request);
out.println(k);
%>
```

JSP forms

```
<html>
<body>
 <form action="first.jsp" method ="get">
 first number<input type="text" name="n1"><br>
```

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```jsp
 Second number<input type="text" name="n2"><br>

 <input type="submit" name="s1">
 </form>
 <%
String n1 = request.getParameter("n1");
String n2 = request.getParameter("n2");
int i1 = Integer.parseInt(n1);
int i2 = Integer.parseInt(n2);
int i3 = i1+i2;
%>

 Result<input type="text" name="n3" value =<%=i3 %>>
</body>
</html>
```

XML

```xml
<?xml version = "1.0" encoding="UTF-8" standalone="yes"?>
<document>
  <employee>
    <name>
      <lastname>Kelly</lastname>
      <firstname>Grace</firstname>
    </name>
    <hiredate>October 15, 2005</hiredate>
    <projects>
      <project>
        <product>Printer</product>
        <id>111</id>
        <price>$111.00</price>
      </project>
      <project>
        <product>Laptop</product>
        <id>222</id>
        <price>$989.00</price>
      </project>
    </projects>
  </employee>
  <employee>
    <name>
      <lastname>Grant</lastname>
      <firstname>Cary</firstname>
    </name>
    <hiredate>October 20, 2005</hiredate>
    <projects>
      <project>
        <product>Desktop</product>
        <id>333</id>
        <price>$2995.00</price>
      </project>
      <project>
        <product>Scanner</product>
        <id>444</id>
        <price>$200.00</price>
```

Amit

```
      </project>
    </projects>
  </employee>
</document>
```

xml

1. <menu id="file" value="File">
2. <popup>
3.   <menuitem value="New" onclick="CreateDoc()" />
4.   <menuitem value="Open" onclick="OpenDoc()" />
5.   <menuitem value="Save" onclick="SaveDoc()" />
6. </popup>
7. </menu>

JSON

1. {"menu": {
2. "id": "file",
3. "value": "File",
4. "popup": {
5.   "menuitem": [
6.   {"value": "New", "onclick": "CreateDoc()"},
7.   {"value": "Open", "onclick": "OpenDoc()"},
8.   {"value": "Save", "onclick": "SaveDoc()"}
9.   ]
10. }
11. }}

Forms

```html
<form>
    <table>
        <tr>
            <td>
                <label for="uname">Name</label>
            </td>
            <td>
                <input type="text" id="uname" name="username">
            </td>
        </tr>
        <tr>
            <td>
                <label for="uemail">Email</label>
            </td>
```

```
        <td>
            <input type="text" id="uemail" name="usermail">
            <button type="button">Check</button>
        </td>
    </tr>
    <tr>
        <td>
            <label for="age">Age</label>
        </td>
        <td>
            <input type="text" name="userage" id="age" size="2"
maxlength="2">
        </td>
    </tr>
    <tr>
        <td>
            <label>Country</label>
        </td>
        <td>
            <input type="text" value="India" name="country" disabled>
        </td>
    </tr>
    <tr>
        <td>
                <label for="pass">Password</label>
        </td>
        <td>
                <input type="password" id="pass">
        </td>
    </tr>
    <tr>
        <td>
            <label for="res">Resume</label>
        </td>
        <td>
            <input type="file" id="res">
        </td>
    </tr>
    <tr>
        <td>
            <label>Hobbies</label>
        </td>
        <td>
            <label>
                <input type="checkbox" checked> Cricket
            </label>
            <label>
                <input type="checkbox"> Football
            </label>
        </td>
    </tr>
    <tr>
        <td>
            <label>Gender</label>
        </td>
        <td>
            <label>
```

```
                    <input type="radio" value="f" name="gender">
Female</label>
                    <label>
                    <input value="m" type="radio" name="gender"> Male</label>
            </td>
        </tr>
        <tr>
            <td>
                    <label for="city">City</label>
            </td>
            <td>

                    <select id="city" name="city">
                        <option disabled selected>--Choose City--</option>
                            <optgroup label="Metros">
                                <option>New Delhi</option>
                                <option>Mumbai</option>
                                <option>Channai</option>
                                <option>Kolkata</option>
                            </optgroup>
                            <optgroup label="Others">
                                <option>Noida</option>
                                <option>Gurgram</option>
                                <option>Faridabad</option>
                                <option>Gaziabad</option>
                            </optgroup>
                    </select>
            </td>
        </tr>
        <tr>
            <td>
                <label>Address</label>
            </td>
            <td>
                <textarea rows="4" cols="40"></textarea>
            </td>
        </tr>
        <tr>
            <td></td>
            <td>
                <input type="submit" value="Submit">
                <input type="reset">
            </td>
        </tr>
    </table>
</form>
```

JS Validation

```
<!DOCTYPE html>
<html>
<head>
<script>
function validateForm() {
  var x = document.forms["myForm"]["fname"].value;
  if (x == "") {
    alert("Name must be filled out");
    return false;
  }
```

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```
}
</script>
</head>
<body>

<form name="myForm" action="/action_page.php" onsubmit="return
validateForm()" method="post">
  Name: <input type="text" name="fname">
  <input type="submit" value="Submit">
</form>

</body>
</html>
```

JS Email Check

```
function trim(s) // Trims spaces
{
return s.replace(/^\s+|\s+$/, '');
}
function validEmail(fd)
{
var error="";
var tfd = trim(fd.value);                        // Calling the trim Function
var email_filter = /^[^@]+@[^@.]+\.[^@]*\w\w$/ ; // Valid Email address
Regular Expression
var illegalChars= /[\(\)\<\>\,\;\:\\\"\[\]]/ ; // Invalid input for the email
address
if (fd.value == "")
{
fd.style.background = 'Red';
error = "Field Cannot be Blank.\n";
}
else if (!email_Filter.test(tfd)) //Illegal Characters check
{
fd.style.background = 'Red';
error = "Enter valid Email \n";
}
else if (fd.value.match(illegalChars)) // Checks for illegal characters
{
fd.style.background = 'Red';
error = "Illegal Characters Present.\n";
}
else
{
fd.style.background = 'White';
}
return error;
}
```

JS Phone check

```
function validPhone(fd)
```

Amit

```
{
var error_message = "";
var strip = fd.value.replace(/[\(\)\.\-\ ]/g, '');    //Regular expression for
illegal character check
if (fd.value == "")
{
error_message = "Field cannot be Blank.Enter a phone number.\n";
fd.style.background = 'Red';
}
else if (isNaN(parseInt(strip)))
{
error_message = " Illegal characters cannot be Present.\n";
fd.style.background = 'Red';
}
else if (!(strip.length == 10))
{
error = "Enter the valid Phone Number.\n";
fd.style.background = 'Red';
}
return error;
}
```