15B17CI372 Database Systems and Web Lab ODD2024

Lab 2: JavaScript Form Validation

[CO1]

JavaScript Form Validation Example 1

In this example, we are going to validate the name and password. The name can't be empty and password can't be less than 6 characters long.

Here, we are validating the form on form submit. The user will not be forwarded to the next page until given values are correct.

```
<html>

<body>

<script>

function validateform(){

var name=document.myform.name.value;

var password=document.myform.password.value;

if (name==null || name==""){

  alert("Name can't be blank");

  return false;

}else if(password.length<6){

  alert("Password must be at least 6 characters long.");

  return false;

 }

}

</script>
```

```
<body>

<form name="myform" method="post"
action="http://www.javatpoint.com/javascriptpages/valid.jsp" onsubmit="return validateform()"
>

Name: <input type="text" name="name"><br/>

Password: <input type="password" name="password"><br/>

<input type="submit" value="register">

</form>

</body>

</html>
```

JavaScript Retype Password Validation Example 2

```
<!DOCTYPE html>

<html>

<head>

<script type="text/javascript">

function matchpass(){

var firstpassword=document.f1.password.value;

var secondpassword=document.f1.password2.value;

if(firstpassword==secondpassword){

return true;

}

else{

alert("password must be same!");

return false;
```

}

}

</script>

</head>

<body>

<form name="f1" action="http://www.javatpoint.com/javascriptpages/valid.jsp" onsubmit="return matchpass()">

Password:<input type="password" name="password" />

Re-enter Password:<input type="password" name="password2"/>

<input type="submit">

</form>

JavaScript Form Validation Example 3

Save the following html code "Example.html" and run it

```
<html>
  <head>
    <title>Form Validation</title>
    <script type = "text/javascript">
      <!--
        // Form validation code will come here.
      //-->
    </script>
  </head>

  <body>
    <form action = "/cgi-bin/test.cgi" name = "myForm" onsubmit = "return(validate());">
      <table cellspacing = "2" cellpadding = "2" border = "1">

        <tr>
          <td align = "right">Name</td>
          <td><input type = "text" name = "Name" /></td>
        </tr>

        <tr>
```

```html
          <td align = "right">EMail</td>
          <td><input type = "text" name = "EMail" /></td>
        </tr>

        <tr>
          <td align = "right">Zip Code</td>
          <td><input type = "text" name = "Zip" /></td>
        </tr>

        <tr>
          <td align = "right">Country</td>
          <td>
            <select name = "Country">
              <option value = "-1" selected>[choose yours]</option>
              <option value = "1">USA</option>
              <option value = "2">UK</option>
              <option value = "3">INDIA</option>
            </select>
          </td>
        </tr>

        <tr>
          <td align = "right"></td>
          <td><input type = "submit" value = "Submit" /></td>
        </tr>

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

Form validation code

```javascript
<script type = "text/javascript">
  <!--
    // Form validation code will come here.
    function validate() {

      if( document.myForm.Name.value == "" ) {
        alert( "Please provide your name!" );
        document.myForm.Name.focus() ;
        return false;
      }
      if( document.myForm.EMail.value == "" ) {
        alert( "Please provide your Email!" );
```
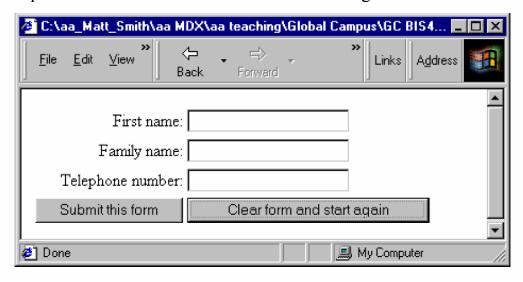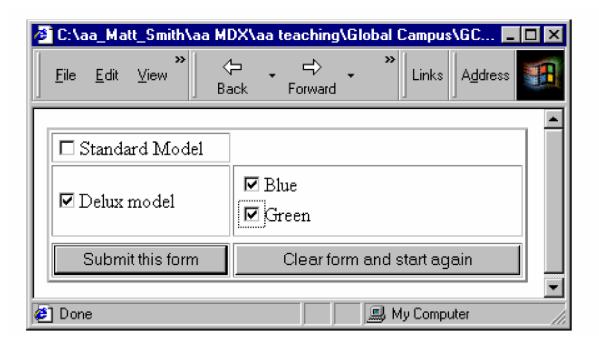
```
        document.myForm.EMail.focus() ;
        return false;
    }
    if( document.myForm.Zip.value == "" || isNaN( document.myForm.Zip.value ) ||
        document.myForm.Zip.value.length != 5 ) {

        alert( "Please provide a zip in the format #####." );
        document.myForm.Zip.focus() ;
        return false;
    }
    if( document.myForm.Country.value == "-1" ) {
        alert( "Please provide your country!" );
        return false;
    }
    return( true );
    }
  //-->
</script>
```

Assignment: (To be Submitted)

Q1. Create a Form as shown below:
created the function to validate fields
- the value for the firstname to be non-empty and it's length to be < 20 characters long
- the value for lastname to be non-empty and it's length to be < 30 characters long
-the telephone number should be numeric and its length to be =10

Q2. The form shown below has an invalid combination of choices, and this can be picked up by a validation function

The form defines three rows. The first row displays the Standard Model check box. The second row has two columns: the first contains the Deluxe model checkbox, and the second contains two colour check boxes (in a table of their own). The final row offers the submit and clear buttons

On attempting to submit the form, the user is shown the following message:

Q3. BMI Calculator : Create a Body Mass Index (BMI) calculator that allows users to input their height and weight to calculate their BMI. Then, perform the BMI calculation based on the input values and display the result on the webpage. Additionally, consider including features such as different unit options and providing a BMI classification based on the calculated value.

Q4. **create a to-do app or web page** through **JavaScript, HTML, and CSS.** You can practice adding, editing, and deleting elements while allowing the user to mark a task as finished.

Q5. Creating a well-designed and professional resume **using HTML CSS and JavaScript**

- **Create an HTML form with input fields for resume information.**
- **Use JavaScript to toggle between the input form and resume preview.**
- **Retrieve user input from the form and dynamically populate the preview.**
- **Style the elements using CSS for the desired layout and design.**

Q6. Create a dynamic report card using HTML, CSS and JavaScript

- **Create a from to enter the name and maks of four subjects. Add a button to create report.**

- **By clicking on this button a report card should be generated showing the name of the student, marks in four subjects, Total average and pass or Fail.**

- **If the average score is greater than 70 then the status is "pass" otherwise the status is "fail".**

Q7. Write HTML and JavaScript code for registration form with all the validations mentioned below:

Registration Form

User id:	Required and must be of length 5 to 12.
Password:	Required and must be of length 7 to 12.
Name:	Required and alphabates only.
Address:	Optional.
Country:	(Please select a country) ▾ Required. Must select a country.
ZIP Code:	Required. Must be numeric only.
Email:	Required. Must be a valid email.
Sex:	○ Male ○ Female Required.
Language:	☑ English ☐ Non English Required.
About:	Optional.

Submit