Experiment No.4

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Title:

Write a program to design registration form for students by using HTML, CSS, JavaScript and perform following validations: all fields mandatory, phone number and email address validation.

Theory:

JavaScript is a programming language of HTML as well as web. It is preferred for creating network-centric applications. It is integrated and complimentary with Java. As JavaScript is integrated with HTML it is very easy to implement. It is open as well as cross-platform.

Advantages:

The advantages of using JavaScript are:

- It requires less server interaction
- Immediate feedback to the visitors
- Increased interactivity
- Richer interfaces Validation:

When client enters all the necessary data and presses the submit button, form validation is done at server side. If data entered by a client is incorrect or missing, the server needs to send all data back to the client and request for resubmission of form with correct information. This is really a lengthy process which puts a lot of load on the server.

So, JavaScript provides a way to validate form's data on the client's side itself before sending it to the web server. Form validation performs two functions:

- 1. Basic Validation: First of all the form must be checked up to make sure all the mandatory fields are filled in. It would require just a loop through each field in the form and check for the data.
- 2. Data Format Validation: Secondly, the data that is entered must be checked for correct format and its value. The code must include appropriate logic to test correctness of data.

Program:

HTML code:

```
80"><input type="text" name="uname"
placeholder="Enter your username"></div>
        </div>
        <div class="row">
          <div class="col-20"><label>Password:</label></div>
          <div class="col-80"><input type="password" name="upwd"</pre>
placeholder="Enter your password"></div>
        </div>
        <div class="row">
          <div class="col-20"><label>Confirm Password:</label></div>
          <div class="col-80"><input type="password" name="cupwd"</pre>
placeholder="Enter your password"></div>
        </div>
        <div class="row">
          <div class="col-20"><label>Firstname:</label></div>
          <div class="col-80"><input type="text" name="fname"</pre>
placeholder="Enter your firstname"></div>
        </div>
        <div class="row">
          <div class="col-20"><label>Lastname:</label></div>
          <div class="col-80"><input type="text" name="Iname"</pre>
placeholder="Enter your lastname"></div>
        </div>
        <div class="row">
```

<div class="col-

```
<div class="col-
                        20"><label>Gender:</label></div>
          <div class="col-80">
            <input type="radio" name="gender" value="Male">Male
            <input type="radio" name="gender" value="Female">Female
          </div>
        </div>
        <div class="row">
          <div class="col-20"><label>Email:</label></div>
          <div class="col-80"><input type="text" name="uemail"</pre>
placeholder="Enter your email id"></div>
        </div>
        <div class="row">
          <div class="col-20"><label>Course:</label></div>
          <div class="col-80"><select name="ucourse">
            <option>Select Class
            <option>SE COMP</option>
            <option>TE COMP</option>
            <option>BE COMP</option>
            </select></div>
        </div>
        <div class="row">
```

```
<div class="col-
          <div class="col-20"><label>Mobile No.:</label></div> 80"><input
type="text" name="umno"
placeholder="Enter your mobile number"></div>
        </div>
        <div class="row">
          <input type="submit" value="Submit" onclick="return validate();">
          <input type="reset" value="Reset">
        </div>
      </form>
    </div>
  </body>
  <script src="validation.js"></script>
</html>
CSS code:
*{ box-sizing: borderbox;
}
.container{ background-color:
aquamarine; border:1px solid red; border-radius:
5px;
      padding:
10px; width: 80%; margin:
auto;
```

```
}
.row:after{    content:
""; display: table;
clear: both;
}
.col-20{ width: 20%;
float:left; margintop:
5рх;
}
.col-80{ width: 80%;
float:left; margintop:
5px;
}
input[type=text],input[type=password],input[type=email]{     width:
        padding:5px;
100%;
}
.login{ width: 45%; margin:
auto; border: 1px solid red;
border-radius: 5px;
```

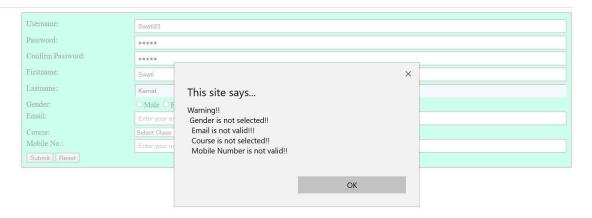
```
padding: 10px; backgroundcolor:
bisque;
}
input[type=submit],input[type="reset"]{ cursor:
  pointer;
}
.leavespace{ margintop:20px;
}
JavaScript code: function validate(){    var uname
= stdreg.uname.value; var upwd =
stdreg.upwd.value;
                    var cupwd =
stdreg.cupwd.value; var fname =
stdreg.fname.value; var lname =
stdreg.lname.value;
                     var uemail =
stdreg.uemail.value; var ucourse =
stdreg.ucourse.selectedIndex; var umobno
= stdreg.umno.value;
                      var flag = false; var str = ""; var efilter = /^([a-zAZO-
9\\.\-])+\@(([a-zAZ0-9\-])+\.)+([a-zA-Z0-9]{2,4})+$/; if(uname.trim()===""){
             str +=" Username should not be blank!!\n"; }
flag=true;
```

```
if(upwd.trim()===""&&cupwd.trim()===""||upwd!=cupwd){
                                                                flag=true;
str +=" Password is Blank or Does not Match!!\n";
  }
  if(fname.trim()===""){
                            flag = true;
                                             str
+= " Firstname should not be blank!!\n";
  }
  if(Iname.trim()===""){
                            flag=true;
                                           str
+= " Lastname should not be blank!!\n";
  }
  if(stdreg.gender[0].checked==false&&stdreg.gender[1].checked==false){
                  str +=" Gender is not
    flag=true;
selected!!\n";
  }
  if(!efilter.test(uemail)){
                             flag=true;
str +=" Email is not valid!!!\n";
  }
  if(ucourse==0){
                      flag=true;
                                     str+="
Course is not selected!!\n";
  }
  if(isNaN(umobno)||umobno.length<12){
```

```
flag = true; str+=" Mobile Number is not
valid!!\n";
} if(flag){
alert("Warning!!\n"+str); return false;
} else{
return true;
}
}
```

Output:

Registration Form



Conclusion:

We designed a registration form for students using HTML, CSS and JavaScript and performed validtaions.