

Practical no: 4

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

Name: Aditi Dinesh Mulay

Class: T.E. Computer

Subject: Web Technology

Div: A

Roll no: 02

PRN No. 71918146B

WT

Practical 4

Aditi Dinesh Mulay
T.E. comp. Div: A
Roll no: 02

Title - HTML, script Javascript

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

Theory Concept:

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 of using JavaScript are-

- 1) It requires less server interaction.
- 2) Immediate feedback to the visitors.
- 3) Increased interactivity.
- 4) Richer interfaces.

* Validation:

When client enters the all necessary data and press 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. It performs two functions:

1) Basic Validation - First of all the form must be checked 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 is entered must be checked for correct format and its value. The code must include appropriate logic to test correctness of data.

* Technology / Tool

JavaScript can be implemented using Javascript statements that are placed within the `<script>`. You can place the `<script>` tags, containing your Javascript anywhere within your web page, but is normally recommended that you should keep it within `<head>` tags. Script tag takes two imp attributes:

1) Language: The attribute specifies what scripting language you are using. Typically, its value will be Javascript. Although recent versions of HTML have phased out the use of this attribute.

2) Type - This attribute is what is now recommended to indicate the scripting language in use and its value should be set to "text/javascript".

* Design / Execution steps:

Following steps are used to create and Execute web applications.

- 1) Write an HTML code in notepad and save with .html.
- 2) Write the function for validation of email id and phone no. and enclosed this function in script.
- 3) Call this function on 'onclick' event of submit button.
- 4) Open HTML page in the browser.

* Test Cases

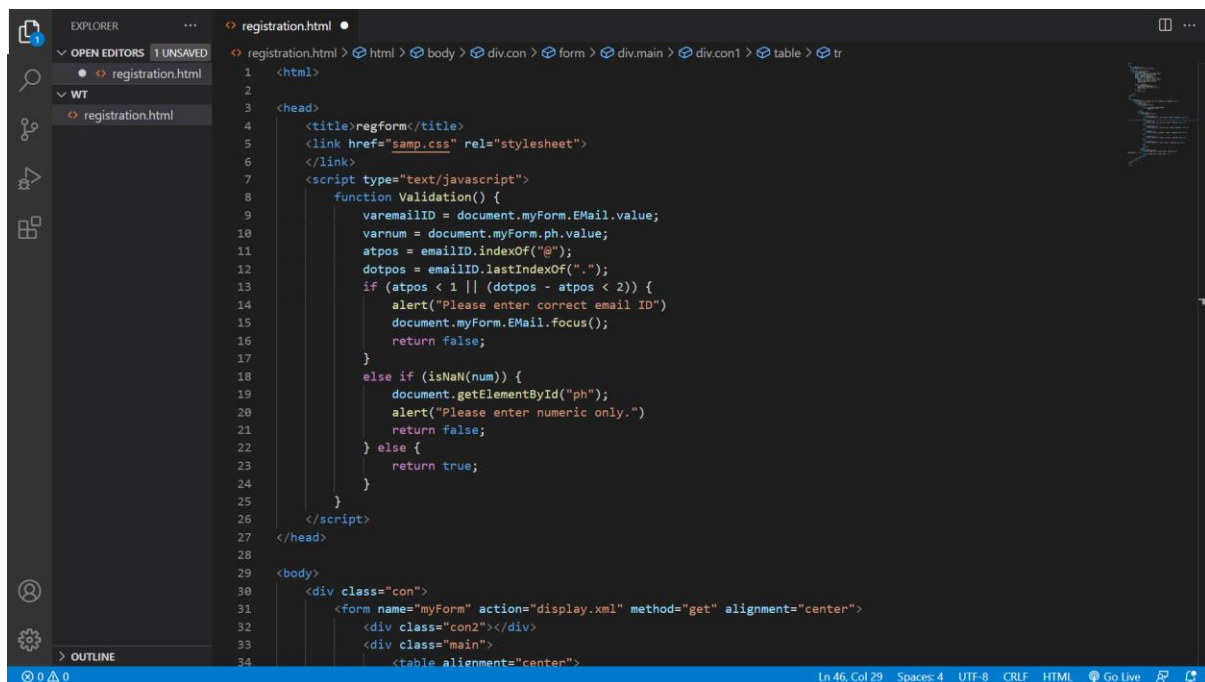
Manual testing is used to take following validations:

- 1) All fields like Full name, class, Department, Address, Phone Number and email id are mandatory fields.
- 2) Phone no. should be numbers only.
Email id should be in proper format like abc@abc.com.

* Conclusion:

Hence, we applied validate the data using JavaScript.

CODE:



```
1 <html>
2
3 <head>
4   <title>regform</title>
5   <link href="samp.css" rel="stylesheet">
6 </link>
7   <script type="text/javascript">
8     function Validation() {
9       varemailID = document.myForm.Email.value;
10      varnum = document.myForm.ph.value;
11      atpos = emailID.indexOf("@");
12      dotpos = emailID.lastIndexOf(".");
13      if (atpos < 1 || (dotpos - atpos < 2)) {
14        alert("Please enter correct email ID")
15        document.myForm.Email.focus();
16        return false;
17      }
18      else if (isNaN(num)) {
19        document.getElementById("ph");
20        alert("Please enter numeric only.")
21        return false;
22      } else {
23        return true;
24      }
25    }
26  </script>
27 </head>
28
29 <body>
30   <div class="con">
31     <form name="myForm" action="display.xml" method="get" alignment="center">
32       <div class="con2"></div>
33       <div class="main">
34         <table alignment="center">
```



```
34 <table alignment="center">
35 <tr>
36 <td><b><br>Welcome to Registration
37 <br>Page<br><br></td>
38 </tr>
39 </table>
40 <div class="con1">
41 <table alignment="center">
42 <tr>
43 <td>Full Name:</td>
44 <td><input type="text" id="FirstName" value="" required></input></td>
45 </tr>
46 <tr>
47 <td>Class:</td>
48 <td><input type="text" id="Class" value="" required></input></td>
49 </tr>
50 <tr>
51 <td>Department:</td>
52 <td><input type="text" id="Department" value="" required></input></td>
53 </tr>
54 <tr>
55 <td>Address:</td>
56 <td><textarea row="3" column="2" value="" required></textarea></td>
57 </tr>
58 <tr>
59 <td>email Id:</td>
60 <td><input type="text" value="" id="EMail" required></input></td>
61 </tr>
62 <tr>
63 <td>phone no:</td>
64 <td><input type="text" id="ph" value="" required></input></td>
65 </tr>
66 </tr>
67 </table></div>
```

```
58 <tr>
59 <td>email Id:</td>
60 <td><input type="text" value="" id="EMail" required></input></td>
61 </tr>
62 <tr>
63 <td>phone no:</td>
64 <td><input type="text" id="ph" value="" required></input></td>
65 </tr>
66 <tr>
67 <td><input type="submit" value="SUBMIT" onclick="return[Validation()];"></td>
68 <td><input type="reset" value="CANCEL"></td>
69 </tr>
70 </table>
71 </div>
72 </div>
73 </form>
74 </div>
75 </body>
76 </html>
```

This screenshot shows the Visual Studio Code editor with the `samp.css` file open. The Explorer sidebar on the left shows the project structure with `registration.html` and `samp.css` under the 'WT' folder. The main editor area displays the CSS code for `samp.css`, which includes styles for a container, a main content area, and two sub-containers.

```
# samp.css > .con2
1 .con
2 {
3   width:400px;
4   height:400px;
5   background-color:rgb(248, 233, 164);
6   color:blue;
7   padding:0px 10px 0px 10px;
8   margin:auto;
9 }
10 .main
11 {
12   width:400px;
13   height:80px;
14   float:left;
15   padding:60px 10px 10px10px;
16   margin: auto;
17 }
18 .con1
19 {
20   width:200px;
21   height:30px;
22   float:left;
23   margin:auto;
24   padding:0px 0px 0px0px;
25 }
26 .con2
27 {
28   width:150px;
29   height:30px;
30   float:left;
31   margin:10px 10px 10px10px;
32   padding:0px 0px 0px0px;
33 }
```

The status bar at the bottom indicates the current position is Line 33, Column 2, with 4 spaces, UTF-8 encoding, CRLF line endings, and CSS syntax highlighting. The port 5500 is also shown.

This screenshot shows the Visual Studio Code editor with the `display.html` file open. The Explorer sidebar on the left shows the project structure with `registration.html`, `samp.css`, and `display.html` under the 'WT' folder. The main editor area displays the HTML code for `display.html`, which includes a title and a message.

```
display.html > html > body > h1
1 <html>
2 <head>
3 <title> display</title>
4 </head>
5 <body>
6 <h1 style="color:#0c0c0b;margin-left:30px;"> You have submitted the form successfully...</h1>
7 </body>
8 </html>
```

The status bar at the bottom indicates the current position is Line 6, Column 25, with 4 spaces, UTF-8 encoding, CRLF line endings, and HTML syntax highlighting. The port 5500 is also shown.

OUTPUT:

The image shows two screenshots of a web browser. The top screenshot displays a registration form titled "Welcome to Registration Page". The form fields are: Full Name (Aditi Mulay), Class (TE), Department (Computer), address ('Sneh', Plot no.3, Vidya Nagar, Nashik), email Id (aditimulay08@gmail.com), and phone no. (empty). A "SUBMIT" button is at the bottom left. A red error message box with an exclamation mark icon says "Please fill out this field." and points to the empty phone number field. The browser's address bar shows "127.0.0.1:5500/registration.html". The bottom screenshot shows the same browser with the address bar at "127.0.0.1:5500/display.html?". The page content displays the message "You have submitted the form successfully....".

lab manual.pdf x regform x + - □

→ ↻ ⓘ 127.0.0.1:5500/registration.html ☆ ⚙ 🗖 👤

Welcome to Registration Page

Full Name: Aditi Mulay

Class: TE

Department: Computer

address: 'Sneh', Plot no.3, Vidya Nagar, Nashik

email Id: aditimulay08@gmail.com

phone no:

SUBMIT ! Please fill out this field.

lab manual.pdf x display x + - □

← → ↻ ⓘ 127.0.0.1:5500/display.html? ☆ ⚙ 🗖 👤

You have submitted the form successfully....