<div style="border:1px solid">

Tutorial No. 6

Title: Form Validation with JavaScript

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Batch:B1   **Roll No.:16010420133**   **Tutorial No.: 6**

Aim: Design a web page containing a form and perform appropriate client side validation on that form

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Theory

What is form validation:- Form validation helps us to ensure that users fill out forms in the correct format, making sure that submitted data will work successfully with our applications. When you don't enter your data in the format they are expecting. You'll get messages such as:
- "This field is required" (you can't leave this field blank)
- "Please enter your phone number in the format xxx-xxxx" (it enforces three numbers followed by a dash, followed by four numbers)
- "Please enter a valid e-mail address" (if your entry is not in the format of "somebody@example.com")
- "Your password needs to be between 8 and 30 characters long, and contain one uppercase letter, one symbol, and a number"

Client-side validation is validation that occurs in the browser before the data has been submitted to the server. This is more user-friendly than server-side validation as it gives an instant response. This can be further subdivided:

- JavaScript validation is coded using JavaScript. It is completely customizable.
- Built-in form validation using HTML5 form validation features. This generally does not require JavaScript. Built-in form validation has better performance, but it is not as customizable as JavaScript.

Activity

Apply validation in form using Regex/Built in validation/Event handling. Choose appropriate techniques

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Results: (Program printout with output)

```html
<!DOCTYPE html>
<html>
    <head>
    <title>
FORM

        </title>
<style>
        .form_wrapper{                 overflow: scroll;              position:
relative;               display: inline-table;
            left: 500px;

            max-width: 350px;               width: 100%;               background:
#fff;             padding: 25px;             border-radius:
5px;             box-shadow: 4px 4px 2px rgb(63, 61, 52);
        }

        .form_wrapper h2{                 text-align: center;              margin-
bottom: 20px;             text-transform: uppercase;          letter-spacing:
3px;
            color: #332902;
        }

        .form_wrapper .input_field{
            margin-bottom: 10px;
        }

        .form_wrapper .input_field input[type="text"],
        .form_wrapper textarea{               border: 1px solid
#e0e0e0;             width: 100%;             padding: 10px;
        }

        .form_wrapper textarea{               resize: none;             height:
80px;
        }
```

```css
        .form_wrapper .btn input[type="submit"]{
            border: 0px;              margin-top: 15px;              padding:
10px;              text-align: center;              width:
100%;              background: #19efcd;              color:
#332902;              text-transform: uppercase;              letter-spacing:
5px;              font-weight: bold;              border-radius: 25px;
            cursor: pointer;
        }

        #error_message{              margin-bottom:
20px;              background: #fe8b8e;              padding:
0px;              text-align: center;              font-size: 14px;
            transition: all 0.5s ease;
        }
    </style>
</head>
<body>
    <div class="form_wrapper">
        <h2>Contact us</h2>
        <div id="error_message">

        </div>
        <form action="" id="myform" onsubmit = "return validate();">
          <div class="input_field">
              <input type="text" placeholder="Name" id="name">
          </div>
          <div class="input_field">
              <input type="text" placeholder="Subject"
id="subject">              </div>
          <div class="input_field">
              <input type="text" placeholder="Phone" id="phone">
          </div>
          <div class="input_field">
              <input type="text" placeholder="Email" id="email">
          </div>
          <div class="input_field">
              <textarea placeholder="Message" id="message"></textarea>
          </div>
          <div class="btn">
              <input type="submit">
          </div>
        </form>
    </div>  <script>         function validate(){
        var name = document.getElementById("name").value;              var subject =
document.getElementById("subject").value;              var phone =
document.getElementById("phone").value;              var email =
document.getElementById("email").value;              var message =
document.getElementById("message").value;
        var error_message = document.getElementById("error_message");

        error_message.style.padding = "10px";
```

```
        var text;            if(name.length < 5){            text = "Please Enter
valid Name";
          error_message.innerHTML = text;            return false;
        }
        if(subject.length < 4){            text = "Please Enter Correct Subject";
          error_message.innerHTML = text;            return false;
        }
        if(isNaN(phone) || phone.length != 10){            text = "Please Enter
valid Phone Number";
          error_message.innerHTML = text;            return false;
        }
        if(email.indexOf("@") == -1 || email.length < 6){            text =
"Please Enter valid Email";
          error_message.innerHTML = text;            return false;
        }
        if(message.length <= 30){
          text = "Please Enter More Than 30
Characters";            error_message.innerHTML = text;            return false;
        }
        alert("Form Submitted Successfully!");
        return true;
      }
    </script>
</body>
</html>
```

CONTACT US

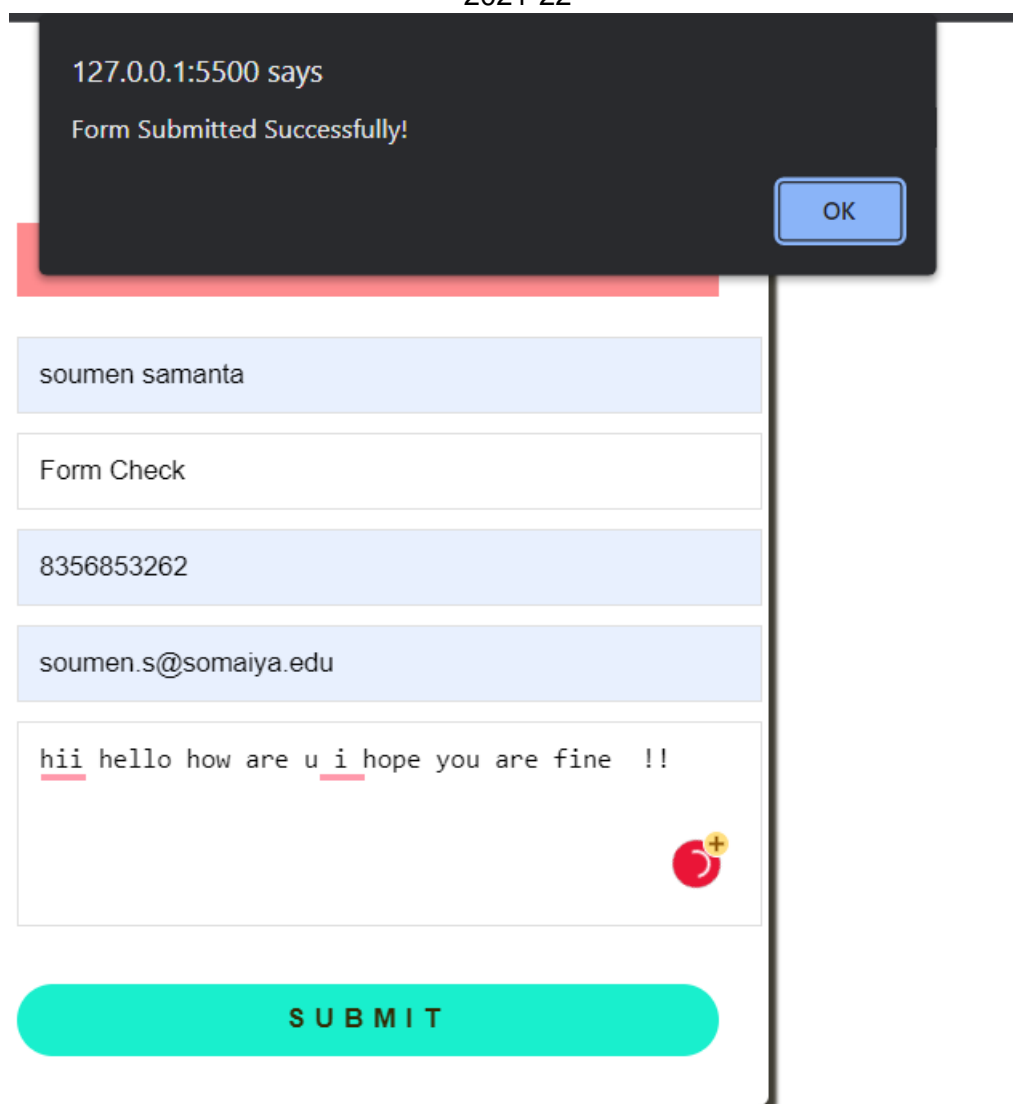Please Enter More Than 30 Characters

soumen samanta

Form Check

8356853262

soumen.s@somaiya.edu

hii hello !!

SUBMIT

Outcomes:

Apply JavaScript and JSON for web application development

Conclusion: (Conclusion to be based on the outcomes achieved)

Successfully added JavaScript to the form and validated. The form shows necessary conditions for each section and gives a pop up of submission of form when all the condition s are satisfied and clicked on submit button.

Grade: AA / AB / BB / BC / CC / CD /DD

Signature of faculty in-charge with date

References:

Books/ Journals/ Websites:

- "Web technologies: Black Book", Dreamtech Publications
- http://www.w3schools.com