

EXP NO: 2

JavaScript Form Validation for Registration Page

AIM:

Write JavaScript to validate the following fields of the Registration page.

- a) First Name (Name should contains alphabets and the length Should not be less than 6 characters).
- b) Password (Password should not be less than 6 characters length).
- c) E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)
- d) Mobile Number (Phone number should contain 10 digits only).
- e) Last Name and Address (should not be Empty).

CODE:

Validate.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Registration Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f2f2f2;
      display: flex;
      flex-direction: column;
      align-items: center;
      padding: 20px;
    }

    form {
      background-color: white;
```

```
padding: 20px;
padding-right: 30px;
border-radius: 10px;
box-shadow: 0 0 10px rgba(0,0,0,0.1);
width: 320px;
}
```

```
label {
  font-weight: bold;
}
```

```
input, textarea {
  width: 100%;
  margin-top: 5px;
  margin-bottom: 10px;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 6px;
}
```

```
.error-message {
  color: red;
  font-size: 13px;
  margin-bottom: 10px;
}
```

```
input[type="submit"] {
  background-color: #4CAF50;
  color: white;
  cursor: pointer;
  font-weight: bold;
  border: none;
}
```

```
input[type="submit"]:hover {
  background-color: #45a049;
}
```

```
    h1 {
        margin-bottom: 20px;
    }
</style>
</head>
<body>
    <h1>Registration Form</h1>
    <form name="RegForm" onsubmit="return validateForm()">
        <label for="firstname">First Name:</label>
        <input type="text" id="firstname" name="firstname" required>
        <span id="firstname-error" class="error-message"></span>

        <label for="lastname">Last Name:</label>
        <input type="text" id="lastname" name="lastname" required>
        <span id="lastname-error" class="error-message"></span>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
        <span id="password-error" class="error-message"></span>

        <label for="email">Email:</label>
        <input type="text" id="email" name="email" required>
        <span id="email-error" class="error-message"></span>

        <label for="phone">Phone Number:</label>
        <input type="tel" id="phone" name="phone" required>
        <span id="phone-error" class="error-message"></span>

        <label for="address">Address:</label>
        <textarea id="address" name="address" required></textarea>
        <span id="address-error" class="error-message"></span>

        <input type="submit" value="Submit">
    </form>

    <script>
```

```

function validateForm() {
    let isValid = true;

    let firstname = document.getElementById("firstname").value.trim();
    let lastname = document.getElementById("lastname").value.trim();
    let password = document.getElementById("password").value;
    let email = document.getElementById("email").value.trim();
    let phone = document.getElementById("phone").value.trim();
    let address = document.getElementById("address").value.trim();

    const firstnameError = document.getElementById("firstname-error");
    const lastnameError = document.getElementById("lastname-error");
    const passwordError = document.getElementById("password-error");
    const emailError = document.getElementById("email-error");
    const phoneError = document.getElementById("phone-error");
    const addressError = document.getElementById("address-error");

    firstnameError.textContent = "";
    lastnameError.textContent = "";
    passwordError.textContent = "";
    emailError.textContent = "";
    phoneError.textContent = "";
    addressError.textContent = "";

    if (!/^[A-Za-z]{6,}$/.test(firstname)) {
        firstnameError.textContent = "First Name must be alphabetic and at least 6 characters.";
        isValid = false;
    }

    if (lastname === "") {
        lastnameError.textContent = "Last Name should not be empty.";
        isValid = false;
    }

```

```

    }

    if (password.length < 6) {
        passwordError.textContent = "Password must be at least 6 characters.";
        isValid = false;
    }

    const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
    if (!emailPattern.test(email)) {
        emailError.textContent = "Invalid email format (e.g., name@domain.com).";
        isValid = false;
    }

    if (!/^\d{10}$/.test(phone)) {
        phoneError.textContent = "Phone number must be exactly 10 digits.";
        isValid = false;
    }

    if (address === "") {
        addressError.textContent = "Address should not be empty.";
        isValid = false;
    }

    if (isValid) {
        alert("Registered successfully!");
    }

    return isValid;
}
</script>
</body>
</html>

```

OUTPUT:

The screenshot shows the Eclipse IDE with the 'Form_Validate.html' file open. The code is an HTML form for user registration. It includes a title 'Registration Form', a CSS style block, and several form fields: First Name, Last Name, Email, Password, Phone Number, and Address. Each field has a label, a text input, and a placeholder. There are also error messages for each field, which are currently hidden. A 'Submit' button is at the bottom.

```
<!-- HTML -->
<?xml:namespace prefix="html" href="http://www.w3.org/1999/xhtml"/>
<html>
<head>
<title>Registration Form</title>
<style>
.error-message {
color: red;
font-size: 14px;
margin-top: 5px;
}
input {
padding: 5px;
border-radius: 4px;
display: block;
}
</style>
</head>
<body style="display: flex; flex-direction: column; justify-content: center; align-items: center;">
<div id="REGISTRATION FORM">
<form name="Register" onSubmit="return validateForm()">
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    <div>
21        <label for="firstName">First Name</label>
22        <input type="text" id="firstName" name="firstName" placeholder="Enter First Name" required>
23        <span id="firstName-error" class="error-message"></span>
24    </div>
25
26    <div>
27        <label for="lastName">Last Name</label>
28        <input type="text" id="lastName" name="lastName" placeholder="Enter Last Name" required>
29        <span id="lastName-error" class="error-message"></span>
30    </div>
31
32    <div>
33        <label for="email">Email</label>
34        <input type="text" id="email" name="email" placeholder="Enter Email" required>
35        <span id="email-error" class="error-message"></span>
36    </div>
37
38    <div>
39        <label for="password">Password</label>
40        <input type="password" id="password" name="password" placeholder="Enter Password" required>
41        <span id="password-error" class="error-message"></span>
42    </div>
43
44    <div>
45        <label for="phone">Phone Number</label>
46        <input type="text" id="phone" name="phone" placeholder="Enter Phone Number" required>
47        <span id="phone-error" class="error-message"></span>
48    </div>
49
50    <div>
51        <label for="address">Address</label>
52        <input type="text" id="address" name="address" placeholder="Enter Address" required>
53        <span id="address-error" class="error-message"></span>
54    </div>
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56    <input type="submit" value="Submit" name="Submit" />
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Registration Form

First Name:
Karthick

Last Name:
S

Password:

Email:
231801079@rajalakshmi.edu.in

Phone Number:
8925751196

Address:
No:2622 2nd Street Randass Nagar
Kattupakkam, Chennai-56

Submit

Registration Form

This page says
Registered successfully!

OK

Karthick

Last Name:
S

Password:

Email:
231801079@rajalakshmi.edu.in

Phone Number:
8925751196

Address:
No:2622 2nd Street Randass Nagar
Kattupakkam, Chennai-56

Submit

RESULT:

The Registration form with required validation is successfully implemented.