

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>

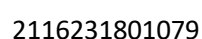
```

The screenshot shows the Eclipse IDE interface. The main editor window displays the 'FormValidate.html' file, which contains HTML code for a registration form. The code includes form elements for first name, last name, email, password, phone number, and address, each with associated error messages and validation logic. The left sidebar shows the project structure, and the bottom status bar indicates the server is running.

```

1  <title>Registration Form</title>
2
3  <style>
4
5      .error-message {
6          color: red;
7          font-size: 14px;
8          margin-top: 5px;
9      }
10
11      input {
12          padding: 5px;
13          border-radius: 4px;
14          display: block;
15      }
16  </style>
17  </head>
18  <body style="display: flex; flex-direction: column; justify-content: center; align-items: center;">
19      <div>
20          <h2>REGISTRATION FORM</h2>
21
22          <form name="register" onSubmit="return validateForm()">
23              <div>
24                  <input type="text" id="firstname" name="firstname" placeholder="Enter First Name" required/>
25                  <span id="firstname-error" class="error-message"></span>
26              </div>
27
28              <div>
29                  <input type="text" id="lastname" name="lastname" placeholder="Enter Last Name" required/>
30                  <span id="lastname-error" class="error-message"></span>
31              </div>
32
33              <div>
34                  <input type="email" id="email" name="email" placeholder="Enter Email" required/>
35                  <span id="email-error" class="error-message"></span>
36              </div>
37
38              <div>
39                  <input type="password" id="password" name="password" placeholder="Enter Password" required/>
40                  <span id="password-error" class="error-message"></span>
41              </div>
42
43              <div>
44                  <input type="text" id="phone" name="phone" placeholder="Enter Phone Number" required/>
45                  <span id="phone-error" class="error-message"></span>
46              </div>
47
48              <div>
49                  <input type="text" id="address" name="address" placeholder="Enter Address" required/>
50                  <span id="address-error" class="error-message"></span>
51              </div>
52
53              <input type="submit" value="Submit" name="Submit" />
54          </form>
55      </div>
56  </body>
57  </html>

```



Registration Form

First Name:
Karthick

Last Name:
S

Password:

Email:
231801079@rajalakshmi.edu.in

Phone Number:
8925751196

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

Submit

This page says
Registered successfully!

OK

Karthick

Last Name:
S

Password:

Email:
231801079@rajalakshmi.edu.in

Phone Number:
8925751196

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

Submit

RESULT:

The Registration form with required validation is successfully implemented.