

EXP 2: JAVASCRIPT

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).**

AIM:

To validate the registration form fields using JavaScript.

ALGORITHM:

1. Retrieve input values from the form fields.
2. Validate the first name to ensure it contains only alphabets and has a minimum length of 6 characters.
3. Ensure the last name field is not empty.
4. Validate the password to ensure it has a minimum length of 6 characters.
5. Validate the email using a standard email format pattern.
6. Check that the mobile number contains exactly 10 digits.
7. Ensure the address field is not empty.
8. Display error messages if any validation fails.
9. Allow form submission only if all validations pass.

SOURCE CODE:

Index.html

```
<> index.html U X # styles.css U JS script.js U
EXP2 > <> index.html > ...
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Registration Form</title>
7   <link rel="stylesheet" href="styles.css">
8 </head>
9 <body>
10   <div class="container">
11     <h1>Registration Form</h1>
12     <form id="registrationForm" onsubmit="return validateForm()">
13       <div class="form-group">
14         <label for="firstName">First Name</label>
15         <input type="text" id="firstName" placeholder="Enter your first name">
16         <small class="error-message" id="firstNameError"></small>
17       </div>
18
19       <div class="form-group">
20         <label for="lastName">Last Name</label>
21         <input type="text" id="lastName" placeholder="Enter your last name">
22         <small class="error-message" id="lastNameError"></small>
23       </div>
24
25       <div class="form-group">
26         <label for="email">Email</label>
27         <input type="email" id="email" placeholder="Enter your email">
28         <small class="error-message" id="emailError"></small>
29       </div>
30
31       <div class="form-group">
32         <label for="password">Password</label>
33         <input type="password" id="password" placeholder="Enter your password">
34         <small class="error-message" id="passwordError"></small>
35       </div>
36
37       <div class="form-group">
38         <label for="mobile">Mobile Number</label>
39         <input type="text" id="mobile" placeholder="Enter your 10-digit mobile number">
40         <small class="error-message" id="mobileError"></small>
41       </div>
42
43       <div class="form-group">
44         <label for="address">Address</label>
45         <textarea id="address" placeholder="Enter your address"></textarea>
46         <small class="error-message" id="addressError"></small>
47       </div>
48
49       <button type="submit" class="submit-btn">Register</button>
50     </form>
51   </div>
52
53   <script src="script.js"></script>
54 </body>
55 </html>
```

Styles.css

```
<> index.html U # styles.css U X JS script.js U
EXP2 > # styles.css > {} @media (max-width: 768px)
1  /* Base Styles */
2  :root {
3      --primary-color: #3498db;
4      --secondary-color: #2980b9;
5      --error-color: #e74c3c;
6      --success-color: #2ecc71;
7      --text-color: #333;
8      --light-gray: #f5f5f5;
9      --border-color: #ddd;
10 }
11
12 * {
13     margin: 0;
14     padding: 0;
15     box-sizing: border-box;
16     font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
17 }
18
19 body {
20     background-color: #f9f9f9;
21     color: var(--text-color);
22     line-height: 1.6;
23     padding: 20px;
24 }
```

```
EXP2 > # styles.css > {} @media (max-width: 768px)
25
26 .container {
27     max-width: 600px;
28     margin: 0 auto;
29     background: white;
30     padding: 30px;
31     border-radius: 8px;
32     box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
33 }
34
35 h1 {
36     text-align: center;
37     margin-bottom: 30px;
38     color: var(--primary-color);
39 }
40
41 /* Form Styles */
42 .form-group {
43     margin-bottom: 20px;
44 }
45
46 label {
47     display: block;
48     margin-bottom: 8px;
49     font-weight: 600;
50 }
51
```

```

52   input[type="text"],
53   input[type="email"],
54   input[type="password"],
55   textarea {
56     width: 100%;
57     padding: 12px;
58     border: 1px solid var(--border-color);
59     border-radius: 4px;
60     font-size: 16px;
61     transition: border 0.3s ease;
62   }
63
64   input[type="text"]:focus,
65   input[type="email"]:focus,
66   input[type="password"]:focus,
67   textarea:focus {
68     outline: none;
69     border-color: var(--primary-color);
70     box-shadow: 0 0 0 2px rgba(52, 152, 219, 0.2);
71   }
72
73   textarea {
74     min-height: 100px;
75     resize: vertical;
76   }
77

```

```

78   .error-message {
79     color: var(--error-color);
80     font-size: 14px;
81     margin-top: 5px;
82     display: none;
83   }
84
85   /* Button Styles */
86   .submit-btn {
87     width: 100%;
88     padding: 12px;
89     background-color: var(--primary-color);
90     color: white;
91     border: none;
92     border-radius: 4px;
93     font-size: 16px;
94     font-weight: 600;
95     cursor: pointer;
96     transition: background-color 0.3s ease;
97   }
98
99   .submit-btn:hover {
100     background-color: var(--secondary-color);
101   }
102
103   /* Error States */
104   input.error,
105   textarea.error {
106     border-color: var(--error-color);
107   }

```

```

08
09     input.success,
10     textarea.success {
11     |     border-color: var(--success-color);
12     | }
13
14     /* Responsive Design */
15     @media (max-width: 768px) {
16     |     .container {
17     |     |     padding: 20px;
18     |     | }
19     | }

```

OUTPUT:

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/EXP2/index.html". The main content area features a "Registration Form" with the following fields and values:

- First Name:** Nandhini
- Last Name:** Prakash
- Email:** 231501105@rajalakshmi.edu.in
- Password:** Masked with dots (.....)
- Mobile Number:** 6380024060
- Address:** 407, Indra nagar, 3rd West street, Kattupakkam, Chennai

A blue "Register" button is located at the bottom of the form.