

EXP: 2 JavaScript Form Validation

A) Create a Web Page with Form Validation using JavaScript

AIM:

Create a Web Page that includes a form with validation using JavaScript.

ALGORITHM:

Step 1: Create an HTML File (index.html).

- Define the document structure using `<html>`, `<head>`, and `<body>`.
- Set the page title and include a link to an external CSS file for styling.

Step 2: Design the Form Structure.

- Use the `<form>` tag to create a user registration form.
- Include input fields for Name, Email, Password, and Confirm Password.
- Add labels for each field to improve accessibility.

Step 3: Implement JavaScript Validation.

- Create an external JavaScript file (script.js).
- Write a function to validate form inputs such as:
 - Checking if fields are empty.
 - Validating email format.

- Ensuring password length is sufficient.
- Matching password and confirm password fields.
- Display error messages if validation fails.

Step 4: Enhance User Experience.

- Apply CSS styles for a visually appealing design.
- Use different colors for valid and invalid input fields.

Step 5: Test the Form.

- Try submitting the form with valid and invalid inputs to ensure validation works correctly.

PROGRAM:

INDEX.HTML:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>JavaScript Form Validation</title>

  <link rel="stylesheet" href="styles.css">

</head>

<body>

  <div class="container">
```

```
<h2>Registration Form</h2>

<form id="registrationForm">

  <label for="name">Name:</label>

  <input type="text" id="name" placeholder="Enter your name" required>

  <label for="email">Email:</label>

  <input type="email" id="email" placeholder="Enter your email" required>

  <label for="password">Password:</label>

  <input type="password" id="password" placeholder="Enter your password" required>

  <label for="confirmPassword">Confirm Password:</label>

  <input type="password" id="confirmPassword" placeholder="Confirm your password"
required>

  <button type="submit">Register</button>

</form>

<p class="message" id="message"></p>

</div>

<script src="script.js"></script>

</body>

</html>
```

OUTPUT:

(Screenshot of the form with validation messages and successful submission confirmation.)

RESULT: The web page with JavaScript form validation is successfully created.