

IT & Computer Science

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Lab 09

JavaScript Form Validation

Task 1: Implement a Complete Form with Validation.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <style>
    body {
      font-family: Arial;
      margin: 40px;
    }

    label {
      display: block;
      margin-top: 10px;
    }

    input, select {
      padding: 5px;
      width: 250px;
    }

    .error {
      color: red;
      font-size: 14px;
    }
  </style>
</head>
<body>

  <h2>Registration Form</h2>

  <form onsubmit="return validateForm()">
    <label>Name:</label>
    <input type="text" id="name" />
    <div class="error" id="nameError"></div>

    <label>Email:</label>
    <input type="text" id="email" />
    <div class="error" id="emailError"></div>
```

```
<label>Password:</label>
<input type="password" id="password" />
<div class="error" id="passwordError"></div>

<label>Confirm Password:</label>
<input type="password" id="confirmPassword" />
<div class="error" id="confirmPasswordError"></div>

<label>Phone Number:</label>
<input type="text" id="phone" />
<div class="error" id="phoneError"></div>

<label>Gender:</label>
<select id="gender">
  <option value="">--Select Gender--</option>
  <option value="male">Male</option>
  <option value="female">Female</option>
  <option value="other">Other</option>
</select>

<div class="error" id="genderError"></div>

<br><br>
<button type="submit">Submit</button>
</form>

<script>
  function validateForm() {
    let valid = true;

    document.querySelectorAll('.error').forEach(e => e.innerText = "");

    let name = document.getElementById("name").value;
    if (name.length < 3) {
      document.getElementById("nameError").innerText = "Name must be at least 3
characters";
      valid = false;
    }

    let email = document.getElementById("email").value;
    let emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    if (!emailRegex.test(email)) {
      document.getElementById("emailError").innerText = "Enter a valid email";
      valid = false;
    }

    let password = document.getElementById("password").value;
```

```
let passRegex = /^(?=.*[A-Z])(?=.*\d){8,}$/;
if (!passRegex.test(password)) {
    document.getElementById("passwordError").innerText = "Password must be 8+
characters, include a number and uppercase letter";
    valid = false;
}

let confirmPassword = document.getElementById("confirmPassword").value;
if (password !== confirmPassword) {
    document.getElementById("confirmPasswordError").innerText = "Passwords do not
match";
    valid = false;
}

let phone = document.getElementById("phone").value;
if (!/^\\d{11}$/.test(phone)) {
    document.getElementById("phoneError").innerText = "Phone number must be exactly
11 digits";
    valid = false;
}

let gender = document.getElementById("gender").value;
if (gender === "") {
    document.getElementById("genderError").innerText = "Please select a gender";
    valid = false;
}

return valid;
}
</script>

</body>
</html>
```

Output: When i enter wrong form fields

Registration Form

Name:

Name must be at least 3 characters

Email:

Enter a valid email

Password:

Password must be 8+ characters, include a number and uppercase letter

Confirm Password:

Passwords do not match

Phone Number:

Phone number must be exactly 11 digits

Gender:

Please select a gender

Explanation:

In this Lab we work on JavaScript form validation to validate user input base on criteria:

In this lab there was task for each input:

- **Name:** Should be at least 3 characters
- **Email:** Should be valid Email
- **Password:** Should be match with confirm
- **Ph Number:** Must be 11 digits
- **Gender:** Should be select one option

For each validation i write a JavaScript code with one form validation function and also div for displaying all the errors when occur.