

LA3: Form Making and Validation using JavaScript

Html code:

```
<html>
<head>
  <title>Registration Form</title>
  <link rel="stylesheet" type="text/css" href="Style.css">
</head>
<body>
  <form name="registrationForm" id="registrationForm" onsubmit="return
validateForm()">
    <label for="username">Username:</label>
    <input type="text" name="username" id="username">
    <span class="error" id="usernameError"></span><br>

    <label for="email">Email:</label>
    <input type="text" name="email" id="email">
    <span class="error" id="emailError"></span><br>

    <label for="password">Password:</label>
    <input type="password" name="password" id="password">
    <span class="error" id="passwordError"></span><br>

    <label for="confirmPassword">Confirm Password:</label>
    <input type="password" name="confirmPassword" id="confirmPassword">
    <span class="error" id="confirmPasswordError"></span><br>

    <label for="phoneNumber">Phone Number:</label>
    <input type="text" name="phoneNumber" id="phoneNumber">
    <span class="error" id="phoneNumberError"></span><br>

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

  <script src="main.js"></script>
</body>
</html>
```

Css code:

```
body {
  font-family: Arial, sans-serif;
  text-align: center;
```

```
background-color: #f0f0f0;
}

form {
  margin: 20px auto;
  max-width: 400px;
  padding: 20px;
  background-color: #ffffff;
  border: 1px solid #ccc;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
}

label {
  display: block;
  text-align: left;
  font-weight: bold;
}

input {
  width: 100%;
  padding: 10px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 5px;
}

.error {
  color: red;
  font-size: 14px;
  text-align: left;
}

input[type="submit"] {
  background-color: #4CAF50;
  color: white;
  border: none;
  padding: 10px 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  margin-top: 10px;
  cursor: pointer;
  border-radius: 5px;
}

input[type="submit"]:hover {
```

```
    background-color: #45a049;
}

/* Adding frame around the form */
form {
    border: 1px solid #ccc;
    padding: 20px;
    border-radius: 10px;
    background-color: #fff;
}

/* Styling the form inputs */
input {
    width: 90%;
    padding: 10px;
    margin-bottom: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
}

/* Error message styling */
.error {
    color: rgb(192, 0, 0);
    font-size: 14px;
    text-align: left;
}

/* Additional styling for labels */
label {
    color: #333;
    font-size: 16px;
}

/* Styling for the submit button */
input[type="submit"] {
    background-color: #015d04;
    color: white;
    border: none;
    padding: 10px 20px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin-top: 10px;
    cursor: pointer;
    border-radius: 5px;
    transition: background-color 0.3s ease;
}
```

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

Js code:

```
// JavaScript using name attribute  
function validateForm() {  
    const form = document.forms["registrationForm"];  
    const username = form.elements["username"];  
    const email = form.elements["email"];  
    const password = form.elements["password"];  
    const confirmPassword = form.elements["confirmPassword"];  
    const phoneNumber = form.elements["phoneNumber"];  
  
    const usernameError = document.getElementById("usernameError");  
    const emailError = document.getElementById("emailError");  
    const passwordError = document.getElementById("passwordError");  
    const confirmPasswordError =  
document.getElementById("confirmPasswordError");  
    const phoneNumberError = document.getElementById("phoneNumberError");  
  
    const usernamePattern = /^[a-zA-Z0-9]{3,20}$/;  
    const emailPattern = /^[^\\s@]+@[^\\s@]+\\.^[^\\s@]+$/;  
    const passwordPattern = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\\d)(?=.*[@#$%])[A-Za-z\\d@#$%]{8,}$/;  
  
    let isValid = true;  
  
    // Validate username  
    if (!username.value.match(usernamePattern)) {  
        usernameError.textContent = "Username should be between 3 and 20  
alphanumeric characters.";  
        isValid = false;  
    } else {  
        usernameError.textContent = "";  
    }  
  
    // Validate email  
    if (!email.value.match(emailPattern)) {  
        emailError.textContent = "Invalid email address format.";  
        isValid = false;  
    } else {  
        emailError.textContent = "";  
    }  
}
```

```

// Validate password
if (!password.value.match(passwordPattern)) {
    passwordError.textContent = "Password should be at least 8 characters
long, containing one uppercase letter, one lowercase letter, one number, and
one special character.";
    isValid = false;
} else {
    passwordError.textContent = "";
}

// Validate confirm password
if (password.value !== confirmPassword.value) {
    confirmPasswordError.textContent = "Passwords do not match.";
    isValid = false;
} else {
    confirmPasswordError.textContent = "";
}

// Validate phone number
if (!phoneNumber.value.match(/^\\+91\\s\\d{10}$\\/)) {
    phoneNumberError.textContent = "Invalid phone number format. Should be
in the format +91 1234567890.";
    isValid = false;
} else {
    phoneNumberError.textContent = "";
}

return isValid;
}

```

Output:

The image shows a registration form with the following fields and values:

- Username:** dharshini
- Email:** dharshininagarajan
- Password:** (masked with asterisks)
- Confirm Password:** (masked with asterisks)
- Phone Number:** 12394892389

Validation messages are displayed below the Email and Phone Number fields:

- Below Email: Invalid email address format.
- Below Phone Number: Invalid phone number format. Should be in the format +91 1234567890.

A green **Register** button is at the bottom of the form.

