Raj Kumar Goel Institute Of Technology, Ghaziabad

EXPERIMENT 04

Aim : Write programs using HTML and Java Script for validation of input data.

Index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Input Validation Form</title>
    <link rel="StyleSheet" href="Style.css">
</head>
<body>
    <script src="Script.js"></script>
<div class="container">
    <h2>Registration Form</h2>
    <form id="registrationForm">
        <label for="username">Username:</label>
        <input type="text" id="username" name="username" required>
        <div class="error" id="usernameError">Please enter a username.</div>

        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <div class="error" id="emailError">Please enter a valid email.</div>

        <label for="phone">Phone Number:</label>
        <input type="tel" id="phone" name="phone" required>
        <div class="error" id="phoneError">Please enter a valid phone
number.</div>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
        <div class="error" id="passwordError">Please enter a password.</div>

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

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```html
</div>
</body>
</html>
```

Style.css

```css
body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    margin: 0;
    padding: 20px;
}
.container {
    max-width: 400px;
    margin: auto;
    padding: 20px;
    background: white;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
h2 {
    text-align: center;
    color: #007BFF;
}
label {
    display: block;
    margin: 10px 0 5px;
}
input[type="text"],
input[type="email"],
input[type="tel"],
input[type="password"] {
    width: 100%;
    padding: 10px;
    margin: 5px 0 15px;
    border: 1px solid #ccc;
    border-radius: 5px;
}
.error {
    color: red;
```

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```css
        font-size: 0.9em;
        display: none;
}
input[type="submit"] {
        background-color: #007BFF;
        color: white;
        border: none;
        padding: 10px;
        border-radius: 5px;
        cursor: pointer;
        font-size: 16px;
        width: 100%;
}
input[type="submit"]:hover {
        background-color: #0056b3;
}
```

Javascript:-

```javascript
document.getElementById('registrationForm').addEventListener('submit',
function(event) {
        let valid = true;

        // Clear previous errors
        const errorElements = document.querySelectorAll('.error');
        errorElements.forEach(error => error.style.display = 'none');

        // Validate Username
        const username = document.getElementById('username').value;
        if (username === '') {
            document.getElementById('usernameError').style.display = 'block';
            valid = false;
        }

        // Validate Email
        const email = document.getElementById('email').value;
        const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
        if (!emailPattern.test(email)) {
            document.getElementById('emailError').style.display = 'block';
```

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```javascript
                valid = false;
        }

        // Validate Phone Number
        const phone = document.getElementById('phone').value;
        const phonePattern = /^\d{10}$/; // Adjust regex based on your
requirement
        if (!phonePattern.test(phone)) {
            document.getElementById('phoneError').style.display = 'block';
            valid = false;
        }

        // Validate Password
        const password = document.getElementById('password').value;
        if (password === '') {
            document.getElementById('passwordError').style.display = 'block';
            valid = false;
        }

        if (!valid) {
            event.preventDefault(); // Prevent form submission
        }
    });
```
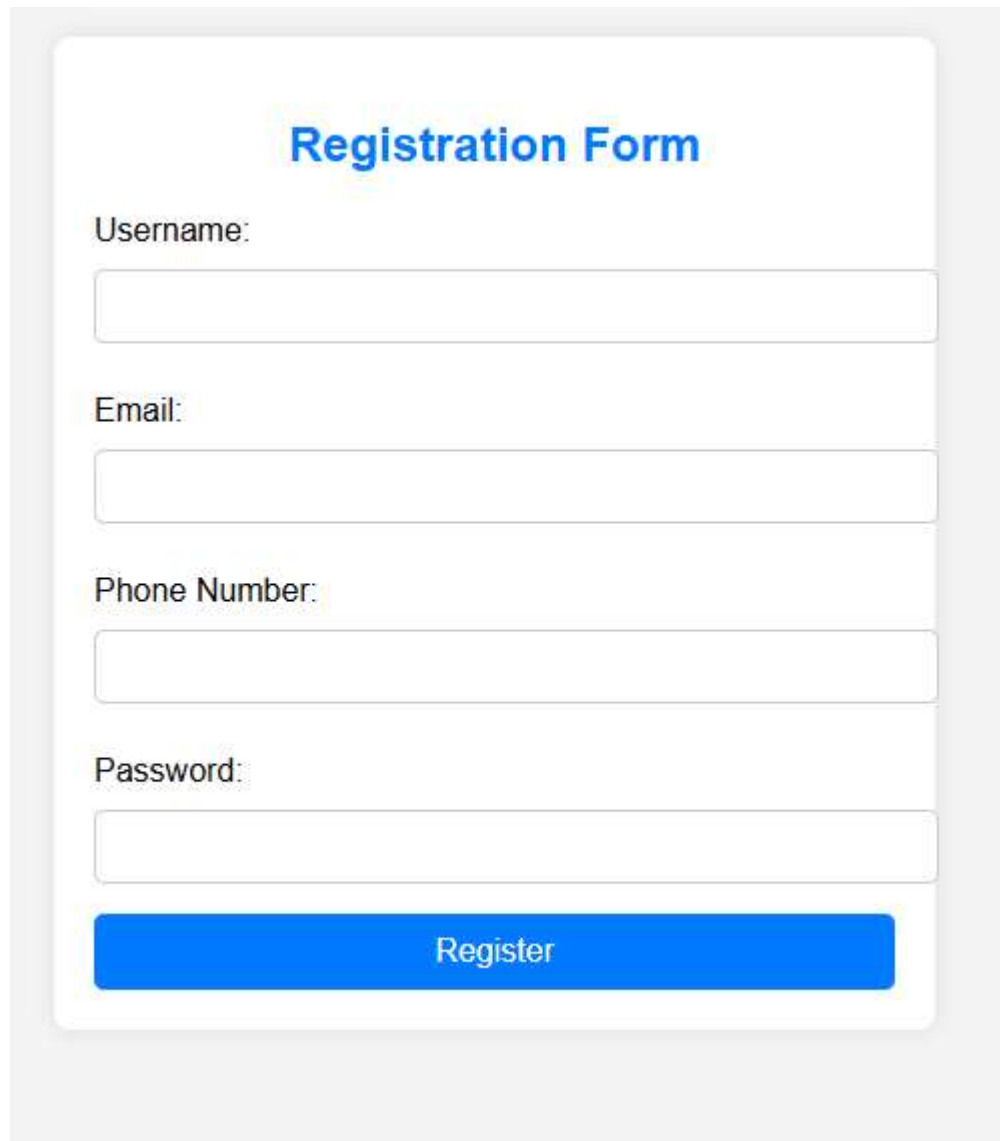
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Registration Form

Username:

Email:

Phone Number:

Password:

Register