

EXP.NO: 2

**Write JavaScript Programme to validate the
following fields of the HTML Registration page.:**

AIM:

To write JavaScript code to validate user input in a registration form. The validation will ensure that the data entered by the user meets specific criteria for each field. This will help in maintaining data integrity and prevent invalid submissions.

ALGORITHM:

1. Input:

The user fills in the following fields: First Name, Password, E-mail, Mobile Number, Last Name, and Address.

2. Validation Steps:

1. Validate First Name:

- o Check if the first name contains only alphabets.
- o Ensure the length of the First Name is at least 6 characters.
- o If any of these conditions fail, display an error message indicating the required input.

2. Validate Password:

- o Check if the password is at least 6 characters long.
- o If it is less than 6 characters, display an error message.

3. Validate E-mail:

- o Use a regular expression to check if the email follows the standard pattern:
`name@domain.com`.
- o Ensure that the email contains no invalid characters and matches the required pattern.
- o If it doesn't match, display an error message indicating an invalid email format.

4. Validate Mobile Number:

- o Check if the mobile number contains exactly 10 digits.

- o Ensure there are no alphabets or special characters.
- o If the number is invalid, display an error message indicating the correct format.

5. Validate Last Name:

- o Ensure the Last Name field is not empty.
- o If it is empty, display an error message.

6. Validate Address:

- o Ensure the Address field is not empty.
- o If it is empty, display an error message.

CODE:

HTML:

```
<!DOCTYPE html>
<html>
<head>
<title>Registration Form Validation</title>
<script>

function validateForm() {

    var fname = document.getElementById("fname").value;
    var lname = document.getElementById("lname").value;
    var password = document.getElementById("password").value;
    var email = document.getElementById("email").value;
    var mobile = document.getElementById("mobile").value;
    var address = document.getElementById("address").value;

    var namePattern = /^[A-Za-z]+$/;
    var emailPattern = /^[^\s@]+\@\[^s@]+\.[^\s@]+$/;
    var mobilePattern = /^[0-9]{10}\$/;

    // First Name Validation
    if (!namePattern.test(fname) || fname.length < 6) {
        alert("First Name must contain only alphabets and minimum 6 characters");
        return false;
    }

    // Last Name Validation
    if (!namePattern.test(lname) || lname.length < 6) {
        alert("Last Name must contain only alphabets and minimum 6 characters");
        return false;
    }

    // Password Validation
    if (password.length < 8) {
        alert("Password must be at least 8 characters long");
        return false;
    }

    // Email Validation
    if (!emailPattern.test(email)) {
        alert("Email is not valid");
        return false;
    }

    // Mobile Validation
    if (!mobilePattern.test(mobile)) {
        alert("Mobile number must be 10 digits");
        return false;
    }

    // Address Validation
    if (address.length < 10) {
        alert("Address must be at least 10 characters long");
        return false;
    }

    // All validations passed, proceed with form submission
    return true;
}

</script>
</head>
<body>
<form>
    <input type="text" id="fname" placeholder="First Name">
    <input type="text" id="lname" placeholder="Last Name">
    <input type="password" id="password" placeholder="Password">
    <input type="text" id="email" placeholder="Email">
    <input type="text" id="mobile" placeholder="Mobile Number">
    <input type="text" id="address" placeholder="Address">
    <input type="button" value="Submit" onclick="validateForm()">
</form>
</body>

```

```
}

// Password Validation
if (password.length < 6) {
    alert("Password must be at least 6 characters long");
    return false;
}

// Email Validation
if (!emailPattern.test(email)) {
    alert("Invalid Email format");
    return false;
}

// Mobile Number Validation
if (!mobilePattern.test(mobile)) {
    alert("Mobile number must contain exactly 10 digits");
    return false;
}

// Last Name Validation
if (lname === "") {
    alert("Last Name cannot be empty");
    return false;
}

// Address Validation
if (address === "") {
    alert("Address cannot be empty");
    return false;
}
```

```
        alert("Registration Successful!");
        return true;
    }
</script>
</head>

<body>
<h2>Registration Form</h2>

<form onsubmit="return validateForm()">
    First Name:
    <input type="text" id="fname"><br><br>

    Last Name:
    <input type="text" id="lname"><br><br>

    Password:
    <input type="password" id="password"><br><br>

    E-mail:
    <input type="text" id="email"><br><br>

    Mobile Number:
    <input type="text" id="mobile"><br><br>

    Address:
    <textarea id="address"></textarea><br><br>

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

Output:

Registration Form

First Name:

Last Name:

Password:

E-mail:

Mobile Number:

Address:

RESULT:

HTML page with Form is created and is validated using Javascript