

## LAB EXPERIMENT 02

Write JavaScript to validate the following fields of the Registration page.

a) First Name (Name should contains alphabets and the length

Should not be less than 6 characters).

b) Password (Password should not be less than 6 characters length).

c) E-mail id (should not contain any invalid and must follow the

standard pattern name@domain.com)

d) Mobile Number (Phone number should contain 10 digits only).

e) Last Name and Address (should not be Empty).

### **Aim:**

To create a JavaScript function that validates the following fields on a registration page:

1. **First Name** – Should contain only alphabets and should be at least 6 characters long.
2. **Password** – Should be at least 6 characters long.
3. **E-mail ID** – Should follow a standard pattern (name@domain.com).
4. **Mobile Number** – Should contain exactly 10 digits.
5. **Last Name and Address** – Should not be empty.

#### Algorithm:

1. **Create an HTML form:** Structure the form to include fields for First Name, Last Name, Password, E-mail, Mobile Number, and Address.
2. **Add a Submit Button:** This will trigger the validation function when clicked.
3. **Write the JavaScript function:**
  - Validate the **First Name** using a regular expression that allows only alphabets and checks the length.
  - Validate the **Password** to ensure it's at least 6 characters long.

- Validate the **E-mail** using a regular expression to match the standard pattern (name@domain.com).
- Validate the **Mobile Number** to ensure it's a 10-digit number.
- Validate the **Last Name** and **Address** to ensure they are not empty.

4. **Display error messages:** If any field is invalid, show an appropriate error message and prevent the form from submitting.

HTML 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>
```

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

```
</head>
```

```
<body>
```

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

```
    <form id="registrationForm" onsubmit="return  
validateForm()">
```

```
        <label for="firstName">First Name:</label>
```

```
        <input type="text" id="firstName"  
name="firstName">
```

```
        <span id="firstNameError"  
style="color:red;"></span><br><br>
```

```
        <label for="lastName">Last Name:</label>
```

```
        <input type="text" id="lastName"  
name="lastName">
```

```
        <span id="lastNameError"  
style="color:red;"></span><br><br>
```

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

```
<input type="email" id="email" name="email">
```

```
<span id="emailError" style="color:red;"></span><br><br>
```

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

```
<input type="password" id="password" name="password">
```

```
<span id="passwordError" style="color:red;"></span><br><br>
```

```
<label for="mobile">Mobile Number:</label>
```

```
<input type="text" id="mobile" name="mobile">
```

```
<span id="mobileError" style="color:red;"></span><br><br>
```

```
<label for="address">Address:</label>
```

```
<textarea id="address" name="address"></textarea>
```

```
<span id="addressError"
style="color:red;"></span><br><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

```
</body>
```

```
</html>
```

JavaScript Code (script.js):

```
function validateForm() {
```

```
    let isValid = true;
```

```
    // Validate First Name
```

```
    const firstName =
document.getElementById('firstName').value;
```

```
    const firstNameError =
document.getElementById('firstNameError');
```

```
    if (firstName.length < 6 || !/^[A-Za-z]+$/.test(firstName)) {
```

```
        firstNameError.textContent = "First Name should  
contain only alphabets and be at least 6 characters  
long.";
```

```
        isValid = false;
```

```
    } else {
```

```
        firstNameError.textContent = "";
```

```
    }
```

```
// Validate Last Name
```

```
const lastName =  
document.getElementById('lastName').value;
```

```
const lastNameError =  
document.getElementById('lastNameError');
```

```
if (lastName.trim() === "") {
```

```
    lastNameError.textContent = "Last Name should not  
be empty.";
```

```
        isValid = false;

    } else {

        lastNameError.textContent = "";

    }

    // Validate Email

    const email =
document.getElementById('email').value;

    const emailError =
document.getElementById('emailError');

    const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

    if (!emailPattern.test(email)) {

        emailError.textContent = "Please enter a valid email address.";

        isValid = false;

    } else {
```



```
    emailError.textContent = "";  
  
}
```

```
// Validate Password
```

```
const password =  
document.getElementById('password').value;
```

```
const passwordError =  
document.getElementById('passwordError');
```

```
if (password.length < 6) {
```

```
    passwordError.textContent = "Password should be  
at least 6 characters long.";
```

```
    isValid = false;
```

```
} else {
```

```
    passwordError.textContent = "";
```

```
}
```


```
// Validate Mobile Number
```

```
const mobile =  
document.getElementById('mobile').value;  
  
const mobileError =  
document.getElementById('mobileError');  
  
const mobilePattern = /^[0-9]{10}$/;  
  
if (!mobilePattern.test(mobile)) {  
  
    mobileError.textContent = "Mobile Number should  
contain exactly 10 digits.";   
  
    isValid = false;  
  
} else {  
  
    mobileError.textContent = "";  
  
}  
  
  
// Validate Address  
  
const address =  
document.getElementById('address').value;  
  
const addressError =  
document.getElementById('addressError');
```


```
if (address.trim() === "") {  
    addressError.textContent = "Address should not be  
empty.";   
  
    isValid = false;  
  
} else {  
    addressError.textContent = "";  
  
}  
  
return isValid;  
  
}
```

OUTPUT:


## Javascript Validation Form




Username cannot be blank



Email cannot be blank





RESULT :

The registration page ensures that only valid data is submitted by the user, preventing incorrect or incomplete information.