

EX NO:2	<ul style="list-style-type: none"> a) Write JavaScript to validate the following fields of the Registration page. b) First Name (Name should contains alphabets and the length Should not be less than 6 characters). c) Password (Password should not be less than 6 characters length). d) E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com) e) Mobile Number (Phone number should contain 10 digits only). f) Last Name and Address (should not be Empty).
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AIM :

This project aims to design a registration form with robust validation for fields like First Name, Password, Email, Mobile Number, Last Name, and Address, using JavaScript for client-side validation and HTML/CSS for structure and styling.

ALGORITHM :

Start

1. Setup Registration Form:

- Create an HTML form with fields: **First Name, Last Name, Password, Email, Mobile Number, and Address.**
- Add an event listener to validate the form on submission.

2. Capture User Input:

- Retrieve values entered in the form fields using JavaScript
(`document.getElementById`).

3. Validate First Name:

- Ensure the first name contains only alphabets using a **regular expression** (`/^[A-Za-z]+$`).
- Ensure the **length is at least 6 characters.**
- If validation fails, **show an alert message** and prevent form submission.

4. Validate Password:

- Ensure the **password has at least 6 characters.**
- If validation fails, **show an alert message** and prevent form submission.

5. Validate Email:

- Ensure the email follows the **standard format** using a **regular expression** (`/^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/`).
- If validation fails, **show an alert message** and prevent form submission.

6. Validate Mobile Number:

- Ensure the mobile number contains **exactly 10 digits** using a **regular expression** (`/^[0-9]{10}$/`).
- If validation fails, **show an alert message** and prevent form submission.

7. Validate Last Name:

- Ensure the last name **is not empty.**
- If validation fails, **show an alert message** and prevent form submission.

8. Validate Address:

- Ensure the address **is not empty.**
- If validation fails, **show an alert message** and prevent form submission.

9. Submit Form:

- If **all validations pass**, display **"Registration Successful!"** and allow form submission.

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', sans-serif;
    background-color: #f4f7fc;
    margin: 0;
    padding: 0;
    color: #333;
}

h2 {
    text-align: center;
    color: #4CAF50;
    padding-top: 20px;
}

.form-container {
    width: 50%;
    margin: 30px auto;
    padding: 20px;
    background-color: #fff;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}

input, textarea {
    width: 100%;
    padding: 12px;
    margin: 10px 0;
    border-radius: 4px;
    border: 1px solid #ddd;
    font-size: 16px;
}

textarea {
    resize: vertical;
    min-height: 100px;
}

input[type="submit"] {
    background-color: #4CAF50;
    color: white;
    border: none;
```

```
    cursor: pointer;
    font-size:
    18px;
    transition: background-color 0.3s ease; }
input[type="submit"]:hover { background-color:
    #45a049;
}
```

```
label { font-weight:
    bold;      display:
    block;     margin:
    10px 0 5px;
}
```

```
.error-message {
    color:      red;
    font-size:
    14px; display:
    none;
}
```

```
@media screen and (max-width: 768px) {
    .form-container { width:
        90%;
    }
}
</style>
</head>
<body>
```

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

```
<div class="form-container">
<form id="registrationForm">
    <label for="firstName">First Name:</label>
    <input type="text" id="firstName" name="firstName">
    <span class="error-message" id="firstNameError">First Name must contain only alphabets
and be at least 6 characters long.</span>
```

```
    <label for="lastName">Last Name:</label>
    <input type="text" id="lastName" name="lastName">
    <span class="error-message" id="lastNameError">Last Name cannot be empty.</span>
```

```
    <label for="password">Password:</label>
    <input type="password" id="password" name="password">
    <span class="error-message" id="passwordError">Password must be at least 6 characters
long.</span>
```

```

<label for="email">Email:</label>
<input type="email" id="email" name="email">
<span class="error-message" id="emailError">Please enter a valid email address.</span>

<label for="mobile">Mobile Number:</label>
<input type="text" id="mobile" name="mobile">
<span class="error-message" id="mobileError">Mobile number must be exactly 10 digits
long.</span>
<label for="address">Address:</label>
<textarea id="address" name="address"></textarea>
<span class="error-message" id="addressError">Address cannot be empty.</span>

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

<script>
document.getElementById("registrationForm").addEventListener("submit", function(event) {
    let isValid = true;

    const firstName = document.getElementById("firstName").value;
    const lastName = document.getElementById("lastName").value;
    const password = document.getElementById("password").value;
    const email = document.getElementById("email").value; const
    mobile = document.getElementById("mobile").value; const
    address = document.getElementById("address").value;

    const namePattern = /^[A-Za-z]+$;/
    const emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/; const
    mobilePattern = /^[0-9]{10}$/;

    function showError(id, condition) { const errorElement
        = document.getElementById(id); if (condition) {
            errorElement.style.display = "block"; isValid = false;
        } else { errorElement.style.display =
            "none"; } }

    showError("firstNameError", !namePattern.test(firstName) || firstName.length <
    6); showError("lastNameError", lastName.trim() === "");
    showError("passwordError", password.length < 6); showError("emailError",
    !emailPattern.test(email)); showError("mobileError", !mobilePattern.test(mobile));
    showError("addressError", address.trim() === "");

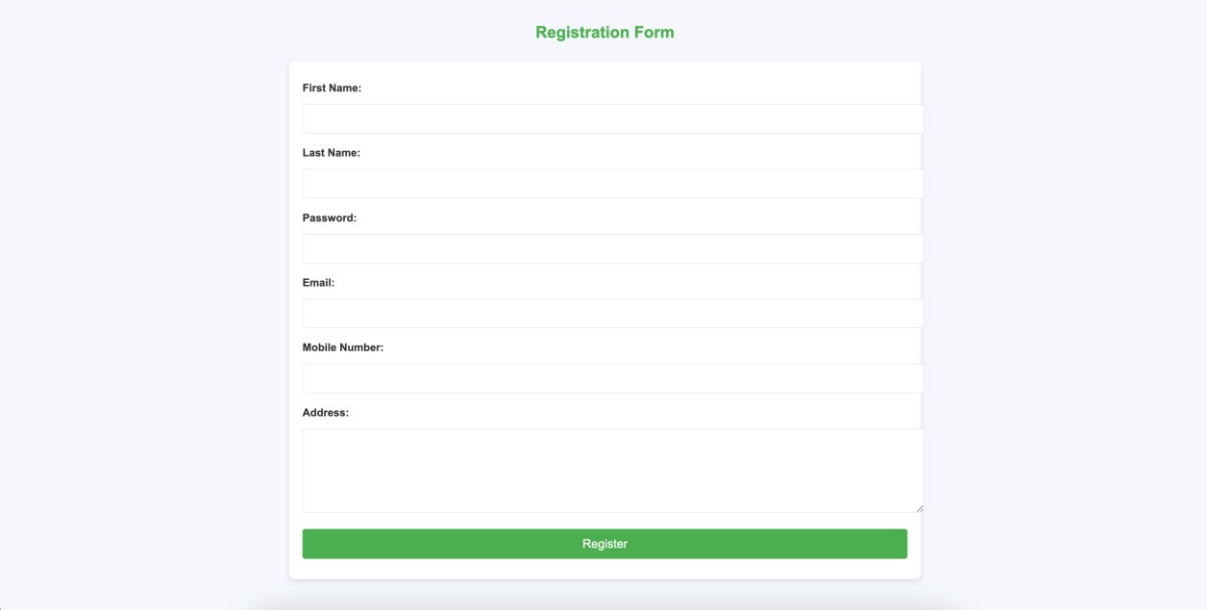
    if (!isValid) { event.preventDefault();
        } else { alert("Registration
        Successful!"); }
    });
</script>
</body>

```

</html>

}

OUTPUT :



The image shows a web form titled "Registration Form" in green text at the top center. The form is a white box with a light green border, containing several input fields and a submit button. The fields are labeled "First Name:", "Last Name:", "Password:", "Email:", "Mobile Number:", and "Address:". The "Address:" field is a larger text area. At the bottom of the form is a green button labeled "Register".

Registration Form

First Name:

Last Name:

Password:

Email:

Mobile Number:

Address:

Register

RESULT :

Thus the give task is executed successfully.