

EXP 2: Date:	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}$/;

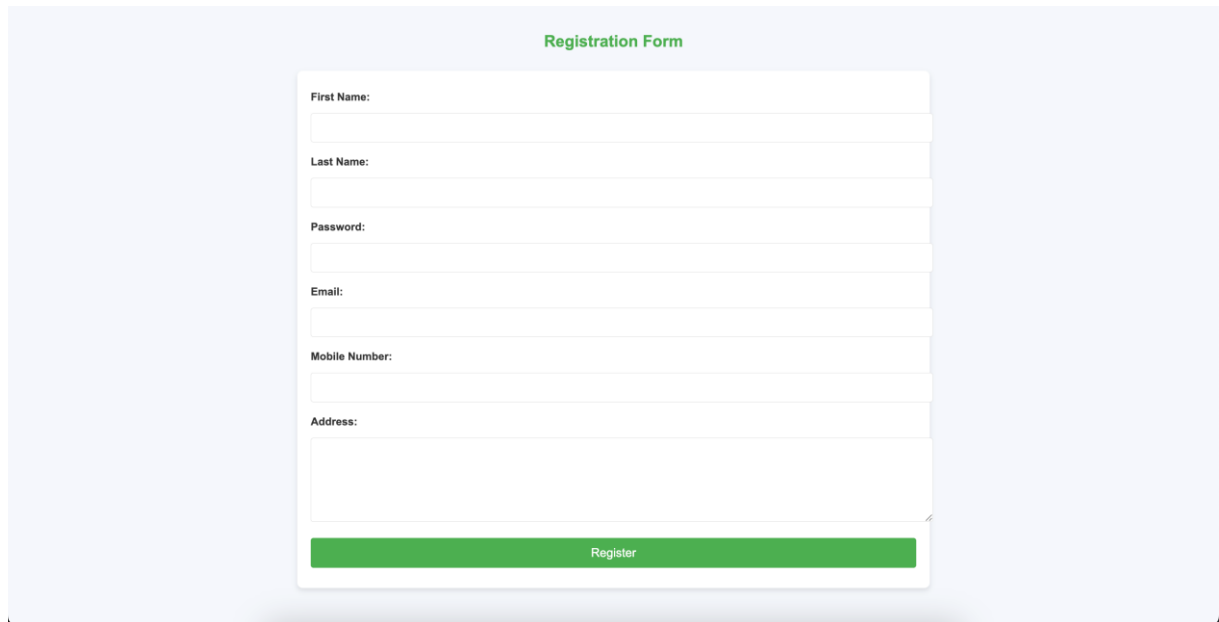
  function showError(id, condition) {
    const errorElement = document.getElementById(id);
    if (condition) {
      errorElement.style.display = "block";
      isValid = false;
    } else {
      errorElement.style.display = "none";
    }
  }

  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 :



A screenshot of a web application showing a registration form. The form is titled "Registration Form" in green text at the top. It contains several input fields for user information: First Name, Last Name, Password, Email, Mobile Number, and Address. Each field is a white rectangle with a thin border. Below the Address field is a green button labeled "Register". The entire form is centered on a light blue background.

Registration Form

First Name:

Last Name:

Password:

Email:

Mobile Number:

Address:

Register

RESULT :

Thus the give task is executed successfully.