

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: #1e1e2f;
    margin: 0;
    padding: 0;
    color: #fff;
    text-align: center;
}

h2 {
    color: #ffcc00;
    padding-top: 20px;
}

.form-container {
    width: 40%;
    margin: 30px auto;
    padding: 25px;
    background-color: #29293d;
    border-radius: 10px;
    box-shadow: 0 6px 12px rgba(255, 255, 255, 0.2);
}

input, textarea {
    width: 100%;
    padding: 12px;
    margin: 10px 0;
    border-radius: 6px;
    border: none;
    font-size: 16px;
    background-color: #1e1e2f;
    color: #fff;
}

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

input[type="submit"] {
    background-color: #ffcc00;
    color: #000;
    font-weight: bold;
```

```
border: none;
cursor: pointer;
font-size: 18px;
padding: 12px;
transition: 0.3s ease;
}
```

```
input[type="submit"]:hover {
  background-color: #e6b800;
}
```

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

```
.error-message {
  color: #ff4d4d;
  font-size: 14px;
  display: none;
}
```

```
@media screen and (max-width: 768px) {
  .form-container {
    width: 90%;
  }
}
```

</style>

</head>

<body>

<h2>Enhanced Registration Form</h2>

<div class="form-container">

<form id="registrationForm">

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

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

First Name must contain only alphabets and be at least 6 characters long.

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

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

Last Name cannot be empty.

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

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

Password must be at least 6 characters long.

<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";
        }
    }

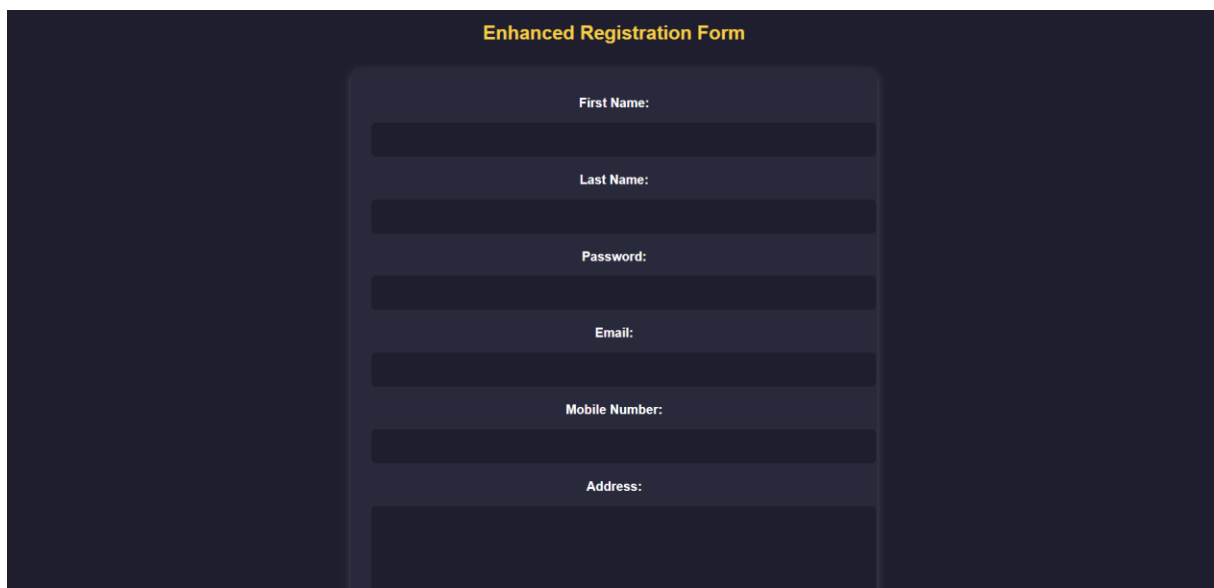
    showError("firstNameError", !namePattern.test(firstName) || firstName.length < 6);
    showError("lastNameError", lastName.trim() === "");
    showError("passwordError", password.length < 6);
    showError("emailError", !emailPattern.test(email));
    showError("mobileError", !mobilePattern.test(mobile));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

    if (!isValid) {
        event.preventDefault();
    } else {
        alert("Registration Successful!");
    }
}

```

```
});  
  
</script>  
  
</body>  
</html>
```

OUTPUT :



The image shows a web form titled "Enhanced Registration Form" with a dark blue background. The form is centered and contains six input fields, each with a label above it: "First Name:", "Last Name:", "Password:", "Email:", "Mobile Number:", and "Address:". The labels are in a light blue font, and the input fields are dark blue with light blue borders. The form is set against a dark blue background with a subtle grid pattern.

RESULT :

Thus the give task is executed successfully.