

EXP NO:1

DATE:06/01/2026

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:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Elegant Registration Form</title>
```

```
  <style>
```

```
    body {
```

```
      margin: 0;
```

```
      padding: 0;
```

```
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
background: linear-gradient(to right, #eef2f3, #dfe9f3);  
}
```

```
h1 {  
  text-align: center;  
  margin-top: 40px;  
  color: #2c3e50;  
  font-weight: 600;  
}
```

```
.form-box {  
  width: 420px;  
  margin: 40px auto;  
  padding: 30px;  
  background: #ffffff;  
  border-radius: 12px;  
  box-shadow: 0 10px 25px rgba(0, 0, 0, 0.08);  
}
```

```
label {  
  display: block;  
  margin-top: 15px;  
  font-weight: 500;  
  color: #34495e;  
}
```

```
input, textarea {  
    width: 100%;  
    padding: 10px;  
    margin-top: 6px;  
    border-radius: 6px;  
    border: 1px solid #ccd6dd;  
    font-size: 14px;  
    transition: 0.3s ease;  
}
```

```
input:focus, textarea:focus {  
    outline: none;  
    border-color: #5dade2;  
    box-shadow: 0 0 5px rgba(93, 173, 226, 0.4);  
}
```

```
button {  
    width: 100%;  
    margin-top: 25px;  
    padding: 12px;  
    background-color: #2c3e50;  
    color: white;  
    border: none;  
    border-radius: 8px;  
    font-size: 16px;  
    font-weight: 500;  
    cursor: pointer;
```

```
    transition: 0.3s ease;
}
```

```
button:hover {
    background-color: #1a252f;
}
```

```
footer {
    text-align: center;
    margin-top: 30px;
    color: #7f8c8d;
    font-size: 14px;
}
```

```
</style>
```

```
<script>
```

```
function validateForm() {

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

    var namePattern = /^[A-Za-z]+$/;
    var emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
```

```
var mobilePattern = /^[0-9]{10}$/;
```

```
if (!namePattern.test(fname)) {  
    alert("First Name must contain only alphabets.");  
    return false;  
}
```

```
if (fname.length < 6) {  
    alert("First Name must be at least 6 characters long.");  
    return false;  
}
```

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

```
if (!emailPattern.test(email)) {  
    alert("Please enter a valid Email ID (example: name@domain.com).");  
    return false;  
}
```

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

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

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

```
    alert("Form submitted successfully!");  
    return true;  
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1>Registration Form</h1>
```

```
<div class="form-box">
```

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

```
        <label>First Name</label>
```

```
        <input type="text" id="fname">
```

```
        <label>Last Name</label>
```

<input type="text" id="lname">

<label>Password</label>

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

<label>E-mail</label>

<input type="text" id="email">

<label>Mobile Number</label>

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

<label>Address</label>

<textarea id="address" rows="3"></textarea>

<button type="submit">Submit</button>

</form>

</div>

<footer>

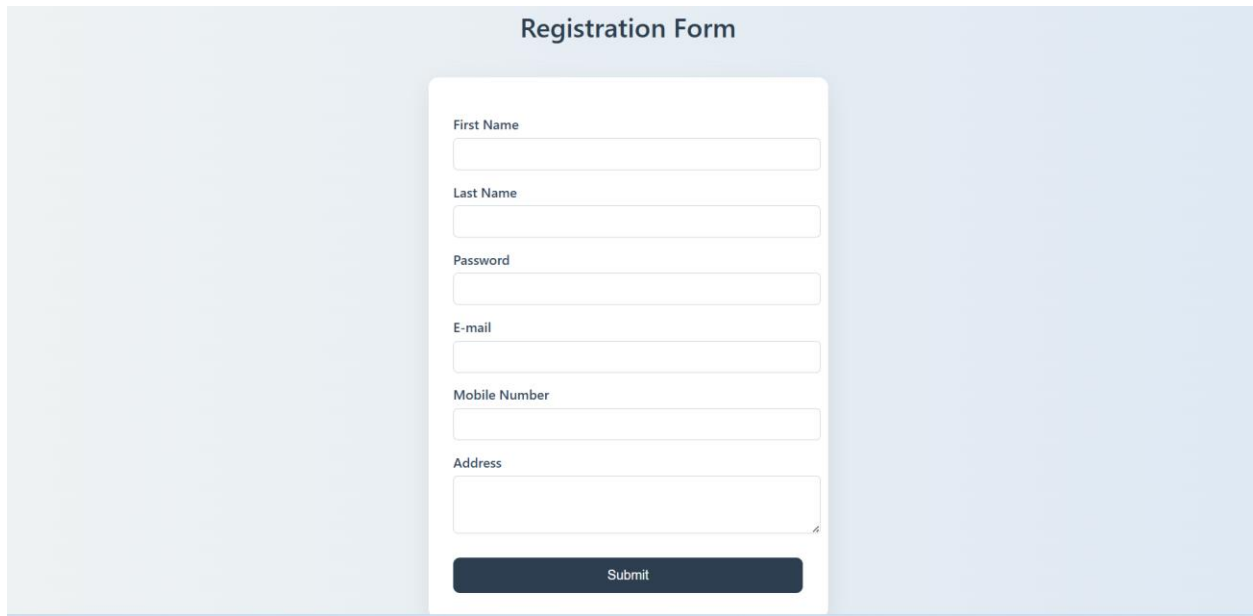
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</footer>

</body>

</html>

OUTPUT:



A registration form titled "Registration Form" is displayed on a light blue background. The form is a white card with rounded corners and a subtle shadow. It contains the following fields: First Name, Last Name, Password, E-mail, Mobile Number, and Address. Each field is a white input box with a thin grey border. Below the Address field is a dark blue "Submit" button with white text. The form is centered on the page.

Registration Form

First Name

Last Name

Password

E-mail

Mobile Number

Address

Submit

RESULT:

HTML page with Form is created and is validated using Javascript