

EXPERIMENT-2

WEB PAGE USING JAVASCRIPT

AIM:

To validate the user input in the Registration page using JavaScript, ensuring that all fields meet the required rules for correctness and format before form submission.

ALGORITHM:

- 1. Start**
2. Get the values of all fields from the registration form:
 - First Name
 - Last Name
 - Password
 - Email
 - Mobile Number
 - Address
- 3. Validate First Name**
 - Check if it contains only alphabets.
 - Check if the length is **≥ 6 characters**.
 - If not valid, show an error message and stop.
- 4. Validate Password**
 - Check if the length is **≥ 6 characters**.
 - If not valid, show an error message and stop.
- 5. Validate Email**
 - Check if it matches the standard pattern **name@domain.com**
 - If not valid, show an error message and stop.
- 6. Validate Mobile Number**
 - Check if it contains only digits.
 - Check if the length is exactly **10 digits**.
 - If not valid, show an error message and stop.
- 7. Validate Last Name**
 - Check if it is not empty.
 - If empty, show an error message and stop.
- 8. Validate Address**
 - Check if it is not empty.
 - If empty, show an error message and stop.
9. If all fields are valid:
 - Display message: **“Form Submitted Successfully!”**
- 10. End**

CODE:**Register.html:**

```
<!DOCTYPE html>

<html>
<head>
<title>Register</title>

<style>
body {
    margin: 0;
    height: 100vh;
    background-image: url("School image.png");
    background-size: 50%;      /* Control image size here */
    background-repeat: no-repeat;
    background-position: center bottom;
    background-attachment: fixed;
    background-color: #423f3f;
    font-family: Arial, Helvetica, sans-serif;
}

display: flex;
justify-content: center;
align-items: center;
}

.form-container {
```

```
background: rgba(95, 91, 91, 0.95);  
padding: 30px 40px;  
border-radius: 12px;  
box-shadow: 0 8px 20px rgba(0,0,0,0.2);  
width: 350px;  
}
```

```
h2 {  
text-align: center;  
margin-bottom: 20px;  
}
```

```
table {  
width: 100%;  
}
```

```
td {  
padding: 8px 0;  
}
```

```
input, textarea {  
width: 100%;  
padding: 8px;  
border-radius: 6px;  
border: 1px solid #ccc;
```

```
    font-size: 14px;  
}  
  
textarea {  
    resize: none;  
}  
  
button {  
    width: 100%;  
    padding: 10px;  
    margin-top: 10px;  
    background-color: #4CAF50;  
    color: white;  
    border: none;  
    border-radius: 6px;  
    font-size: 16px;  
    cursor: pointer;  
}  
  
button:hover {  
    background-color: #45a049;  
}  
</style>  
</head>
```

```
<body>

<div class="form-container">
    <h2>Registration Form</h2>

    <form onsubmit="return validateForm()" action="#">
        <table>
            <tr>
                <td>First Name</td>
            </tr>
            <tr>
                <td><input type="text" id="fname"></td>
            </tr>
            <tr>
                <td>Last Name</td>
            </tr>
            <tr>
                <td><input type="text" id="lname"></td>
            </tr>
            <tr>
                <td>Password</td>
            </tr>
            <tr>
```

```
<td><input type="password" id="password"></td>
</tr>

<tr>
    <td>Email</td>
</tr>
<tr>
    <td><input type="text" id="email"></td>
</tr>

<tr>
    <td>Mobile Number</td>
</tr>
<tr>
    <td><input type="text" id="mobile"></td>
</tr>

<tr>
    <td>Address</td>
</tr>
<tr>
    <td><textarea id="address" rows="3"></textarea></td>
</tr>

<tr>
```

```
<td>

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

</td>

</tr>

</table>

</form>

</div>

<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]{3,}$/;

    if (!namePattern.test(fname)) {

        alert("First Name must contain only alphabets and minimum 3 characters");

        return false;

    }

    if (lname === "") {
```

```
        alert("Last Name should not be empty");

        return false;
    }

    if (password.length < 6) {

        alert("Password must be at least 6 characters long");

        return false;
    }

var emailPattern = /^[^@]+@[^@]+\.[^@]+$/;

if (!emailPattern.test(email)) {

    alert("Please enter a valid Email ID");

    return false;
}

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

if (!mobilePattern.test(mobile)) {

    alert("Mobile Number must contain exactly 10 digits");

    return false;
}

if (address === "") {

    alert("Address should not be empty");

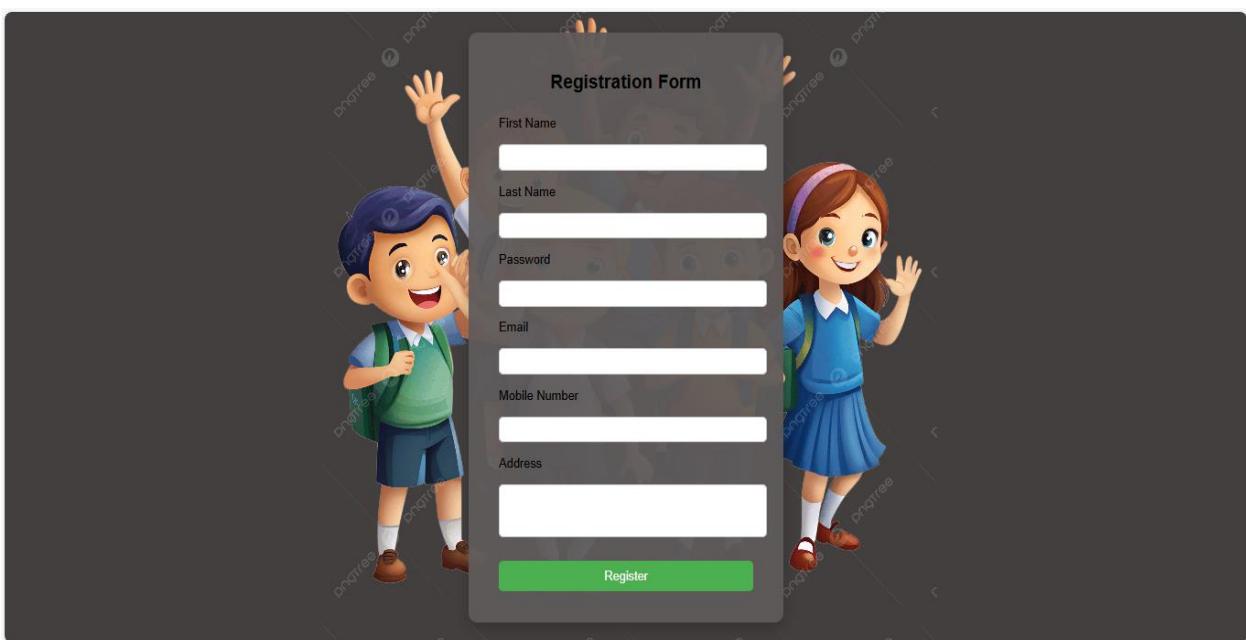
    return false;
}
```

```
        alert("Registration Successful!");  
        return true;  
    }  
}
```

```
</body>
```

```
</html>
```

Output :



RESULT:

Thus the webpage is created using JavaScript(JS)

