

## 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  $\geq 6$  characters.
    - If not valid, show an error message and stop.
  4. **Validate Password**
    - Check if the length is  $\geq 6$  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 = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
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;
}
```

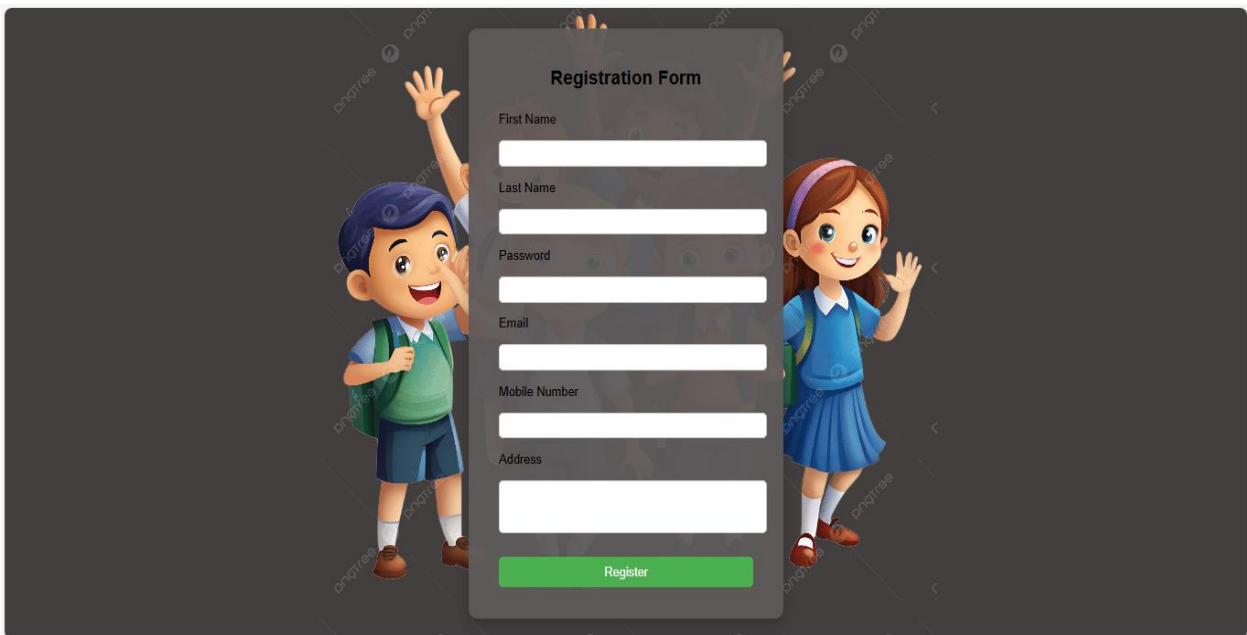


```
    alert("Registration Successful!");  
    return true;  
}  
</script>
```

```
</body>
```

```
</html>
```

**Output :**



The image shows a registration form titled "Registration Form" centered on a dark gray background. The form has six input fields: "First Name", "Last Name", "Password", "Email", "Mobile Number", and "Address". Below these fields is a green button labeled "Register". To the left of the form is a cartoon illustration of a boy with blue hair, wearing a green shirt and blue shorts, with his arms raised. To the right is a cartoon illustration of a girl with brown hair, wearing a blue dress and a pink headband, also with her arms raised. The background has a faint, repeating watermark of the word "pngtree".

**RESULT:**

Thus the webpage is created using JavaScript(JS)

