

# **WEB TECHNOLOGY AND MOBILE APPILCATION**

## **EXPERIMENT 2**

### **AIM:**

Write JavaScript to validate the following fields of the Registration page.

- a) First Name (Name should contains alphabets and the length Should not be less than 6 characters).
- b) Password (Password should not be less than 6 characters length).
- c) E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)
- d) Mobile Number (Phone number should contain 10 digits only).
- e) Last Name and Address (should not be Empty).When all the details are given correctly display message Account is created.

### **ALGORITHM:**

**Step 1:** Start

**Step 2:** Collect input values for First Name, Last Name, Address, Password, Email, and Mobile Number.

**Step 3:** Validate First Name – check if it contains only alphabets and is at least 6 characters long.

**Step 4:** Validate other fields –

- Last Name and Address are not empty
- Password is at least 6 characters
- Email matches name@domain.com format
- Mobile Number is exactly 10 digits

**Step 5:** If any field is invalid, show an error message and stop.

**Step 6:** If all fields are valid, display "Account is created" message.

## Step 7: End

### CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Registration Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background: #f4f4f4;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }

    .container {
      background: white;
      padding: 30px 40px;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0,0,0,0.1);
      width: 350px;
    }
```

```
h2 {  
    text-align: center;  
    margin-bottom: 20px;  
    color: #333;  
}
```

```
input[type="text"],  
input[type="password"] {  
    width: 100%;  
    padding: 10px;  
    margin: 8px 0 16px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    box-sizing: border-box;  
}
```

```
input[type="submit"] {  
    width: 100%;  
    padding: 10px;  
    background-color: #28a745;  
    color: white;  
    border: none;  
    border-radius: 5px;  
    cursor: pointer;  
    font-size: 16px;
```

```
}
```

```
input[type="submit"]:hover {  
    background-color: #218838;  
}
```

```
.error {  
    color: red;  
    font-size: 13px;  
    margin-top: -12px;  
    margin-bottom: 10px;  
    display: none;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h2>Register</h2>
```

```
<form name="registrationForm" onsubmit="return validateForm();">
```

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

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

```
<div class="error" id="firstNameError">Invalid first name</div>
```

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

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

```
<div class="error" id="lastNameError">Last name cannot be empty</div>
```

```
<label>Address:</label>
```

```
<input type="text" name="address">
```

```
<div class="error" id="addressError">Address cannot be empty</div>
```

```
<label>Password:</label>
```

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

```
<div class="error" id="passwordError">Password must be at least 6  
characters</div>
```

```
<label>Email:</label>
```

```
<input type="text" name="email">
```

```
<div class="error" id="emailError">Enter a valid email address</div>
```

```
<label>Mobile Number:</label>
```

```
<input type="text" name="mobile">
```

```
<div class="error" id="mobileError">Enter a 10-digit mobile number</div>
```

```
<input type="submit" value="Create Account">
```

```
</form>
```

```
</div>
```

```
<script>
```

```
function validateForm() {
```

```
let valid = true;
```

```
const firstName =  
document.forms["registrationForm"]["firstName"].value.trim();
```

```
const lastName =  
document.forms["registrationForm"]["lastName"].value.trim();
```

```
const address = document.forms["registrationForm"]["address"].value.trim();
```

```
const password = document.forms["registrationForm"]["password"].value;
```

```
const email = document.forms["registrationForm"]["email"].value.trim();
```

```
const mobile = document.forms["registrationForm"]["mobile"].value.trim();
```

```
const namePattern = /^[A-Za-z]{6,}$/;
```

```
const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$/;
```

```
const mobilePattern = /^\d{10}$/;
```

```
// Reset all error messages
```

```
document.querySelectorAll('.error').forEach(el => el.style.display = 'none');
```

```
// First Name
```

```
if (!namePattern.test(firstName)) {
```

```
    document.getElementById('firstNameError').style.display = 'block';
```

```
    valid = false;
```

```
}
```

```
// Last Name
```

```
if (lastName === "") {
```

```
document.getElementById('lastNameError').style.display = 'block';  
valid = false;  
}
```

```
// Address
```

```
if (address === "") {  
    document.getElementById('addressError').style.display = 'block';  
    valid = false;  
}
```

```
// Password
```

```
if (password.length < 6) {  
    document.getElementById('passwordError').style.display = 'block';  
    valid = false;  
}
```

```
// Email
```

```
if (!emailPattern.test(email)) {  
    document.getElementById('emailError').style.display = 'block';  
    valid = false;  
}
```

```
// Mobile Number
```

```
if (!mobilePattern.test(mobile)) {  
    document.getElementById('mobileError').style.display = 'block';  
}
```

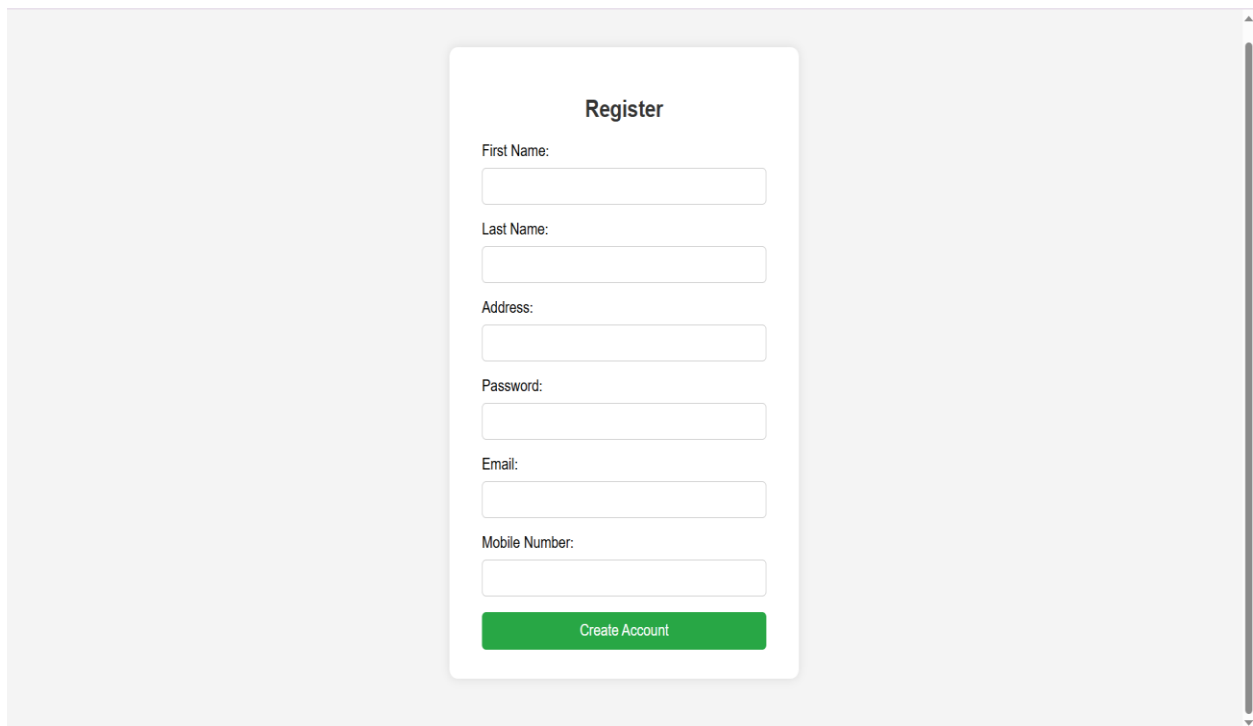
```
        valid = false;
    }

    if (valid) {
        alert("Account Created Successfully.");
    }

    return valid;
}
</script>

</body>
</html>
```

## OUTPUT:



**Register**

First Name:

Last Name:

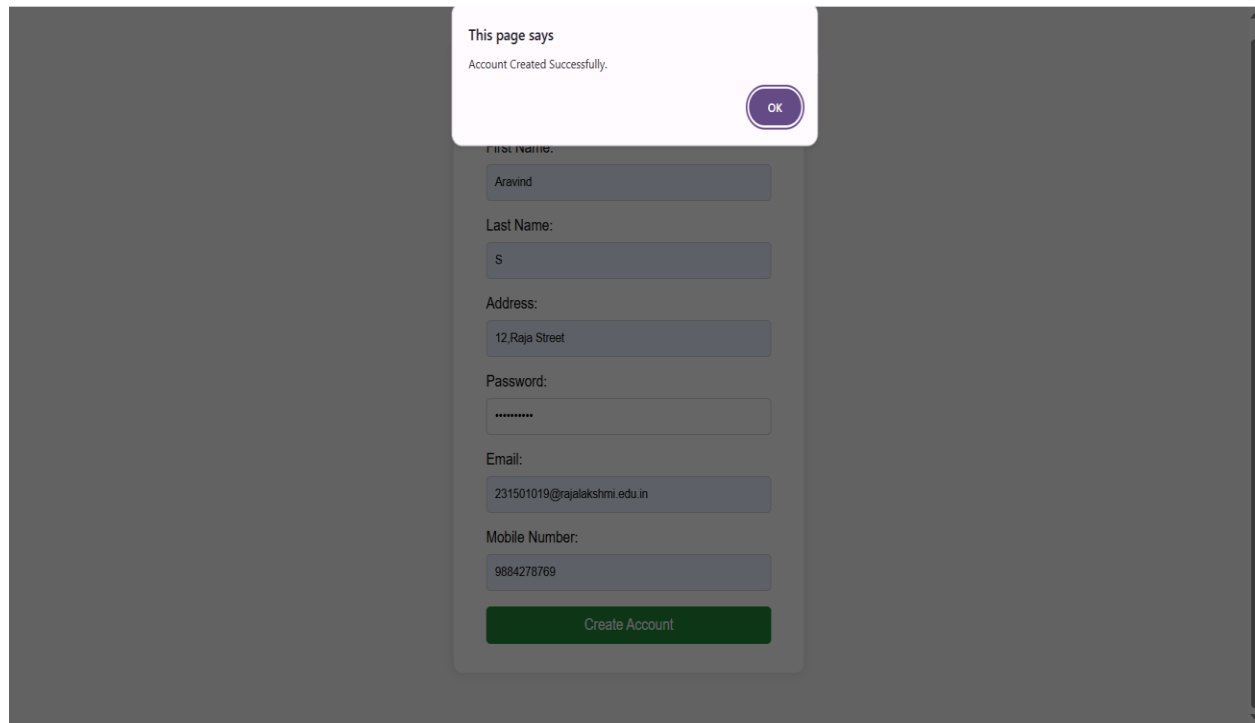
Address:

Password:

Email:

Mobile Number:





The image shows a registration form with a success message overlay. The form fields are: First Name (Aravind), Last Name (S), Address (12, Raja Street), Password (masked with dots), Email (231501019@rajalakshmi.edu.in), and Mobile Number (9884278769). A green 'Create Account' button is at the bottom. A white modal box at the top center displays the message 'This page says Account Created Successfully.' with an 'OK' button.

This page says  
Account Created Successfully.

OK

First Name:  
Aravind

Last Name:  
S

Address:  
12, Raja Street

Password:  
\*\*\*\*\*

Email:  
231501019@rajalakshmi.edu.in

Mobile Number:  
9884278769

Create Account

**RESULT :** The fields of the registration page are validated using Javascript successfully.