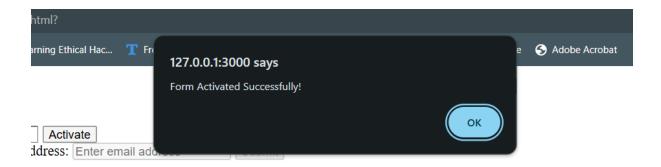# Experiment 4

Design a web-based application that enhances user interactivity by implementing a password-protected activation mechanism for input fields. The application prompts users to enter a password to activate textboxes, subsequently validating the format of mobile numbers and email addresses entered by the user.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Secure Form with Validation</title>
    <link rel="stylesheet" href="styles.css">
    <script src="script.js" defer></script>
</head>
<body>
    <div class="container">
        <h2>Secure Form Activation</h2>
        <div id="password-section">
            <label for="password">Enter Activation Password:</label>
            <input type="password" id="password">
            <button onclick="activateForm()">Activate</button>
        </div>

        <form id="user-form" onsubmit="return validateForm()">
            <label for="mobile">Mobile Number:</label>
            <input type="text" id="mobile" placeholder="Enter 10-digit mobile
number" disabled>

            <label for="email">Email Address:</label>
            <input type="text" id="email" placeholder="Enter email address"
disabled>

            <button type="submit" id="submit-btn" disabled>Submit</button>
        </form>
    </div>
</body>
</html>
```

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```javascript
const correctPassword = "secure123"; // Change this to your required password

function activateForm() {
    let passwordInput = document.getElementById("password").value;

    if (passwordInput === correctPassword) {
        document.getElementById("mobile").disabled = false;
        document.getElementById("email").disabled = false;
        document.getElementById("submit-btn").disabled = false;
        alert("Form Activated Successfully!");
    } else {
        alert("Incorrect Password! Access Denied.");
    }
}

function validateForm() {
    let mobileNumber = document.getElementById("mobile").value;
    let email = document.getElementById("email").value;

    // Regular expression to validate mobile number (10 digits)
    var mobileRegex = /^\d{10}$/;
    if (!mobileRegex.test(mobileNumber)) {
        alert("Mobile number is not correct.\nIt should be exactly 10
digits.");
        return false;
    }

    // Regular expression to validate email format
    var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    if (!emailRegex.test(email)) {
        alert("Email is not correct.\nEmail must be in the format:
user@example.com");
        return false;
    }

    // Show confirmation before submitting
    return confirm("Are you sure you want to submit the form?");
}
```

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```css
body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f4f4f4;
    margin: 0;
    padding: 0;
}

.container {
    background: white;
    width: 40%;
    margin: 50px auto;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}

h2 {
    color: #333;
}

input {
    width: 90%;
    padding: 10px;
    margin: 10px 0;
    border: 1px solid #ccc;
    border-radius: 5px;
    font-size: 16px;
}

button {
    background: #007BFF;
    color: white;
    padding: 10px 15px;
    font-size: 16px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

button:hover {
    background: #0056b3;
}

button:disabled {
    background: #ccc;
    cursor: not-allowed;
}
```

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Secure Form Activation

Enter Activation Password: [••••••••] [Activate]
Mobile Number: [Enter 10-digit mobile number] Email Address: [Enter email add...]

Incorrect Password! Access Denied.

[OK]

---

html?

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127.0.0.1:3000 says

Form Activated Successfully!

[OK]

[Activate]
ddress: [Enter email add...]

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