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AIML-FS1
ASSIGNMENT-4

Objective:

The objective of this assignment is to develop 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 unlock the form fields and subsequently validates the mobile number and email address entered by the user.

The main goals of this project are:

1. Implement a password-based activation for form fields.
2. Validate the mobile number (must be 10 digits).
3. Validate the email address (must follow a standard email format).
4. Provide alerts when incorrect data is entered.
5. Display a confirmation box before submission.

Technologies & Tags Used:

- **HTML:** Used for structuring the web page, including input fields and buttons.

- **CSS:** Used to enhance the user interface, including button colors and layout styling.
- **JavaScript:** Used for implementing:
    - Password-based activation of form fields.
    - Validation of mobile numbers using regex `(/^\d{10}$/)`.
    - Validation of email addresses using regex `(/^[^\s@]+@[^\s@]+\.[^\s@]+$/)`.
    - Alerts and confirmation prompts before form submission.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Password-Protected Form</title>
    <style>
        body { font-family: Arial, sans-serif; text-align: center; margin:
50px; background-color: #add8e6; }
        .container { max-width: 400px; margin: auto; padding: 20px;
border: 1px solid #ccc; border-radius: 10px; background-color: white; }
        input { width: 100%; padding: 8px; margin: 10px 0; }
        button { width: 100%; padding: 10px; color: white; border: none;
cursor: pointer; }
        button:disabled { background-color: gray; }
        button.activate-btn { background-color: green; }
        button.submit-btn { background-color: blue; }
    </style>
</head>
<body>
    <div class="container">
        <h2>Secure Input Form</h2>
```

```html
    <label for="password">Enter Password to Activate:</label>
    <input type="password" id="password">
    <button class="activate-btn"
onclick="activateFields()">Activate</button>
    <br><br>
    <label for="mobile">Mobile Number:</label>
    <input type="text" id="mobile" disabled>
    <label for="email">Email Address:</label>
    <input type="text" id="email" disabled>
    <button id="submitBtn" class="submit-btn" onclick="validateForm()"
disabled>Submit</button>
  </div>

  <script>
    function activateFields()
        { const passwordInput =
document.getElementById("password").value.trim();

        if (passwordInput.length > 0) {  // Any password will activate
the fields
            document.getElementById("mobile").disabled = false;
            document.getElementById("email").disabled = false;
            document.getElementById("submitBtn").disabled = false;
            alert("Fields activated successfully!");
        } else {
            alert("Please enter a password to activate the form.");

        }
    }

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

        var mobileRegex = /^\d{10}$/;
        var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

        if (!mobileRegex.test(mobileNumber)) {
            alert("Mobile number is not correct. It should be a
10-digit number.");
            return;
```

```
                }

                if (!emailRegex.test(email)) {
                    alert("Email is not correct. Format: user@example.com");
                    return;
                }

                if (confirm("Are you sure you want to submit?")) {
                    alert("Form submitted successfully!");
                }
            }
        </script>
    </body>
</html>
```

Secure Input Form

Enter Password to Activate:

Activate

Mobile Number:

Email Address:

Submit

Secure Input Form

Enter Password to Activate:

....

Activate

Mobile Number:

9687553321

Email Address:

aryabarai30@gmail.com

Submit

Secure Input Form

Enter Password to Activate:

....

Activate

Mobile Number:

80037447896

Email Address:

ARYA111GMAIL.COM

Submit

Secure Input Form

Enter Password to Activate:

••••••••

Activate

Mobile Number:

8003744789

Email Address:

ARYA111GMAIL.COM

Submit