



॥वसुधैव कुटुम्बकम्॥



FULL STACK DEVELOPMENT ASSIGNMENT - 4

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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.

Description

The provided HTML code constitutes a basic web form designed for input validation, with additional functionality requiring a password for activation. The page features a simple layout with a title "Password please?" and some minimal styling applied to ensure readability and visual coherence. Within the form, two input fields are present: one for entering a mobile number and another for an email address. Initially, both fields are disabled, preventing user interaction until activation.

A button labeled "Activate Textboxes" is provided, triggering the `activateTextboxes()` function upon clicking. This function prompts users to input a password, requiring the correct password "1234" for enabling the previously disabled input fields. Once activated, users can proceed to enter their mobile number and email address into the respective fields.

Upon submission of the form by clicking the "Submit" button, the `submitForm(event)` function is invoked. This function first prevents the default form submission behavior using `event.preventDefault()`, enabling custom validation processes. It then retrieves the entered values from the mobile number and email fields, performing a series of checks.

These validation checks include ensuring both fields are filled out, verifying the mobile number follows a specific format (10 digits), and validating the email address format using a regular expression. If any validation fails, an appropriate alert message is displayed, prompting users to correct their input. Conversely, if all validations pass, a success message is shown, indicating that the form has been submitted successfully.

Commented source code

```
<html>
  <head>
    <title>Password please?</title>
    <style>
      body {
        font-family: Arial, sans-serif;
        display: flex;
      }
      label {
        font-weight: bold;
      }
    </style>
  </head>
  <body>
    <form id="DataForm">
      <h1>Form Validation Activation</h1>

      <!-- Mobile number -->
      <label for = "mobile"> Mobile Number :</label>
      <input type="text" name="mobile" id="mobile" placeholder="Enter your mobile number" disabled>

      <br> <br>

      <!-- Email -->
      <label for = "email"> Email :</label>
      <input type="email" name="email" id="email" placeholder="Enter your email address" disabled>

      <br> <br> <br> <br>

      <!-- Buttons -->
      <input type="button" value="Activate Textboxes" onclick="activateTextboxes()" >
      <input type="submit" value="Submit" onclick="submitForm(event)">
    </form>
  </body>
</html>
```

Commented source code

```
<script>
function activateTextboxes() {

    // Prompt for password
    var password = prompt('Enter password:');
    if (password !== '1234') {
        alert('Incorrect password!');
        return;
    }

    // Enable textboxes
    document.getElementById('mobile').disabled = false;
    document.getElementById('email').disabled = false;
}

function submitForm(event) {
    event.preventDefault(); // Prevent form submission

    var mobileNumber = document.getElementById('mobile').value;
    var email = document.getElementById('email').value;

    // Check for empty fields
    if (mobileNumber.trim() === '' || email.trim() === '') {
        alert('Mobile number and email are required fields.');
```

```
        return;
    }

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

    if (!mobileRegex.test(mobileNumber)) {
        alert('Mobile number is not correct.');
```

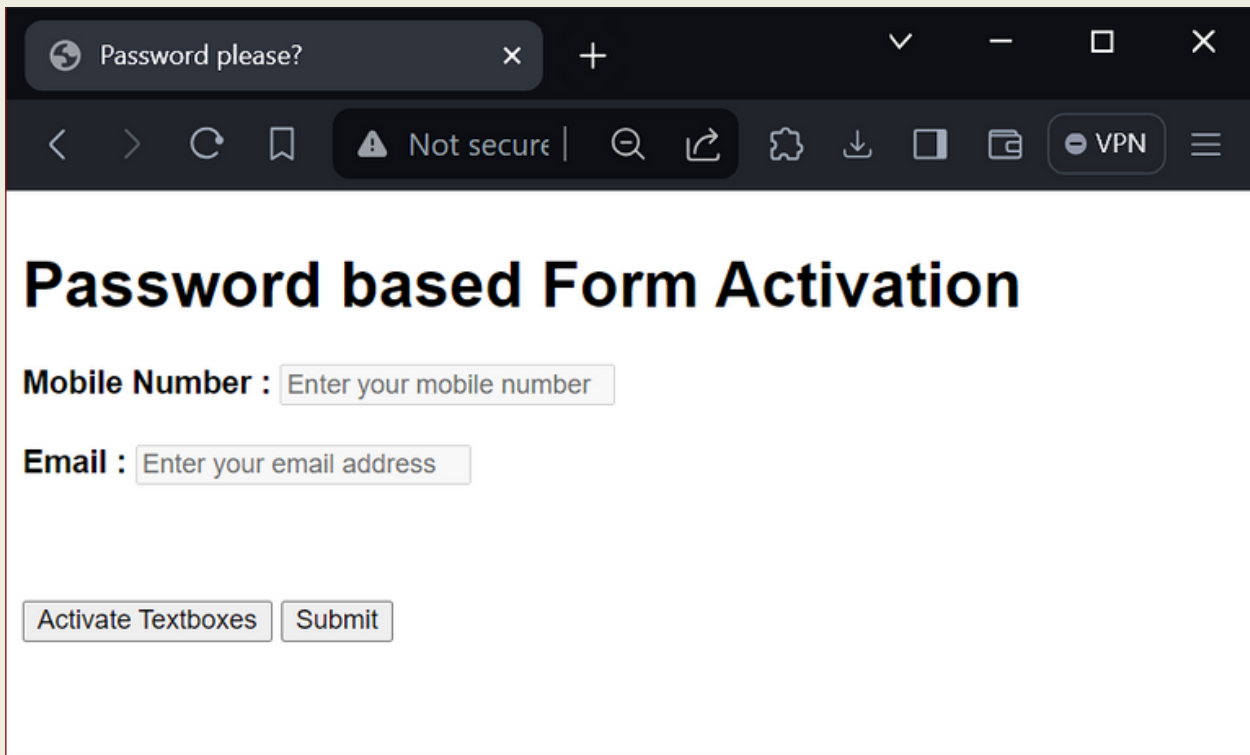
```
        return;
    }

    // Check for valid email
    if (!emailRegex.test(email)) {
        alert('Email is not correct.\nEmail must be in the format: user@example.com');
```

```
        return;
    }

    // If everything is fine, you can submit the form
    alert('Form submitted successfully!');
    document.getElementById('Dataform').submit();
}
</script>
</body>
```

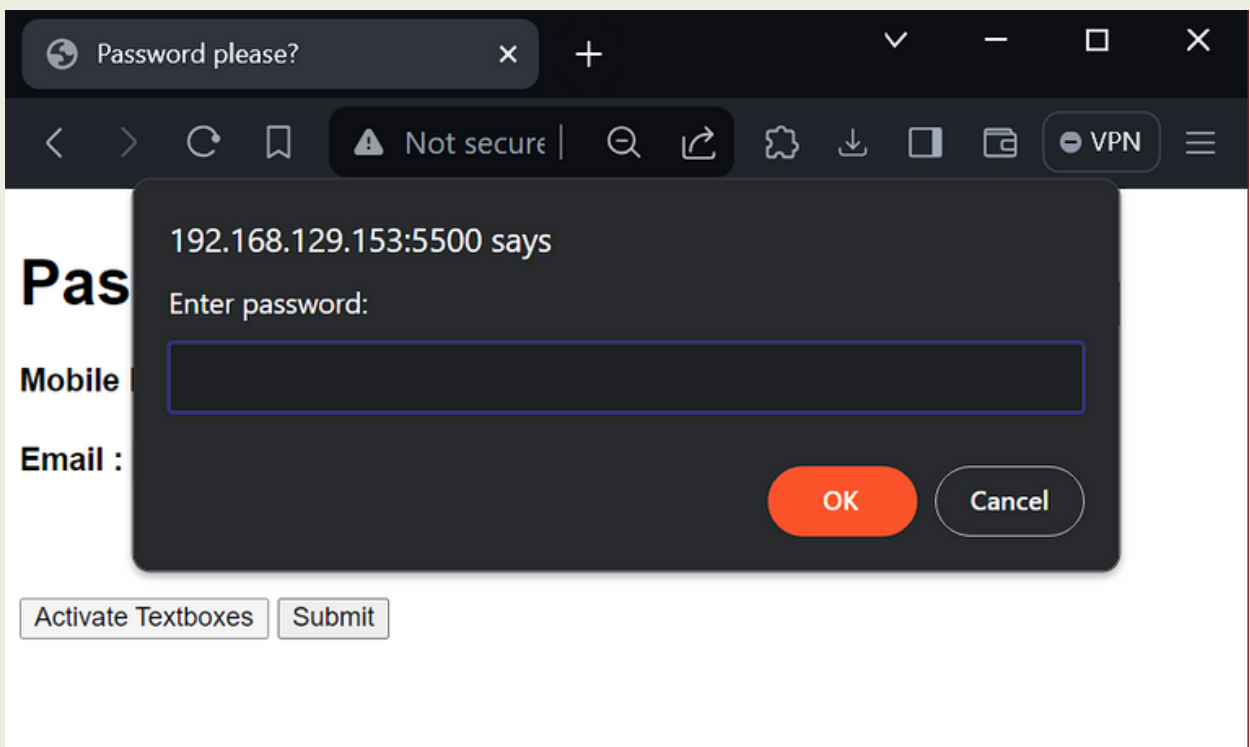
Output



A screenshot of a web browser window. The address bar shows 'Password please?' and a 'Not secure' warning. The page title is 'Password based Form Activation'. The form contains two input fields: 'Mobile Number : Enter your mobile number' and 'Email : Enter your email address'. At the bottom, there are two buttons: 'Activate Textboxes' and 'Submit'.

Mobile Number :

Email :



A screenshot of the same web browser window, but with a password prompt dialog box overlaid. The dialog box is titled '192.168.129.153:5500 says' and contains the text 'Enter password:'. It has a text input field and two buttons: 'OK' and 'Cancel'. The background form is partially visible behind the dialog.

192.168.129.153:5500 says

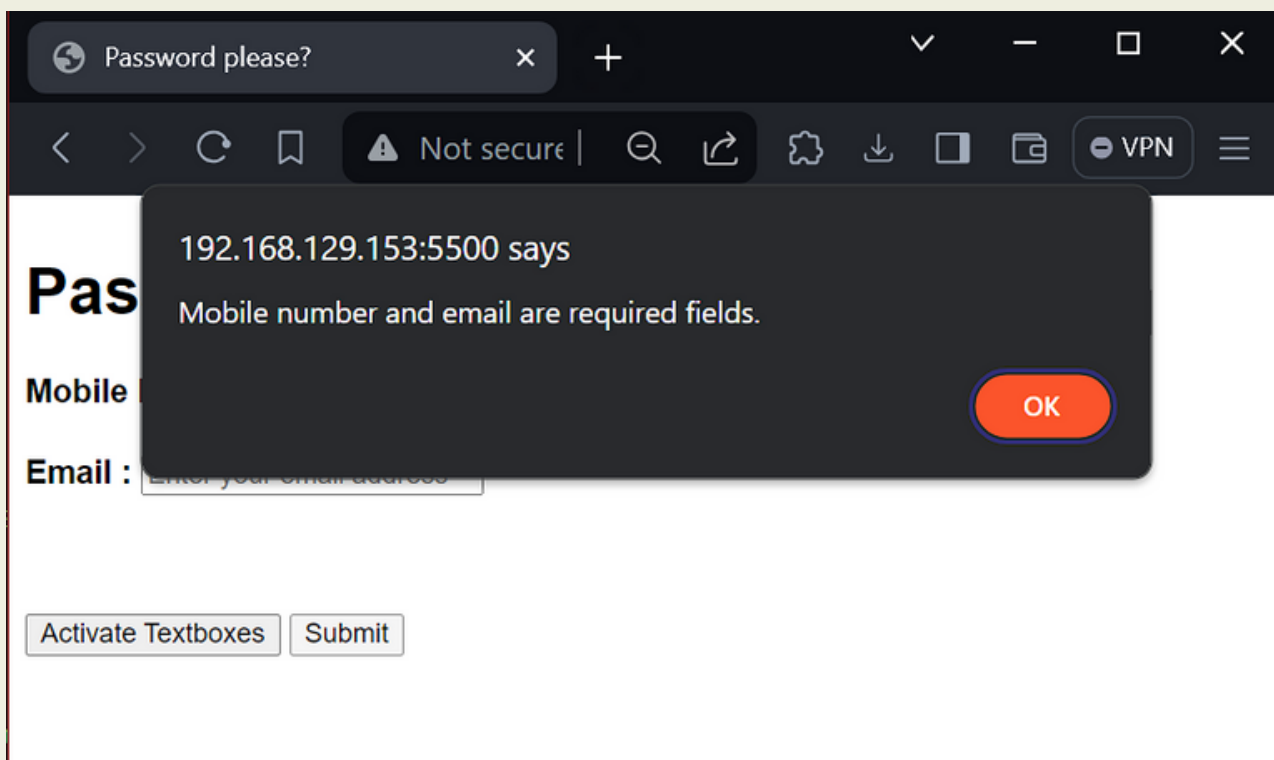
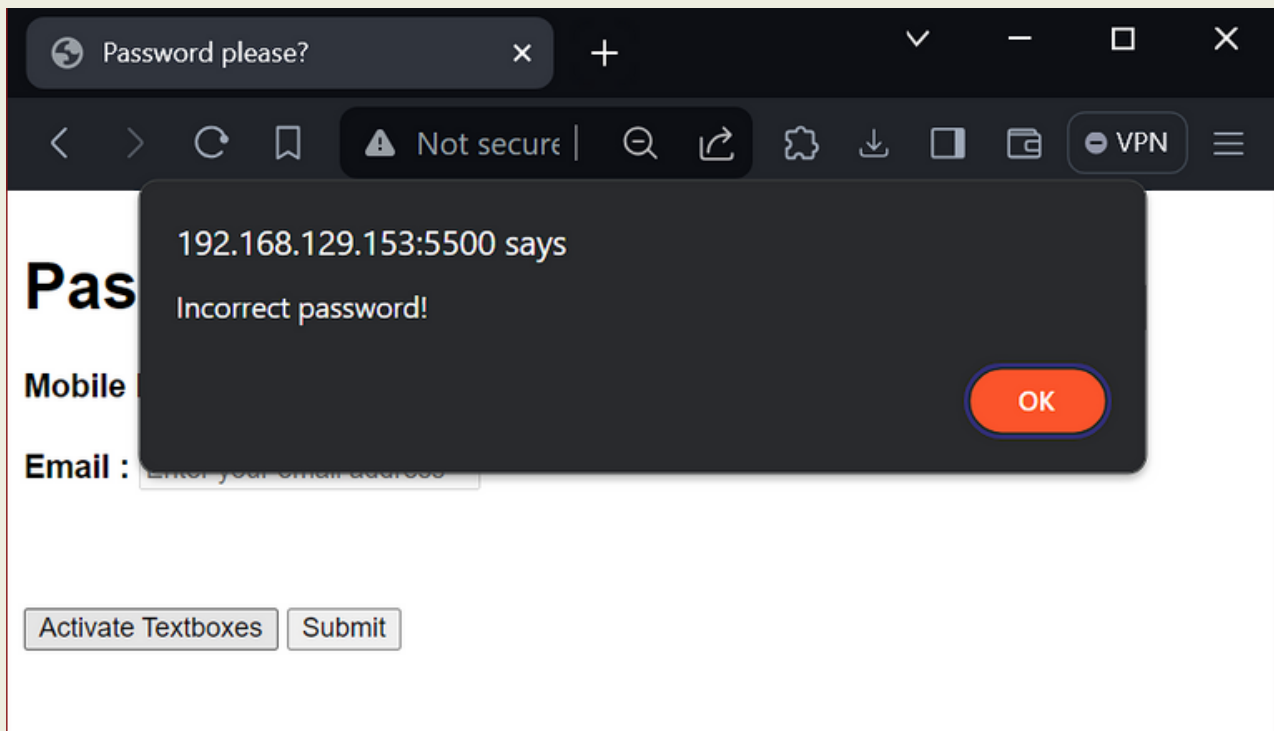
Enter password:

Pas

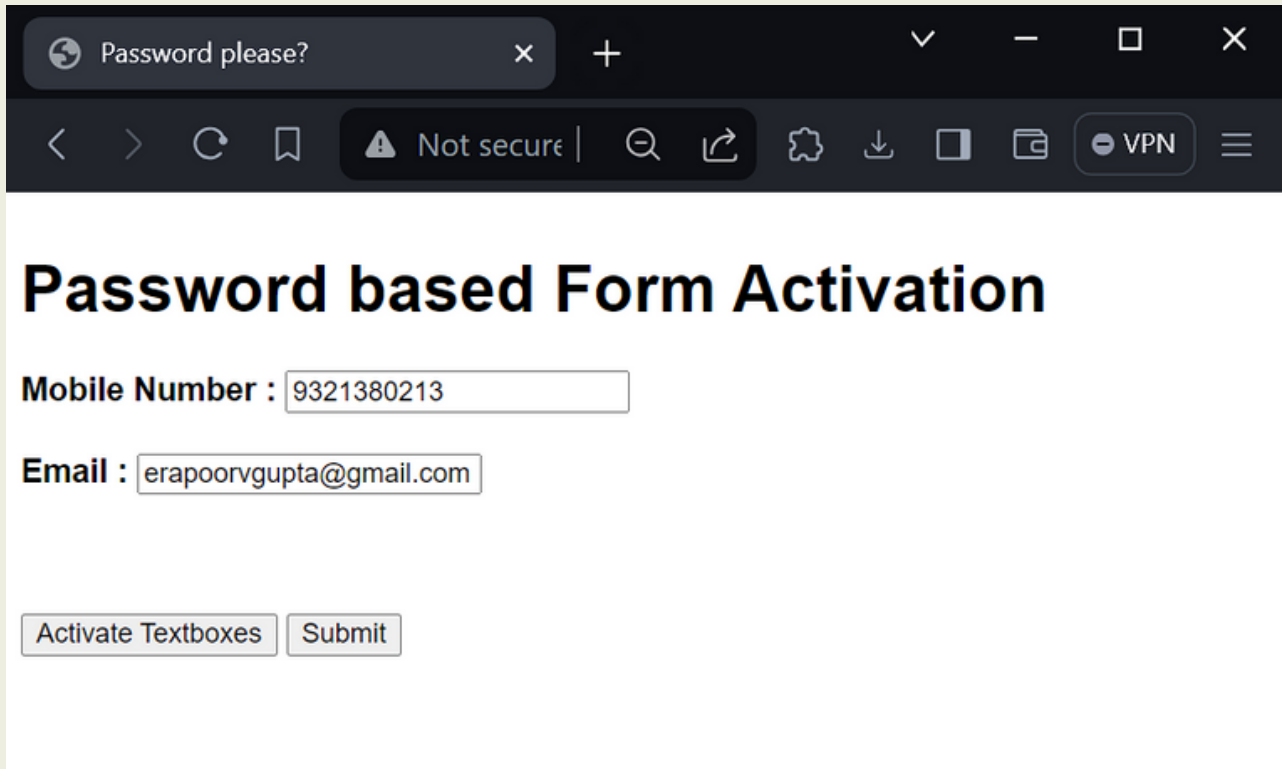
Mobile

Email :

Output



Output



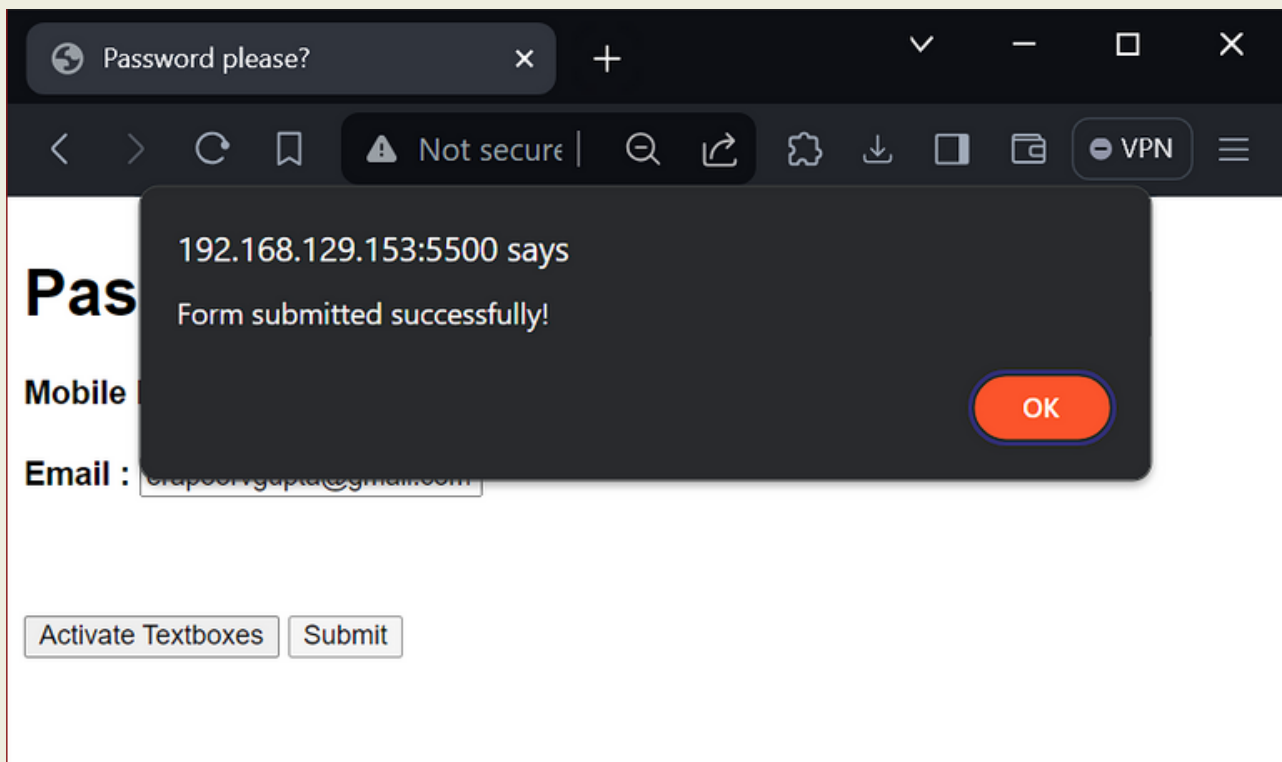
Browser window: Password please? x + v - □ ×

Navigation: < > ↻ 📖 ⚠ Not secure 🔍 ↗ 🛡️ ⬇️ 📄 📁 VPN ☰

Password based Form Activation

Mobile Number :

Email :



Browser window: Password please? x + v - □ ×

Navigation: < > ↻ 📖 ⚠ Not secure 🔍 ↗ 🛡️ ⬇️ 📄 📁 VPN ☰

Pas

Mobile

Email :

192.168.129.153:5500 says

Form submitted successfully!

OK



About Me

Hi, I am Apoorv
I study at symbiosis pune,
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