

Lesson 04 Demo 04

Implementing Form Validation

Objective: To implement JavaScript-based form validation for a login page with specified username and password criteria

Tools required: Visual studio code and Node.js

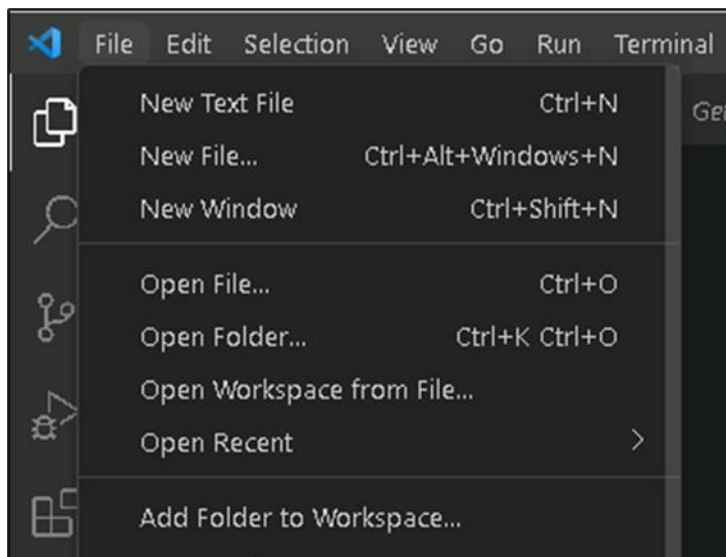
Prerequisites: Basic understanding of functions in JavaScript, ensure folder named **DEMOS** for saving the file

Steps to be followed:

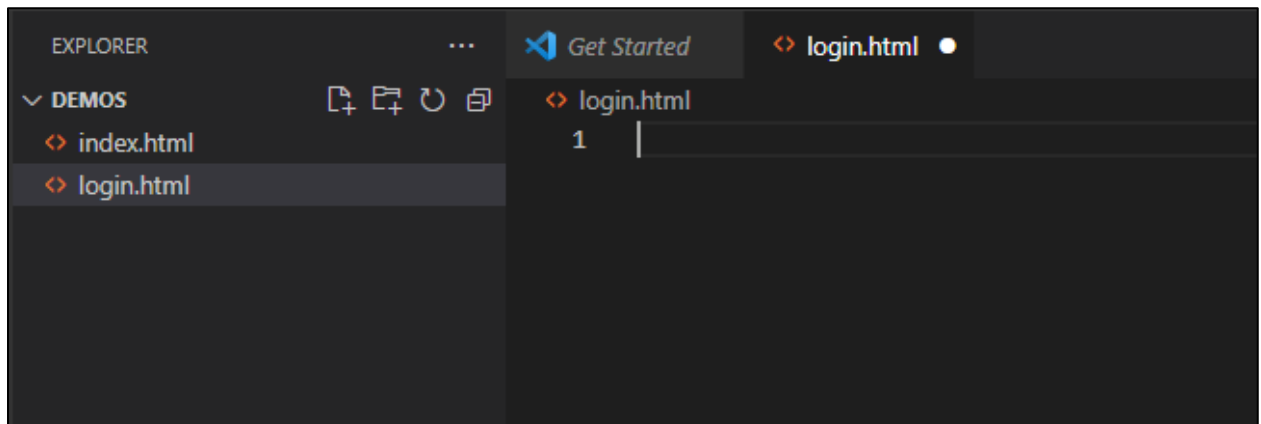
1. Create and execute the file

Step 1: Create and execute the file

- 1.1 Open Visual Studio Code and right click on the **File** menu of the code editor and select **Open Folder**



- 1.2 Select **DEMOS** folder of the project and select the **New File** icon and enter the filename as **login.html**



- 1.3 Add the following code to the **login.html** file:

```
<!DOCTYPE html>
<html>
  <head>
    <title>JavaScript Form Validation</title>
  </head>
  <body>
    <h2>Login Form</h2>
    <form method="post" onsubmit="validation()">
      <input type="text" id="user" placeholder="user name"><br>
      <input type="text" id="pwd" placeholder="password"><br>
      <input type="submit" value="Submit" id="sub">
    </form>
    <script>
      function validation(){
        var un=document.getElementById('user').value;
        var pwd=document.getElementById('pwd').value;
        if (un == "student" && pwd == "simplilearn"){
          window.alert("User details are correct, Login valid");
        }
        else{
          window.alert("Login Failed, Please enter valid username and password");
        }
      }
    </script>
  </body>
</html>
```

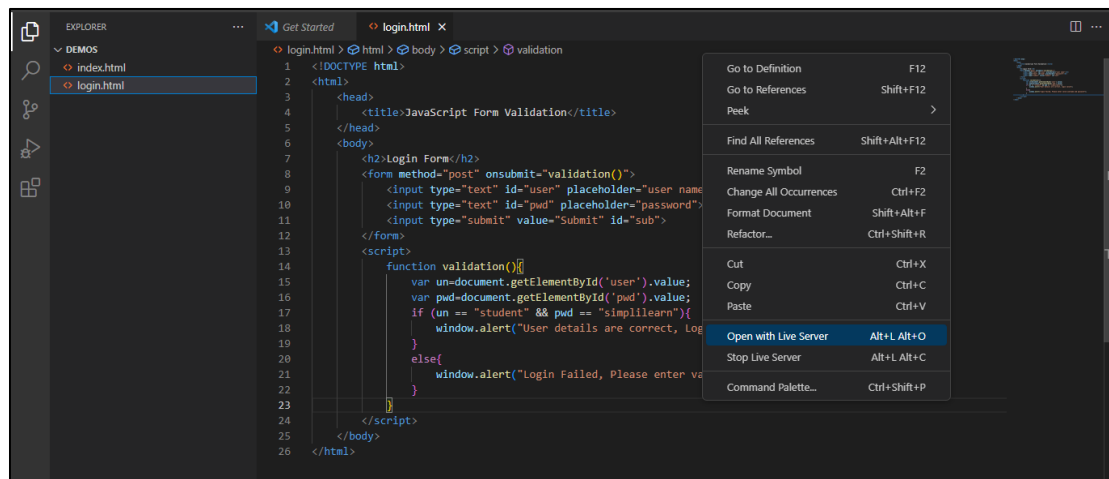
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15       var un=document.getElementById('user').value;
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17       if (un == "student" && pwd == "simplilearn"){
18         window.alert("User details are correct, Login valid");
19       }
20       else{
21         window.alert("Login Failed, Please enter valid username and password");
22       }
23     }
24   </script>
25 </body>
26 </html>

```

Note: Save the file

1.4 Right click on the **login.html** file of the project and select the **Open with Live Server** option

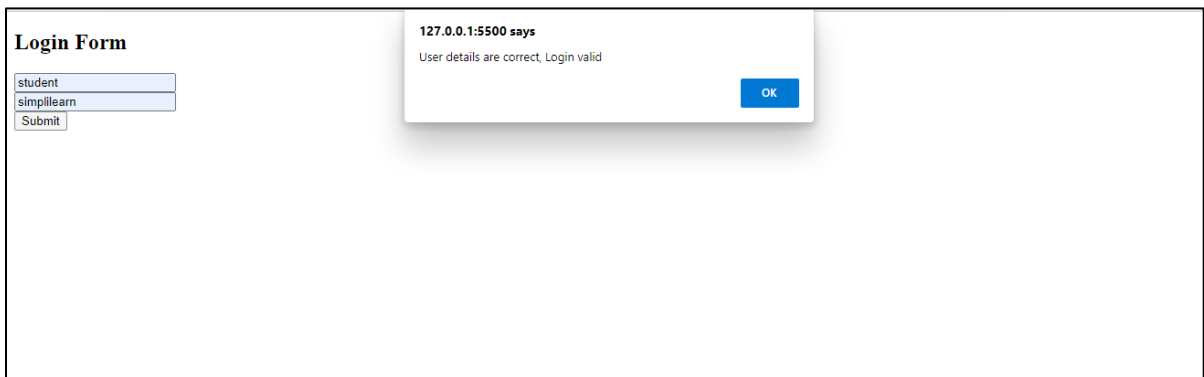


1.5 Once the server starts running, enter **student** under the **username** and enter **simplilearn** under the **password** field, and click on **submit** button:



The screenshot shows a web browser window with a login form. The form is titled "Login Form" and contains two input fields: "username" and "password". The "username" field contains the text "student" and the "password" field contains the text "simplilearn". Below the password field is a "Submit" button. The form is enclosed in a black border.

1.6 The form will validate the data and prompt if the user details are correct:



The screenshot shows the same login form as in the previous image, but with a success alert message displayed. The alert message is a white box with a black border, containing the text "127.0.0.1:5500 says" and "User details are correct, Login valid". There is an "OK" button in the bottom right corner of the alert box. The login form fields and submit button are still visible in the background.

Note: The login page will be executed only once.

The provided code demonstrates a basic HTML document with a JavaScript function for form validation. The login form checks if the entered username is **student** and the password is **simplilearn**, displaying an alert for successful login or a failure message for incorrect credentials.

By following these steps, you have successfully implemented a JavaScript-based form validation for a login page to enhance user authentication with specified username and password criteria.