

## Lesson-End Project

### Developing a Web-Based Client Meeting Scheduler

**Project agenda:** To design and implement a fully functional web-based client meeting scheduler that enables users to create client profiles and schedule meetings efficiently

**Description:** You are responsible for designing and implementing a web application that allows users to create client profiles, input relevant details, and schedule meetings seamlessly using a structured form and an interactive calendar-based interface.

**Tools required:** Visual Studio Code

**Prerequisites:** None

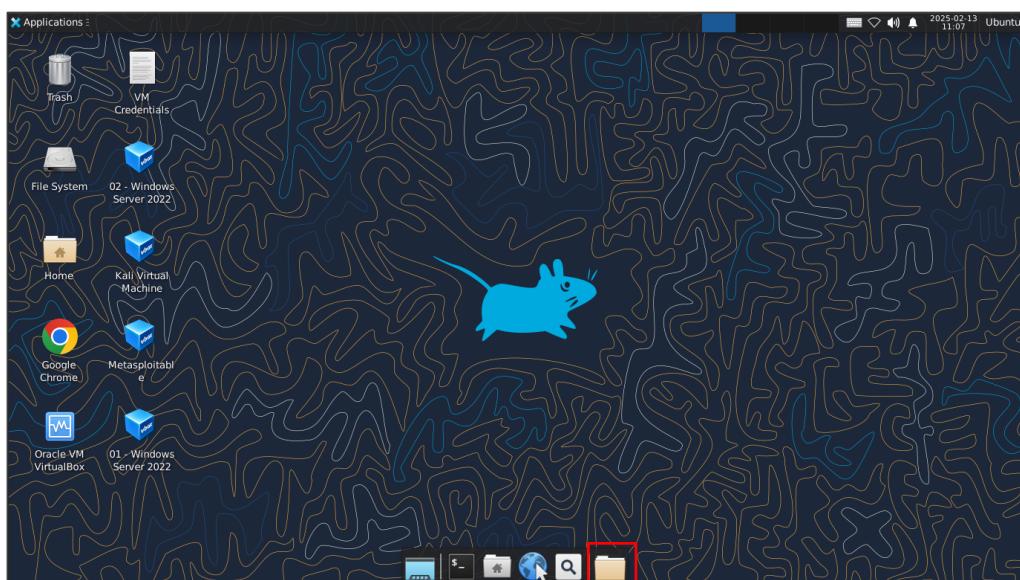
**Expected deliverables:** A fully functional and comprehensive web-based client meeting scheduler with profile creation and booking features. The project will include well-structured HTML and CSS files for maintainability, along with a responsive, well-designed interface featuring a date and time picker. The application will be validated, tested, and built with scalability in mind, allowing for future enhancements such as email notifications and database integration.

Steps to be followed:

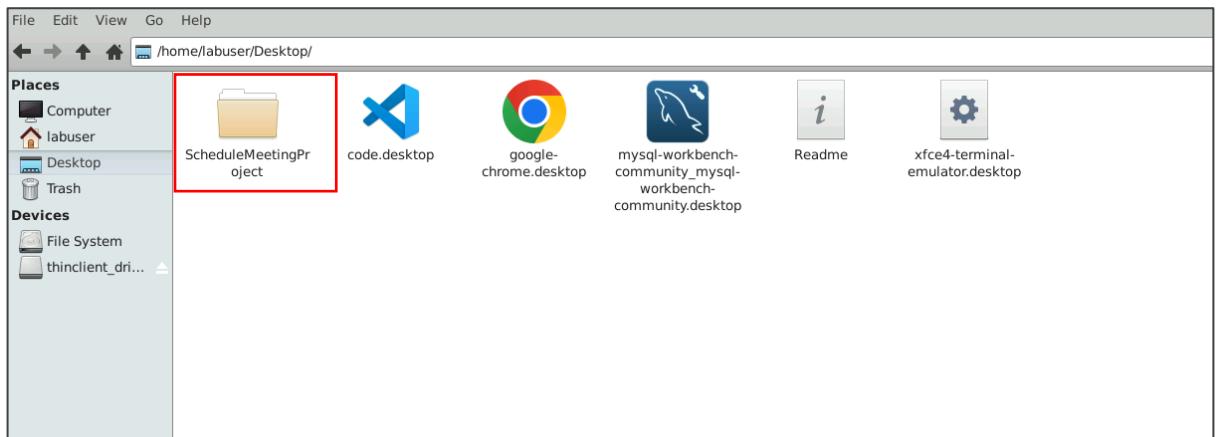
1. Create a development folder
2. Develop and implement the web application

#### Step 1: Create a development folder

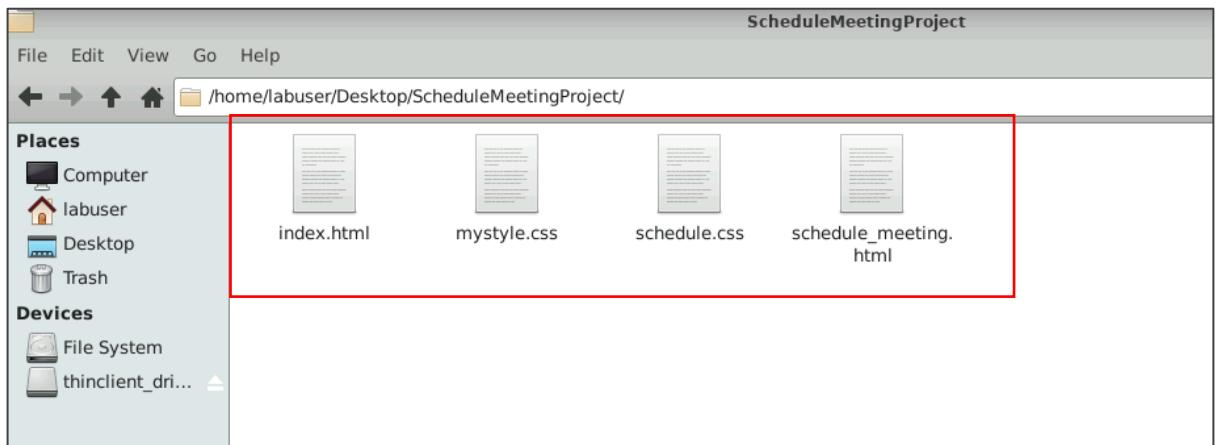
1.1 Access File Explorer in Simplilearn Lab and navigate to the desired directory



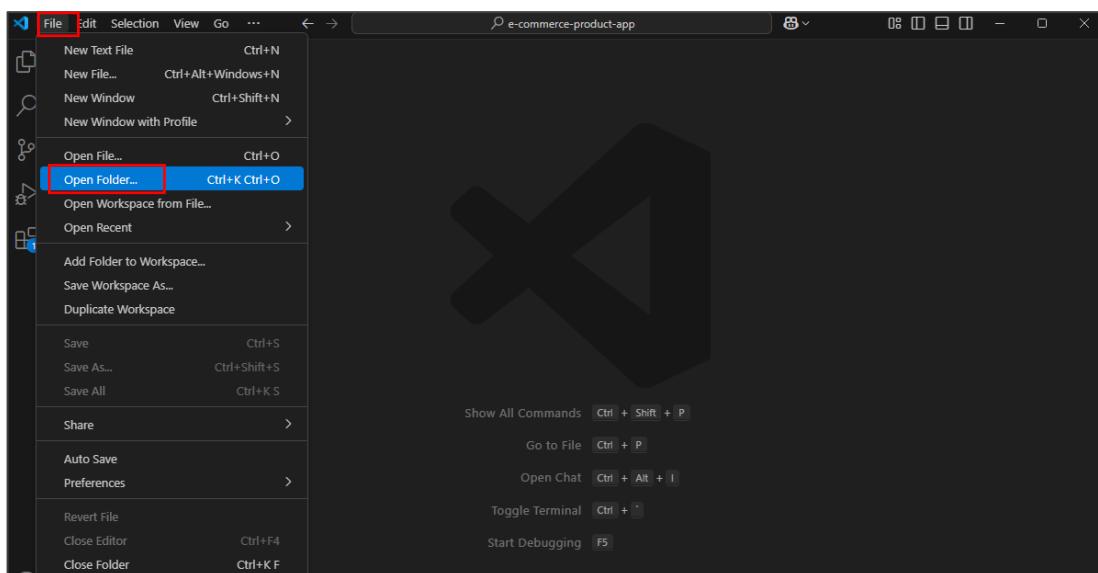
1.2 Create a new folder named **ScheduleMeetingProject**.



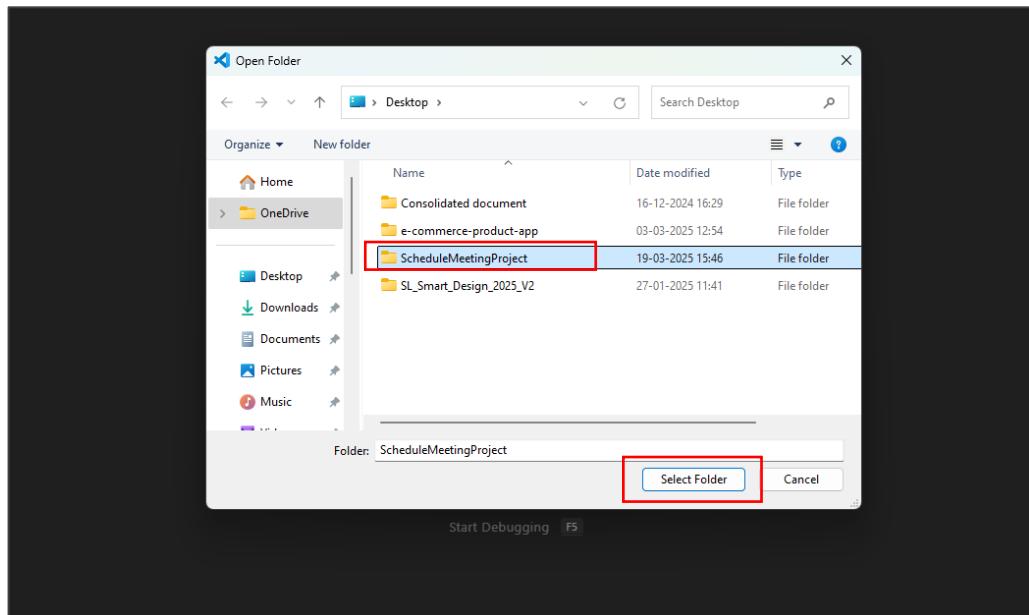
1.3 Inside **ScheduleMeetingProject**, create the following files named **index.html**, **mystyle.css**, **schedule.css**, and **schedule\_meeting.html**



1.4 Open **Visual Studio Code**, select **File > Open Folder...**



### 1.5 Choose the created folder and ensure all files are visible



## Step 2: Develop and implement the web application

### 2.1 Open **index.html** and insert the required HTML code for creating a client profile form:

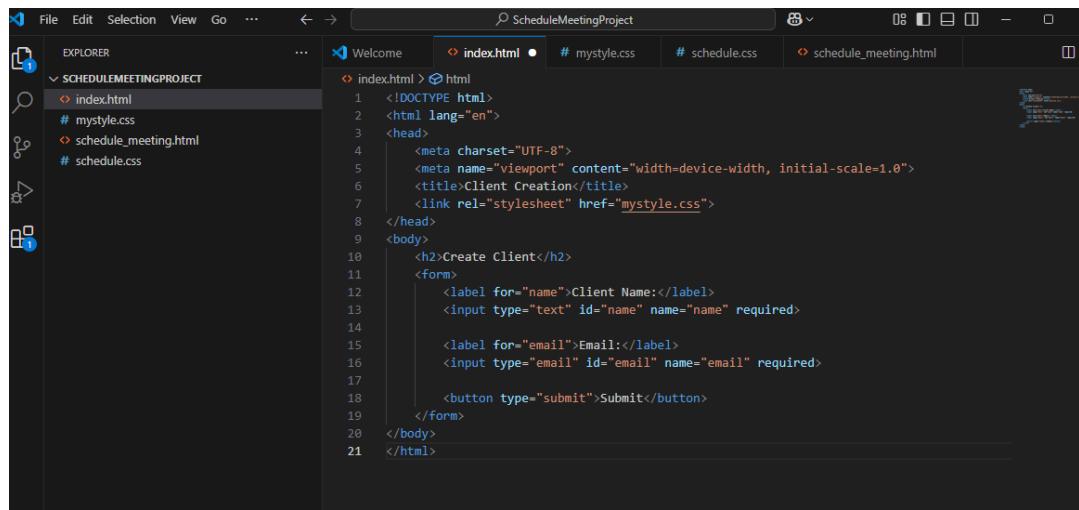
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Client Creation</title>
    <link rel="stylesheet" href="mystyle.css">
  </head>
  <body>
    <h2>Create Client</h2>
    <form id="clientForm">
      <label for="name">Client Name:</label>
      <input type="text" id="name" name="name" required>

      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>

      <button type="submit">Submit</button>
    </form>

    <script src="script.js"></script>
  </body>
```

</html>



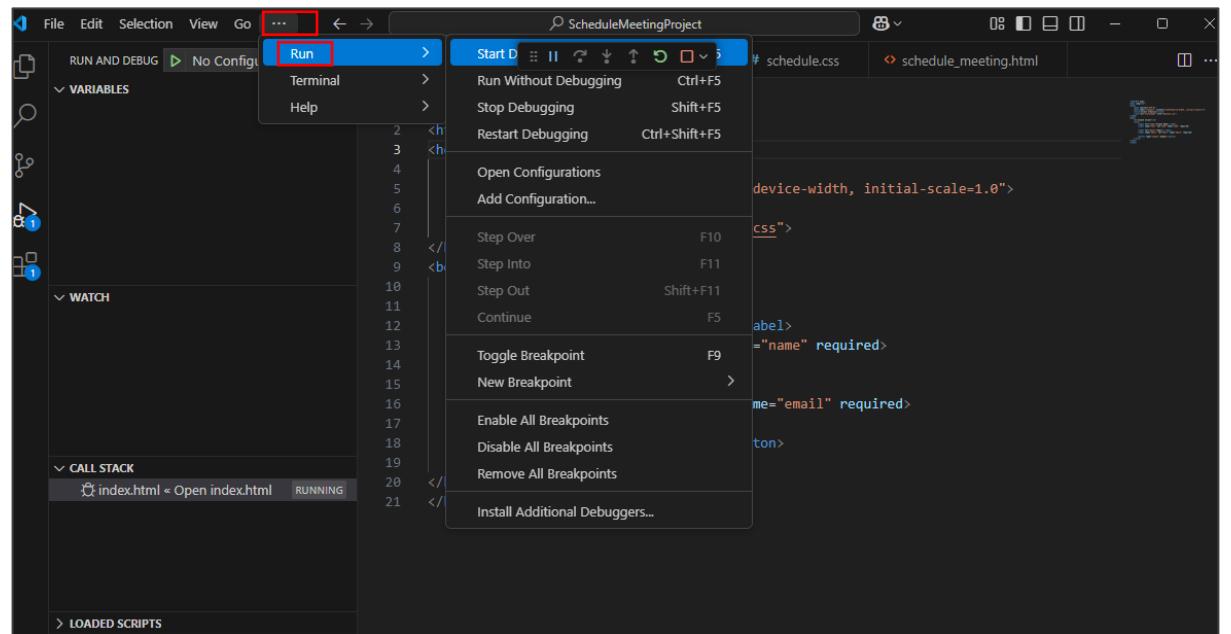
The screenshot shows the Visual Studio Code interface with the project 'SCHEDULEMEETINGPROJECT' open. The Explorer sidebar on the left lists files: index.html, mystyle.css, schedule\_meeting.html, and schedule.css. The main editor area displays the 'index.html' file content:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Client Creation</title>
    <link rel="stylesheet" href="mystyle.css">
</head>
<body>
    <h2>Create Client</h2>
    <form>
        <label for="name">Client Name:</label>
        <input type="text" id="name" name="name" required>

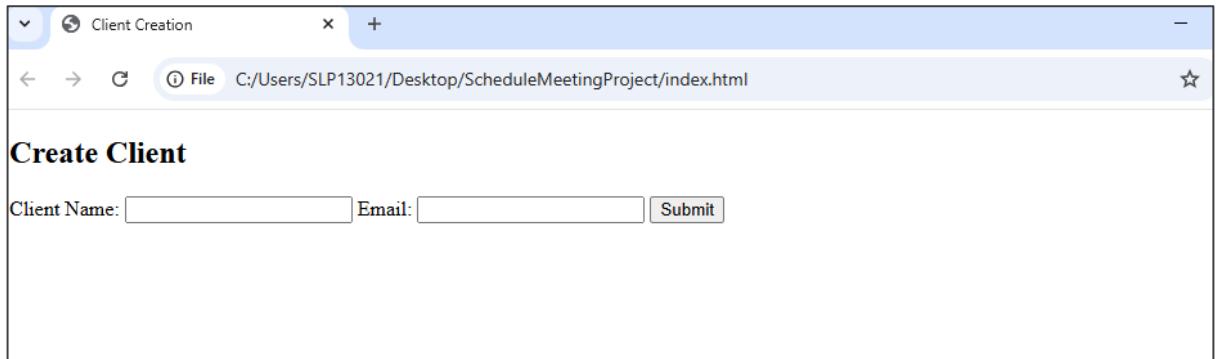
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>

        <button type="submit">Submit</button>
    </form>
</body>
</html>
```

## 2.2 Run and debug the application to verify the output



The output page is as shown below:



- 2.3 Open **schedule\_meeting.html** and insert the necessary HTML code for scheduling meetings:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Schedule Meeting</title>
    <link rel="stylesheet" href="schedule.css">
  </head>
  <body>
    <h2>Schedule a Meeting</h2>
    <form id="meetingForm">
      <label for="topic">Meeting Topic:</label>
      <input type="text" id="topic" name="topic" required>

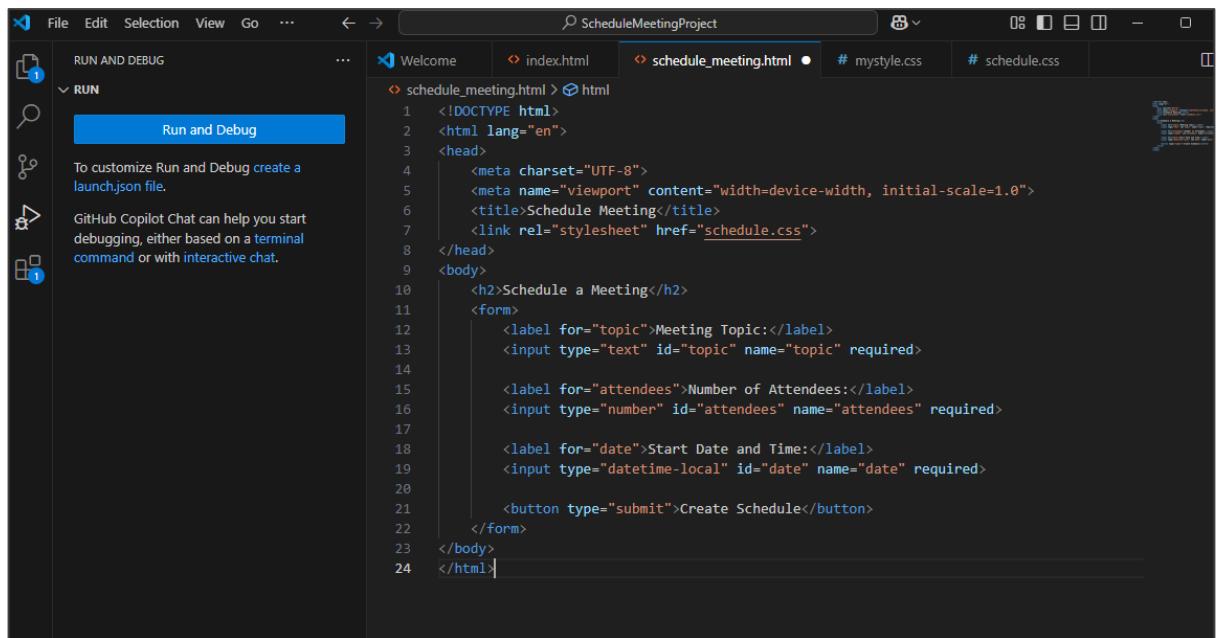
      <label for="attendees">Number of Attendees:</label>
      <input type="number" id="attendees" name="attendees" required>

      <label for="date">Start Date and Time:</label>
      <input type="datetime-local" id="date" name="date" required>

      <button type="submit">Create Schedule</button>
    </form>

    <h3>Scheduled Meetings</h3>
    <ul id="meetingList"></ul>

    <script src="script.js"></script>
  </body>
</html>
```



The screenshot shows the Visual Studio Code interface. On the left, the 'RUN AND DEBUG' sidebar is open, with 'RUN' selected. A blue bar at the top of the sidebar contains the text 'Run and Debug'. Below this, there is a note about customizing the run and debug settings via a launch.json file, and a mention of GitHub Copilot Chat for debugging. The main code editor area displays the content of 'schedule\_meeting.html'. The code is an HTML form for scheduling a meeting, requiring fields for topic, attendees, and date.

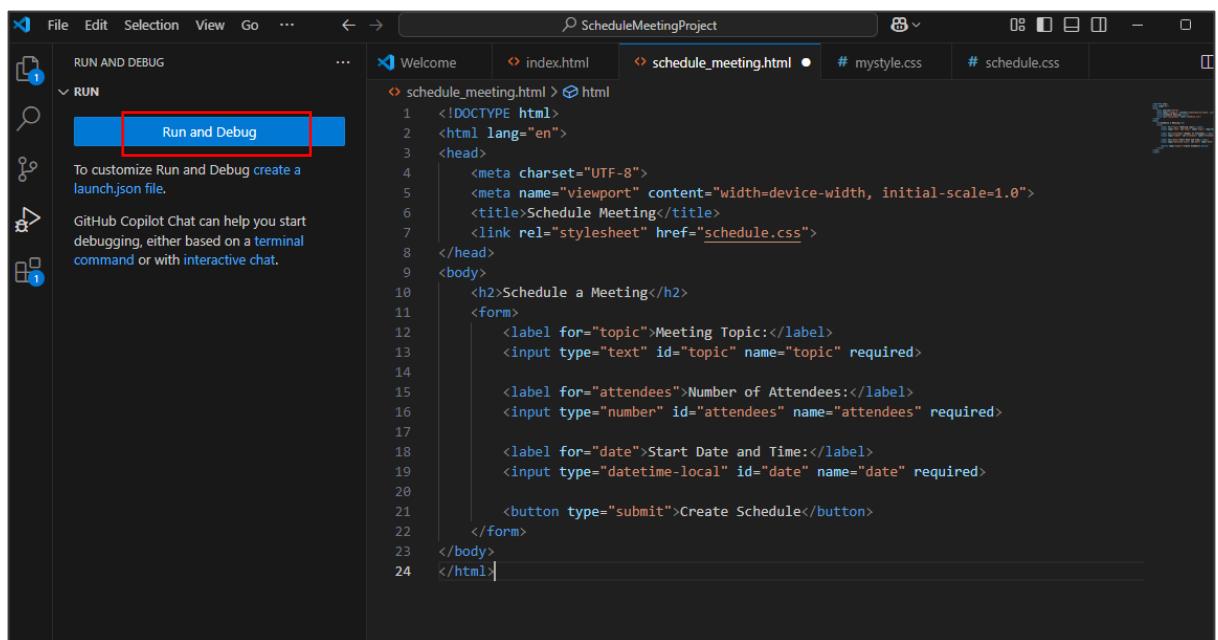
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Schedule Meeting</title>
    <link rel="stylesheet" href="schedule.css">
</head>
<body>
    <h2>Schedule a Meeting</h2>
    <form>
        <label for="topic">Meeting Topic:</label>
        <input type="text" id="topic" name="topic" required>

        <label for="attendees">Number of Attendees:</label>
        <input type="number" id="attendees" name="attendees" required>

        <label for="date">Start Date and Time:</label>
        <input type="datetime-local" id="date" name="date" required>

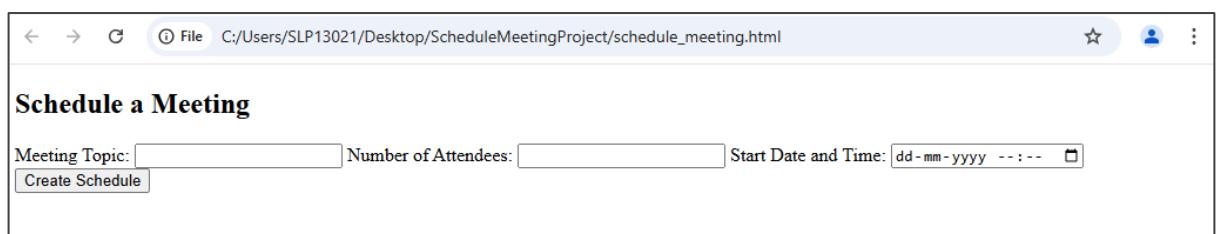
        <button type="submit">Create Schedule</button>
    </form>
</body>
</html>
```

## 2.4 Run and debug the application to ensure the scheduling page functions correctly



This screenshot is identical to the one above, but the 'Run and Debug' button in the 'RUN AND DEBUG' sidebar is now highlighted with a red box. This indicates that the user has interacted with the interface to start the run or debug process.

The output page is as shown below:

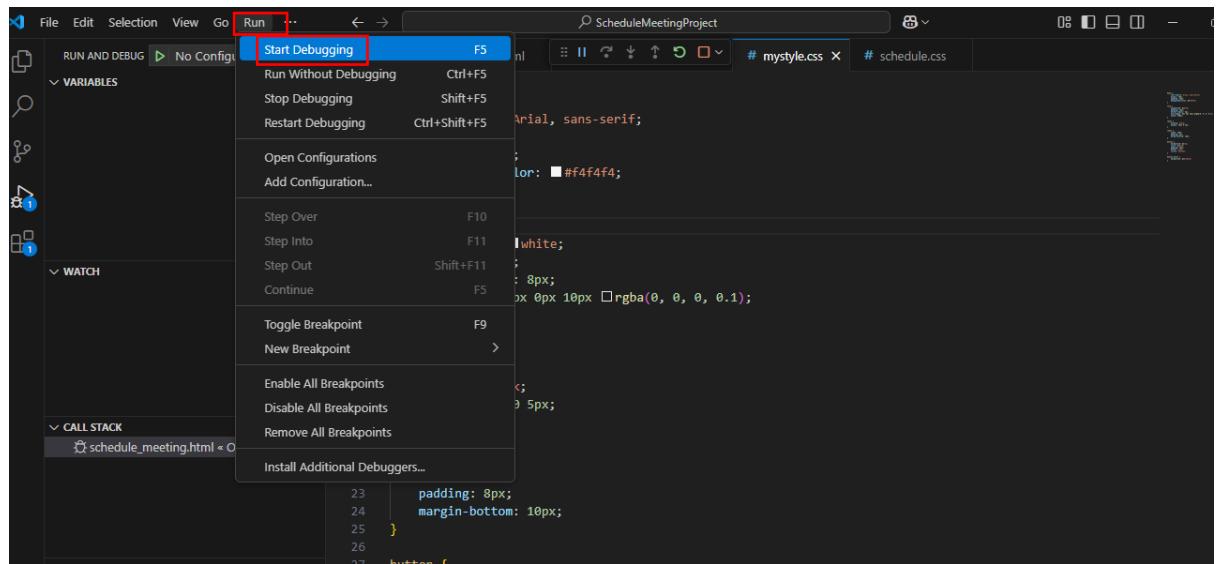


- 2.5 Open **mystyle.css** and insert CSS rules to style the main application layout and forms:

```
body {  
    font-family: Arial, sans-serif;  
    margin: 20px;  
    padding: 20px;  
    background-color: #f4f4f4;  
}  
  
form {  
    background: white;  
    padding: 20px;  
    border-radius: 8px;  
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);  
    width: 300px;  
}  
  
label {  
    display: block;  
    margin: 10px 0 5px;  
}  
  
input {  
    width: 100%;  
    padding: 8px;  
    margin-bottom: 10px;  
}  
  
button {  
    background: blue;  
    color: white;  
    padding: 10px;  
    border: none;  
    cursor: pointer;  
}  
  
button:hover {  
    background: darkblue;  
}
```

```
# mystyle.css > button:hover
1 body {
2     font-family: Arial, sans-serif;
3     margin: 20px;
4     padding: 20px;
5     background-color: #f4f4f4;
6 }
7
8 form {
9     background: white;
10    padding: 20px;
11    border-radius: 8px;
12    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
13    width: 300px;
14 }
15
16 label {
17     display: block;
18     margin: 10px 0 5px;
19 }
20
21 input {
22     width: 100%;
23     padding: 8px;
24     margin-bottom: 10px;
25 }
26
27 button {
28     background: blue;
29     color: white;
30     padding: 10px;
31     border: none;
}
```

## 2.6 Save and debug the file to confirm that the styles are applied correctly



2.7 Open **schedule.css** file and define styles for the meeting scheduler page:

```
body {  
    font-family: Arial, sans-serif;  
    margin: 20px;  
    padding: 20px;  
    background-color: #e8f0fe;  
}  
  
form {  
    background: white;  
    padding: 20px;  
    border-radius: 8px;  
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);  
    width: 300px;  
}  
  
label {  
    display: block;  
    margin: 10px 0 5px;  
}  
  
input {  
    width: 100%;  
    padding: 8px;  
    margin-bottom: 10px;  
}  
  
button {  
    background: green;  
    color: white;  
    padding: 10px;  
    border: none;  
    cursor: pointer;  
}  
  
button:hover {  
    background: darkgreen;  
}  
  
ul {  
    list-style-type: none;  
    padding: 0;  
}  
  
ul li {  
    background: white;
```

```

padding: 10px;
margin-top: 5px;
border-radius: 5px;
box-shadow: 0px 0px 5px rgba(0, 0, 0, 0.1);
}

```

```

# schedule.css > button:hover
body {
    font-family: Arial, sans-serif;
    margin: 20px;
    padding: 20px;
    background-color: #e8f0fe;
}
form {
    background: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
    width: 300px;
}
label {
    display: block;
    margin: 10px 0 5px;
}
input {
    width: 100%;
    padding: 8px;
    margin-bottom: 10px;
}

```

## 2.8 Save and debug the file to apply styling successfully

Run

- Start Debugging F5
- Run Without Debugging Ctrl+F5
- Stop Debugging Shift+F5
- Restart Debugging Ctrl+Shift+F5
- Open Configurations
- Add Configuration...
- Step Over F10
- Step Into F11
- Step Out Shift+F11
- Continue F5
- Toggle Breakpoint F9
- New Breakpoint >
- Enable All Breakpoints <
- Disable All Breakpoints >
- Remove All Breakpoints <
- Install Additional Debuggers...

2.9 Verify the output of the page by opening it in a web browser

The screenshot shows a web browser window titled "Schedule Meeting". The address bar indicates the file path: "C:/Users/SLP13021/Desktop/ScheduleMeetingProject/schedule\_meeting.html". The main content area displays a "Schedule a Meeting" form. The form consists of four input fields: "Meeting Topic" (empty), "Number of Attendees" (empty), "Start Date and Time" (empty), and a "Create Schedule" button.

2.10 Enter sample data to test the client profile form

The screenshot shows a web browser window displaying the same "Schedule a Meeting" form as the previous screenshot, but with sample data entered. The "Meeting Topic" field contains the value "Event". The "Number of Attendees" field contains the value "4". The "Start Date and Time" field is empty. The "Create Schedule" button is visible at the bottom of the form.

2.11 Check the meeting scheduling functionality by selecting a date and time using the calendar icon

### Schedule a Meeting

Meeting Topic:

Number of Attendees:

Start Date and Time:  
 CALENDAR

**Create Schedule**

March, 2025 ▾ ↑ ↓

Mo	Tu	We	Th	Fr	Sa	Su	16	22
24	25	26	27	28	1	2	17	23
3	4	5	6	7	8	9	18	24
10	11	12	13	14	15	16	19	25
17	18	19	20	21	22	23	20	26
24	25	26	27	28	29	30	21	27
31	1	2	3	4	5	6	22	28

[Clear](#) [Today](#) CALENDAR

**Create Schedule**

By following these steps, you have successfully built a functional client meeting scheduler with profile management and scheduling features. This project enhances your skills in web development, styling, and debugging, preparing you for more advanced applications.