Placement Empowerment Program

Cloud Computing and DevOps Centre

TASK:- To Host a Static Website Locally

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Introduction and Overview

The process involves setting up a local web server, configuring it correctly, and hosting a simple HTML page. By following these steps, you'll get hands-on experience with configuring and running a local Apache server, which is a foundational skill for web hosting and server management.

Objective

The goal of this project is to:

1. Set up a local web server using Apache.

2. Configure the server to host static files.

3. Create and host a simple HTML page displaying your name.

Importance of Local Hosting

Local hosting is an essential skill for developers, as it allows them to test and experiment with web applications in a controlled environment. It offers several advantages, such as:

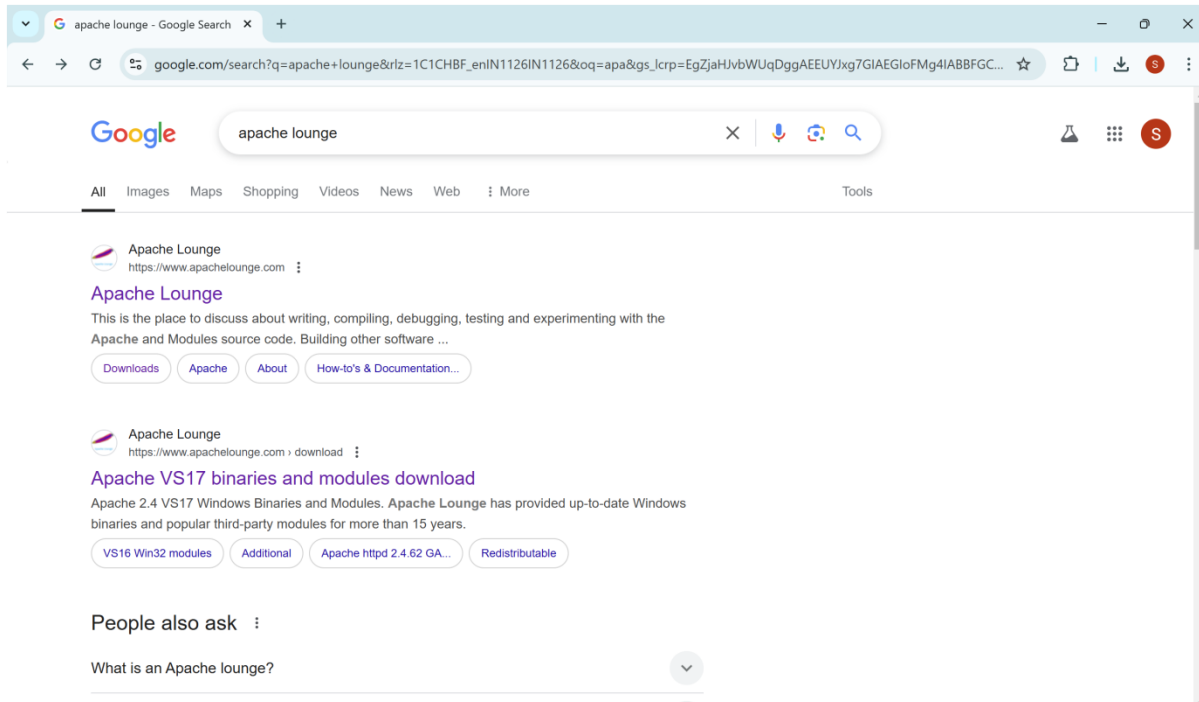**Hands-On Learning:** Gain practical experience with server setup and configuration.

Testing Ground: Safely test and debug websites before deploying them to a live server.

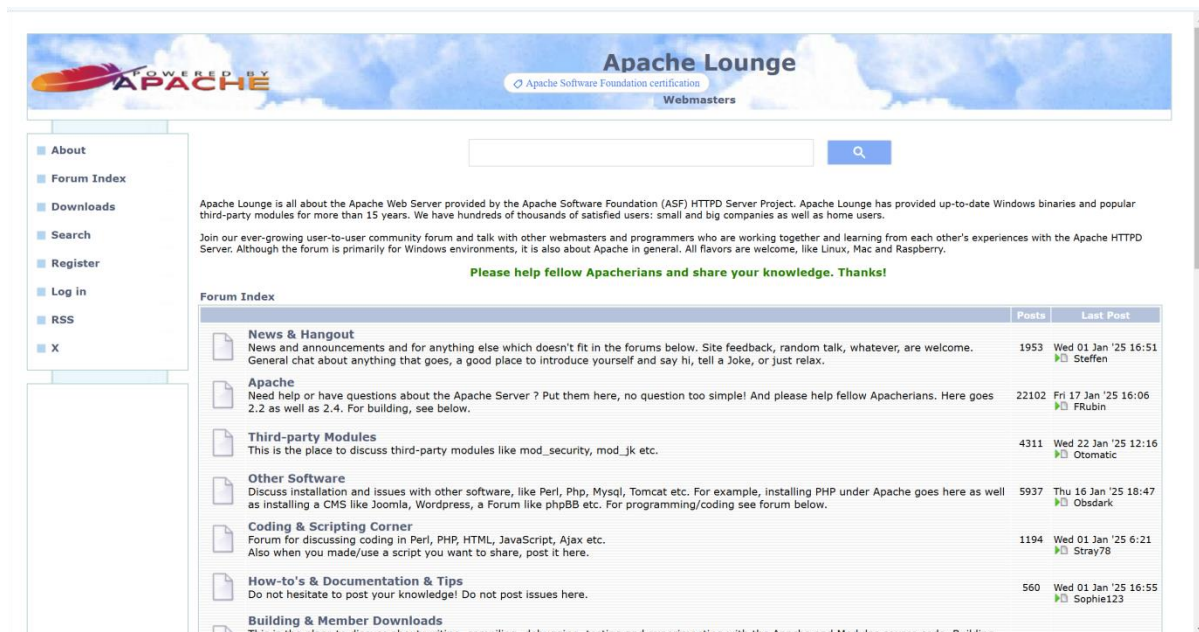**Offline Development:** Work on web projects without requiring an active internet connection.

Step-by-Step Overview

Step1:

Search for "Apache Lounge" on Google and click the first link to access the official website.

Step 2 :

Step 3 :

Step 4 :

Open Command Prompt as Administrator (Windows + R, type cmd, right-click and select 'Run as Administrator') and use the command cd C:\path\to\apache\bin to set the path to the Apache bin folder.

```
C:\Windows\System32>cd C:\Users\CHELSIAH\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin
```
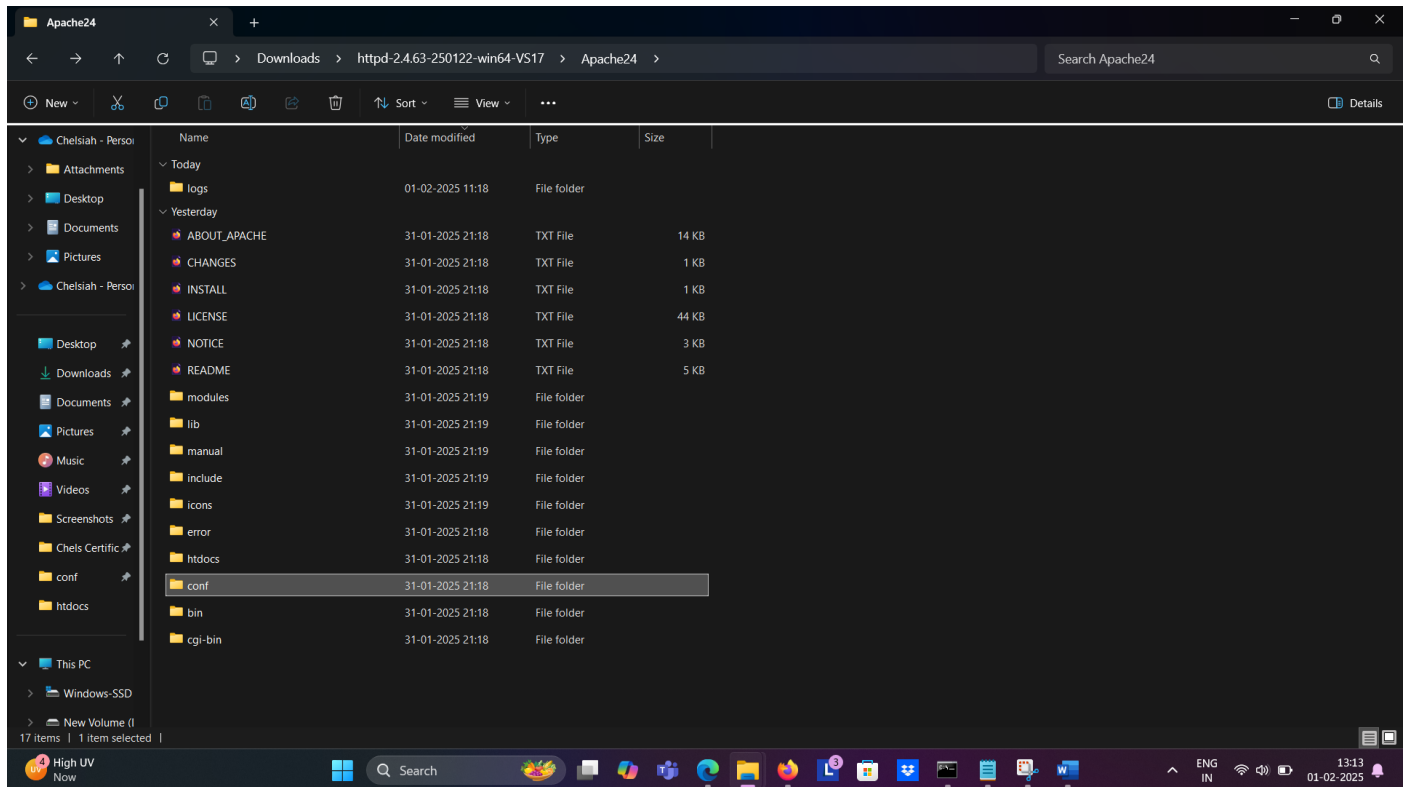
Step 5 :

Then Run the installation command :

httpd.exe -k install

```
C:\Users\CHELSIAH\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
```
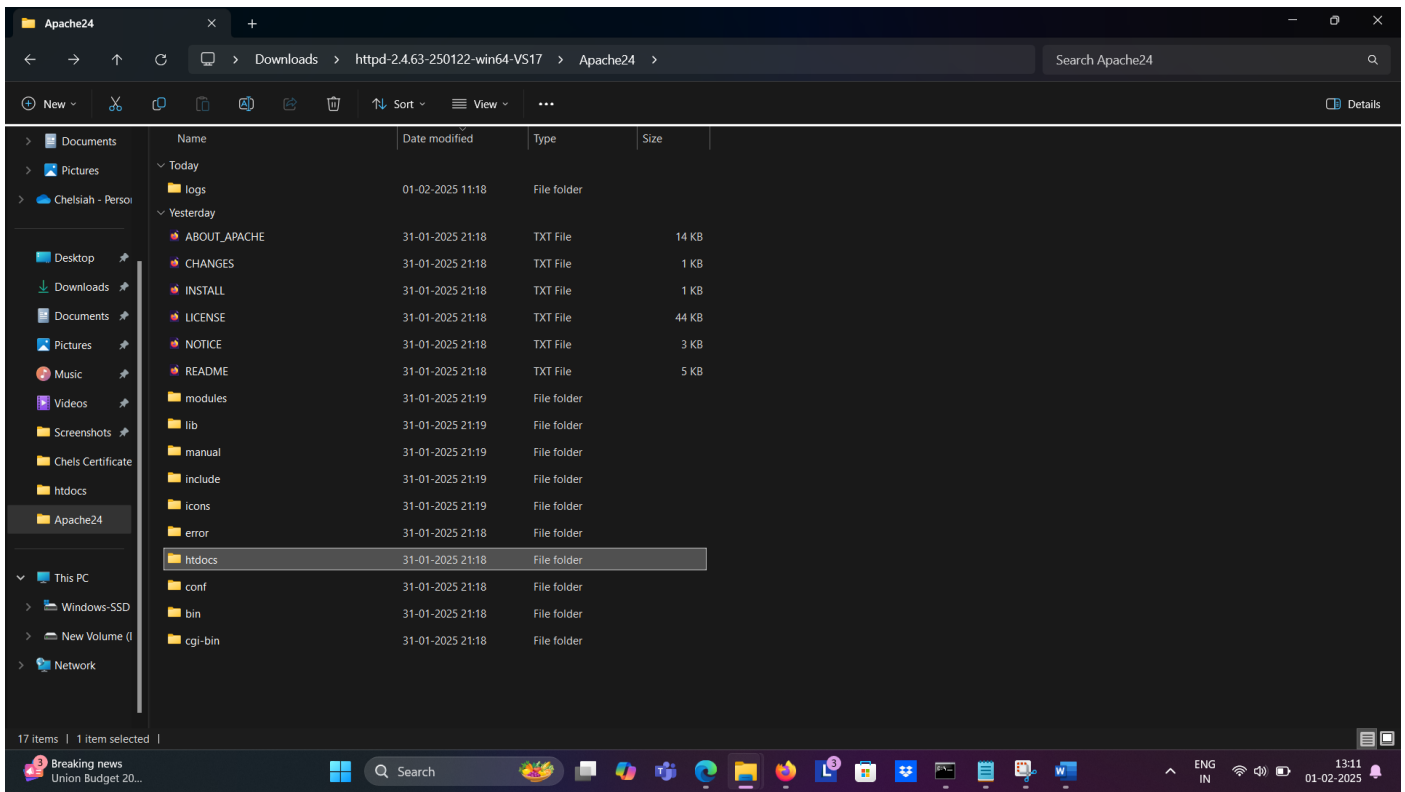
Step 6 :

Navigate to the Apache folder you downloaded, go to the **conf** folder, and right-click on the httpd.conf file; select 'Edit with Notepad'

(Apache/conf/httpd.conf)

Step 7 :

Inside the **httpd.conf** file, replace the content with the provided configuration. Ensure you update the SRVROOT directive with your Apache installation path.

Step 8 :

Open Command Prompt and type the command **httpd.exe -t** to test the configuration file. If the configuration is correct, you should see **'Syntax OK'**.
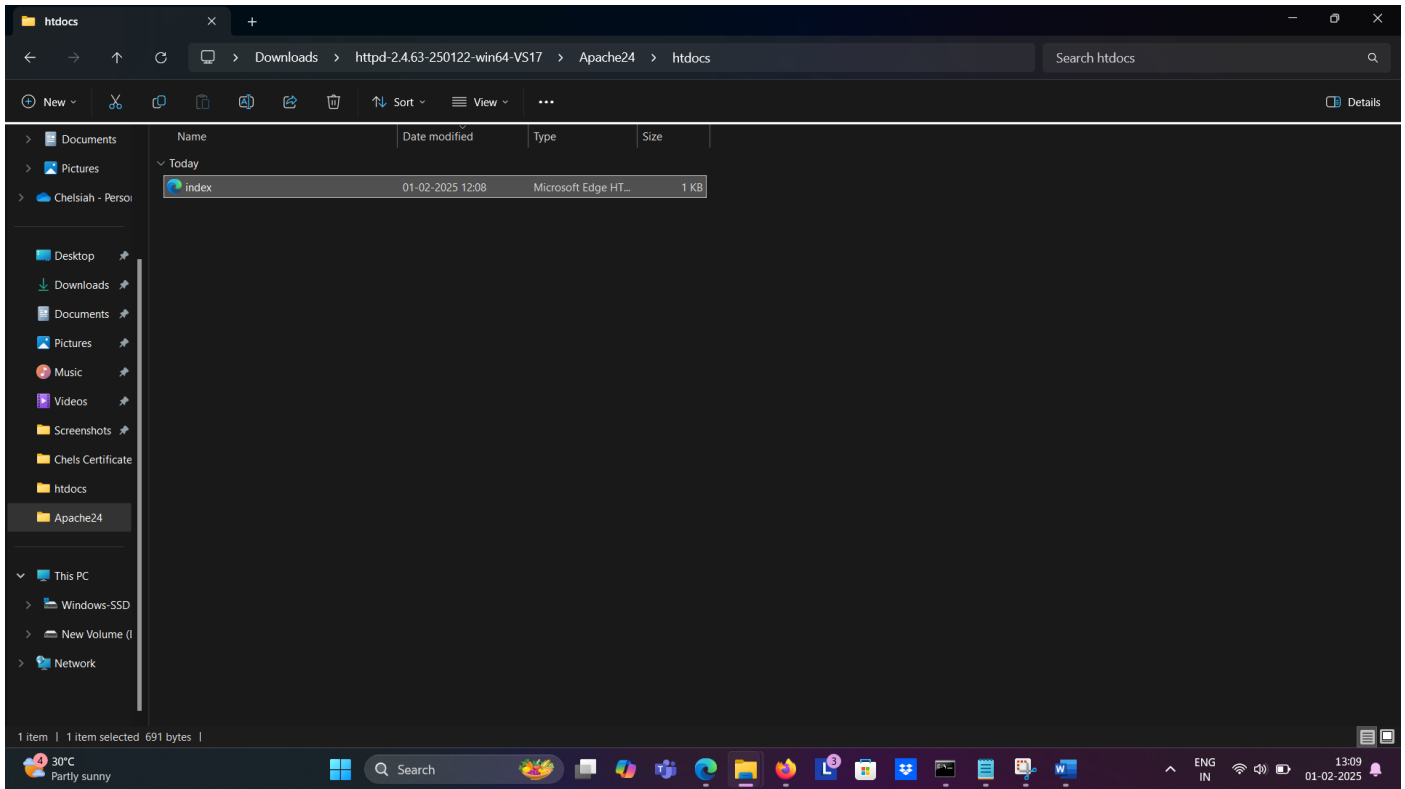


```
C:\Users\CHELSIAH\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -t
Syntax OK
```

Step 9 :

Run the command **httpd.exe -k** start to start the Apache server.

```
C:\Users\CHELSIAH\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -t
Syntax OK
```

Step10:

Step 11 :

Create a simple model to display your name in HTML (you may optionally add CSS for styling).

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Local Website</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
      background-color: black;
      color: lime;
      margin: 0;
      height: 100vh;
      display: flex;
      justify-content: center;
      align-items: center;
    }
    h1 {
      font-size: 3em;
    }
    p {
      font-size: 1.5em;
    }
  </style>
</head>
<body>
  <div>
    <h1>Hello, am chelsia here from CSE!</h1>
    <p>I have completed my first task</p>
  </div>
</body>
</html>
```
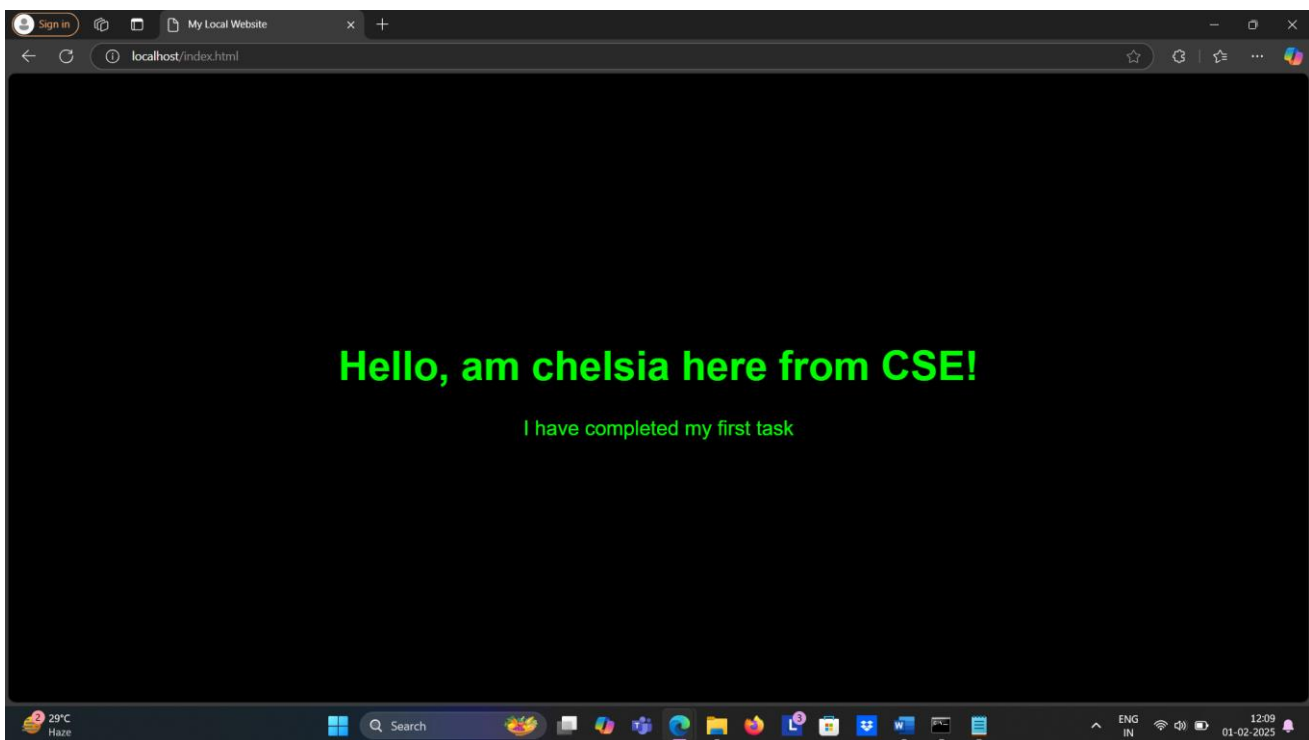
Step 12 :

Open the Chrome browser and type **localhost/index.html** in the address bar. You should be able to see the website hosted successfully.

Expected Outcome

By completing this POC, you will:

1. Successfully configure and run an Apache server locally.

2. Host a static HTML website that displays your name.

3. Understand the basics of web server configuration and file hosting.