

## **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.

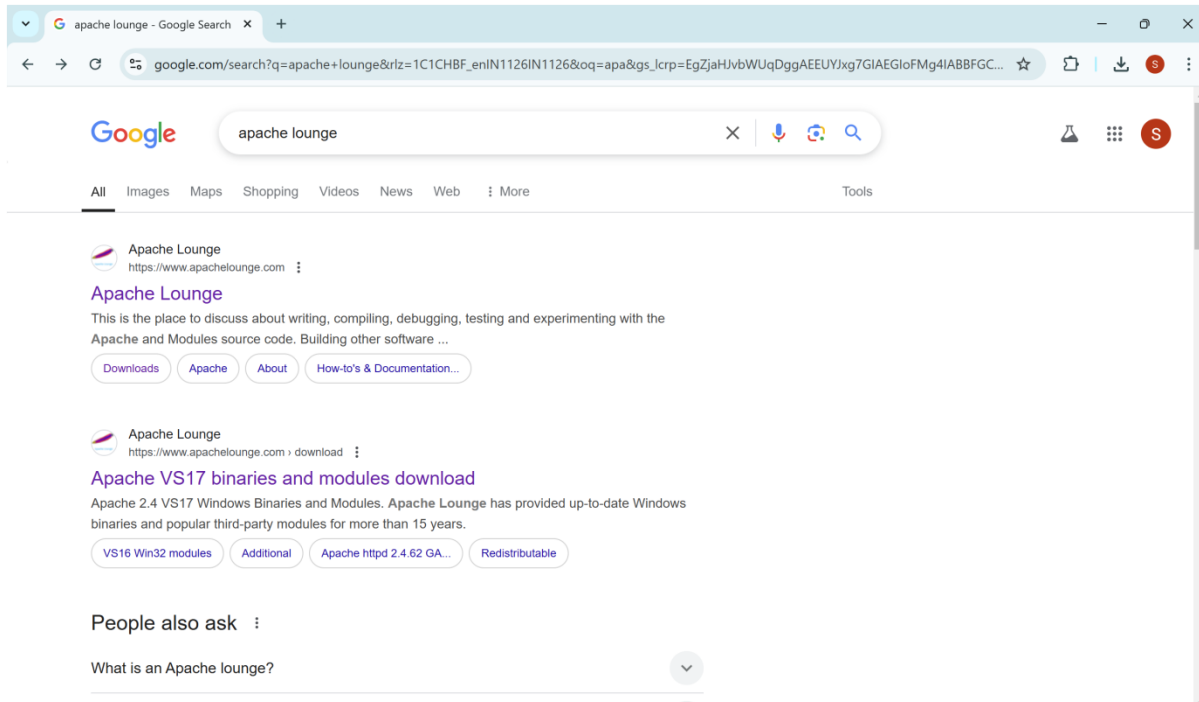
**Testing Ground:** Safely test and debug websites before deploying them to a live server.

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

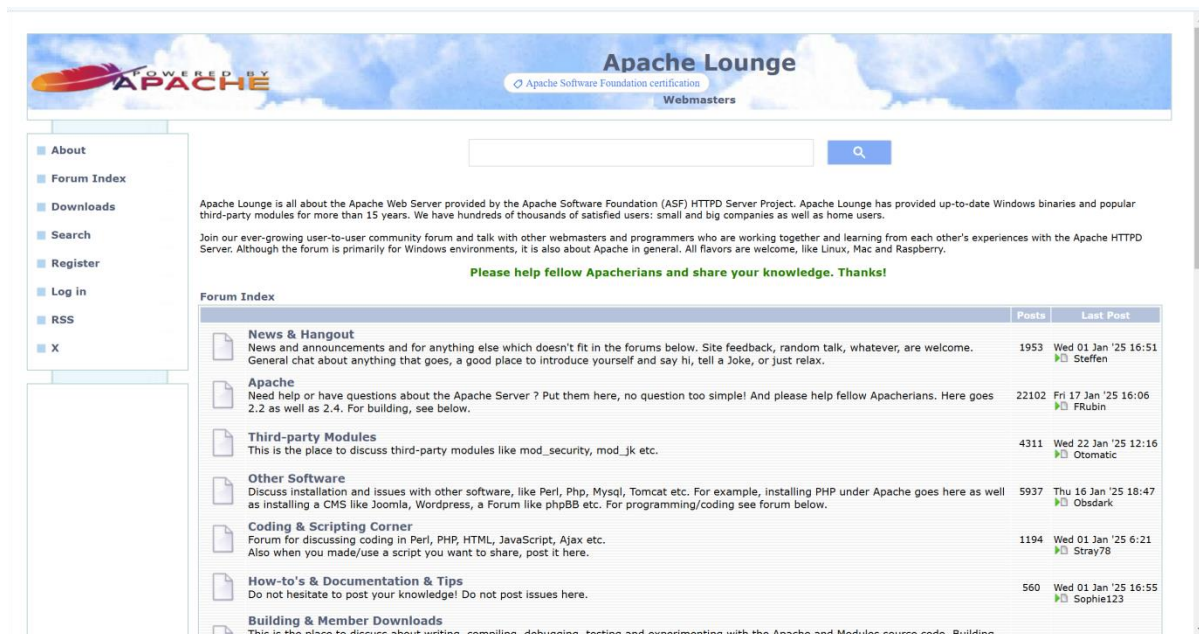
## Step-by-Step Overview

# Step1:

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



# Step 2 :



## Step 3 :



The screenshot shows the Apache Lounge website. The header includes the Apache logo and the text "POWERED BY APACHE" and "Apache Lounge". Below the header, there is a navigation menu with "Home", "VS17", and "Additional". The main content area is titled "Apache 2.4 VS17" and "Windows Binaries and Modules". It contains a search bar, a description of the binaries, and a list of updates. The updates list includes dates and descriptions of updates, such as "17 November 2024 New C++ Redistributable" and "06 November 2024 mod\_security Update". The main content area also features a section for "Apache 2.4 binaries VS17" with links to "Info & Changelog" and "Download".

## 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\CHELSTIAH\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin
```

## Step 5 :

Then Run the installation command :

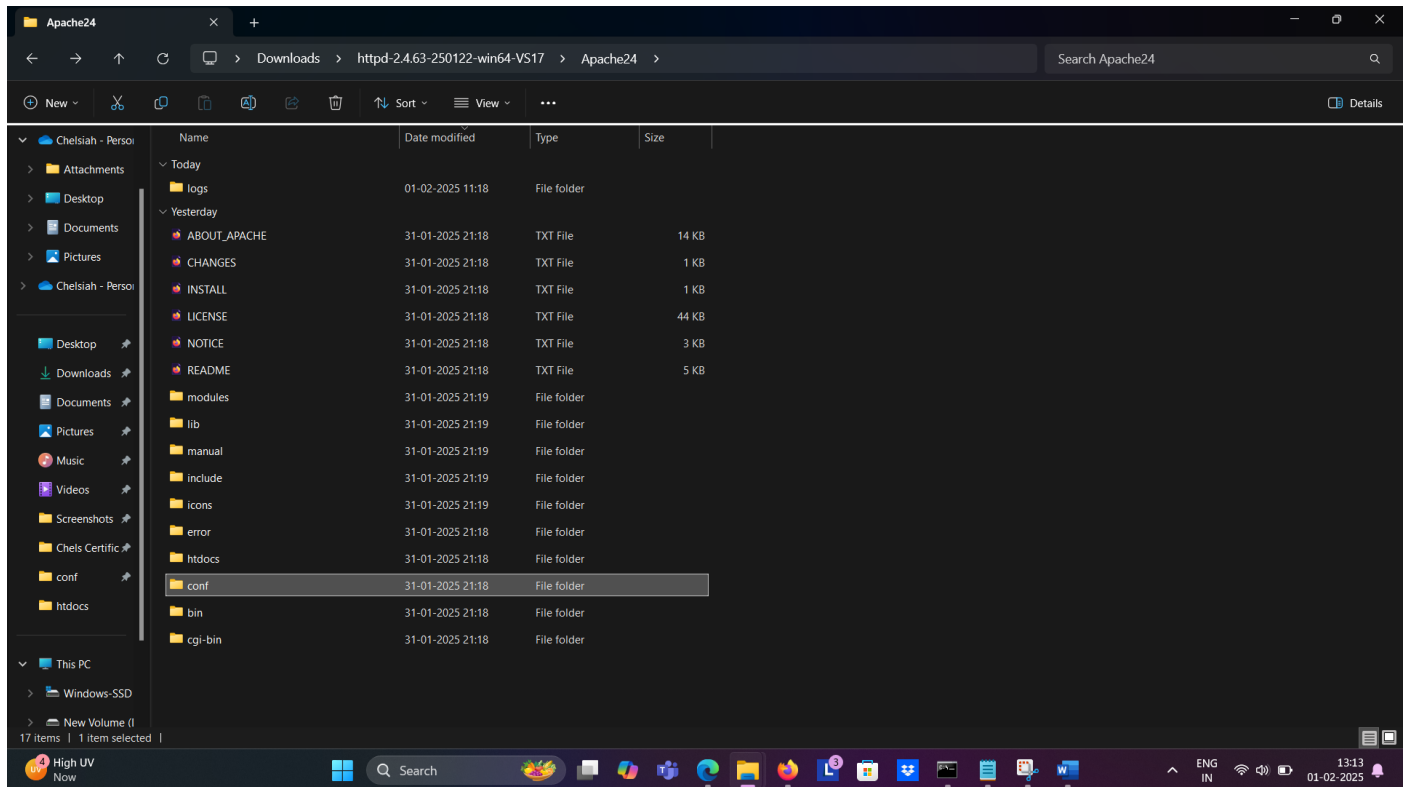
**httpd.exe -k install**

```
C:\Users\CHELSTIAH\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 :

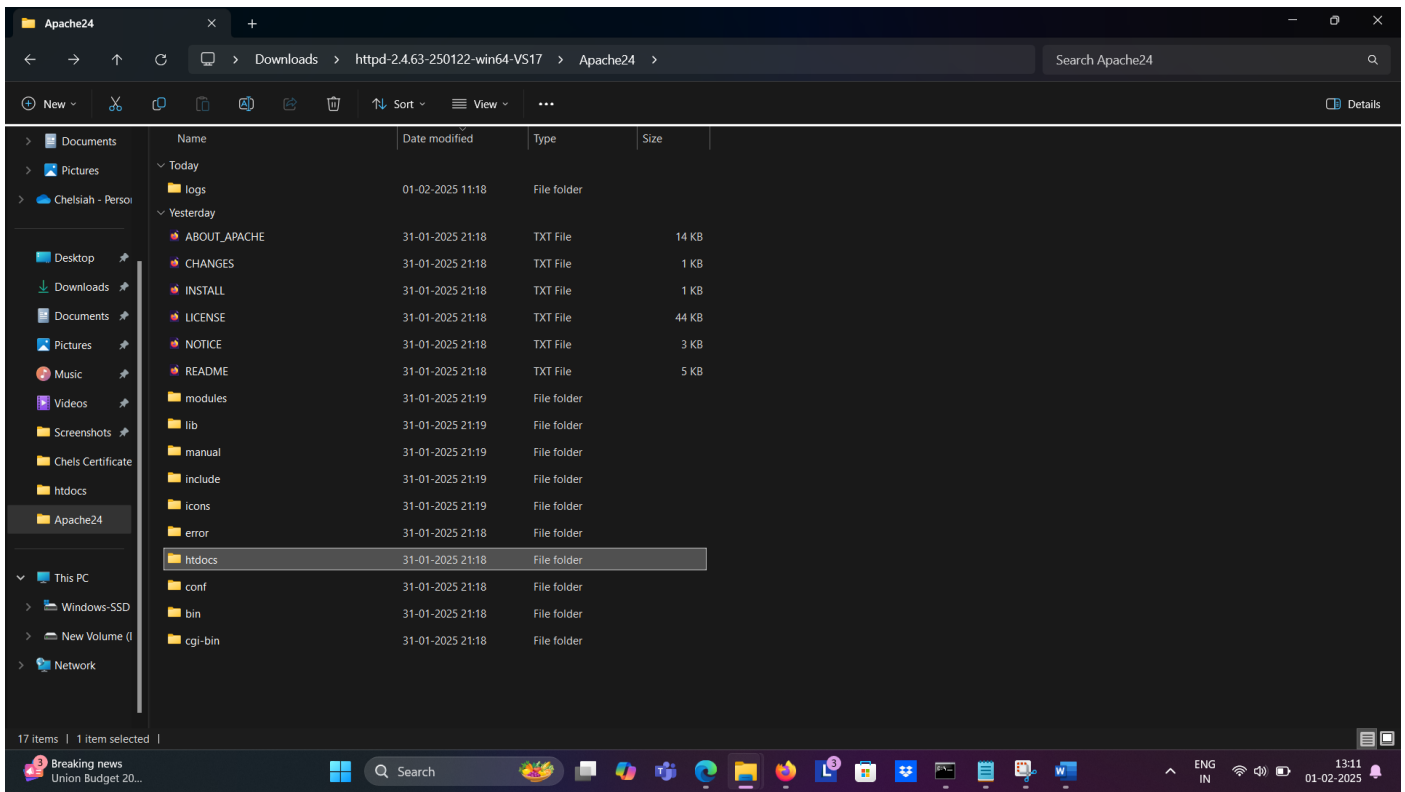
Navigate to the Apache folder you downloaded, go to the **conf** folder, and right-click on the httpd.conf file; select 'Edit with Notepad'

(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**'.

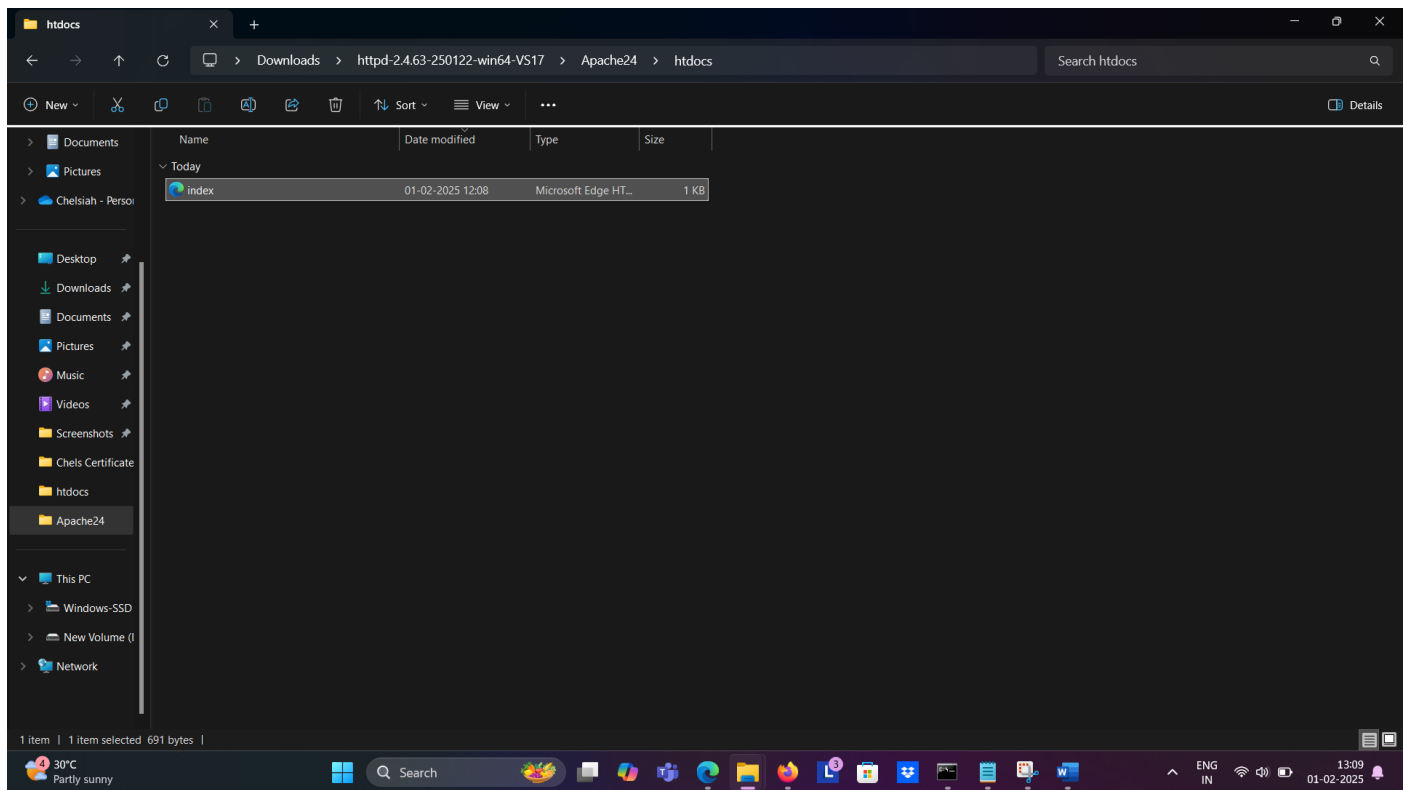
```
C:\Users\CHELSIAH\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -t
Syntax OK
```

## 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).

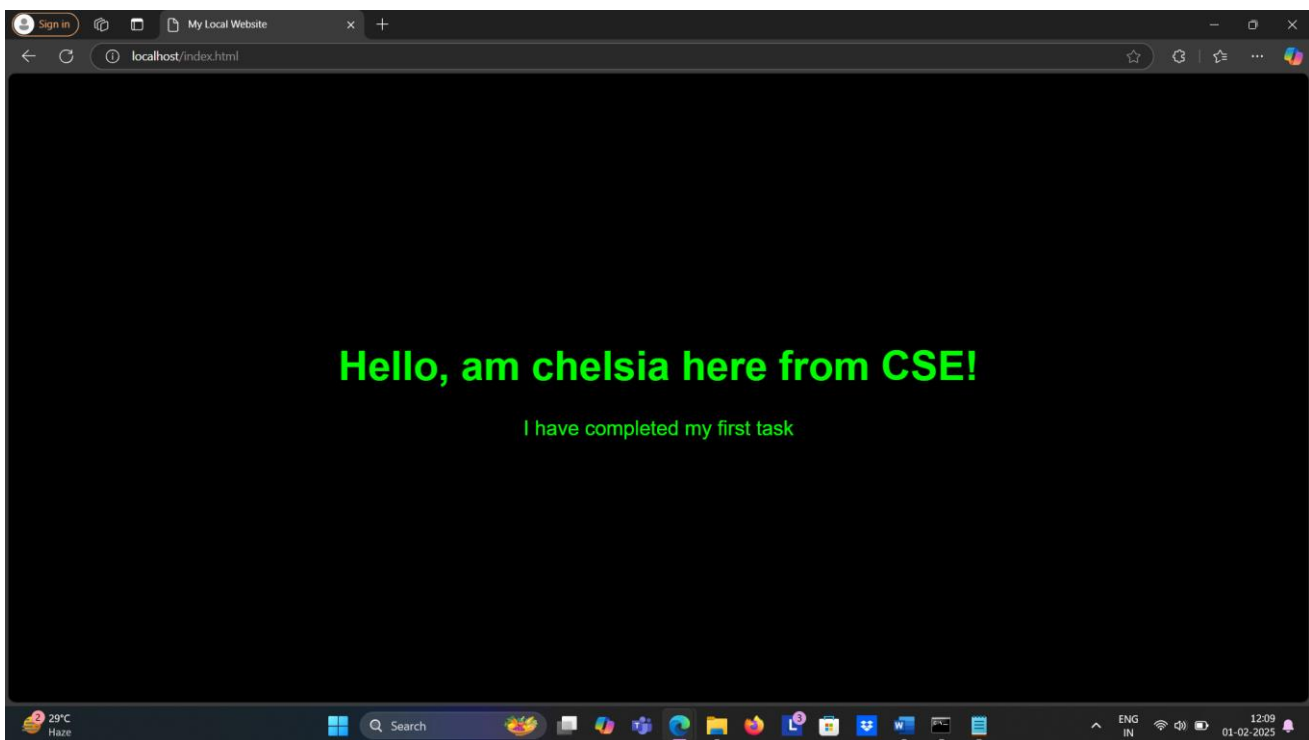
```
File Edit View

<!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>

Ln 29, Col 40 655 characters 100% Windows (CRLF) UTF-8
```

## 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.