Placement Empowerment Program

Cloud Computing and DevOps Centre

Host a Static Website Locally:

Set Up a Local Server Apache and Host a Simple HTML page with your name

Name:**Priyadharshini S**   Department **: ADS**

Introduction and Overview

In this Proof of Concept (POC), we will explore hosting a static website locally using the Apache HTTP Server. This involves setting up a local web server and ensuring it is configured correctly. We will host a simple HTML page to demonstrate the process. By following these steps, you will gain hands-on experience in configuring and running a local Apache server.This foundational skill is essential 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

It provides several benefits, including:

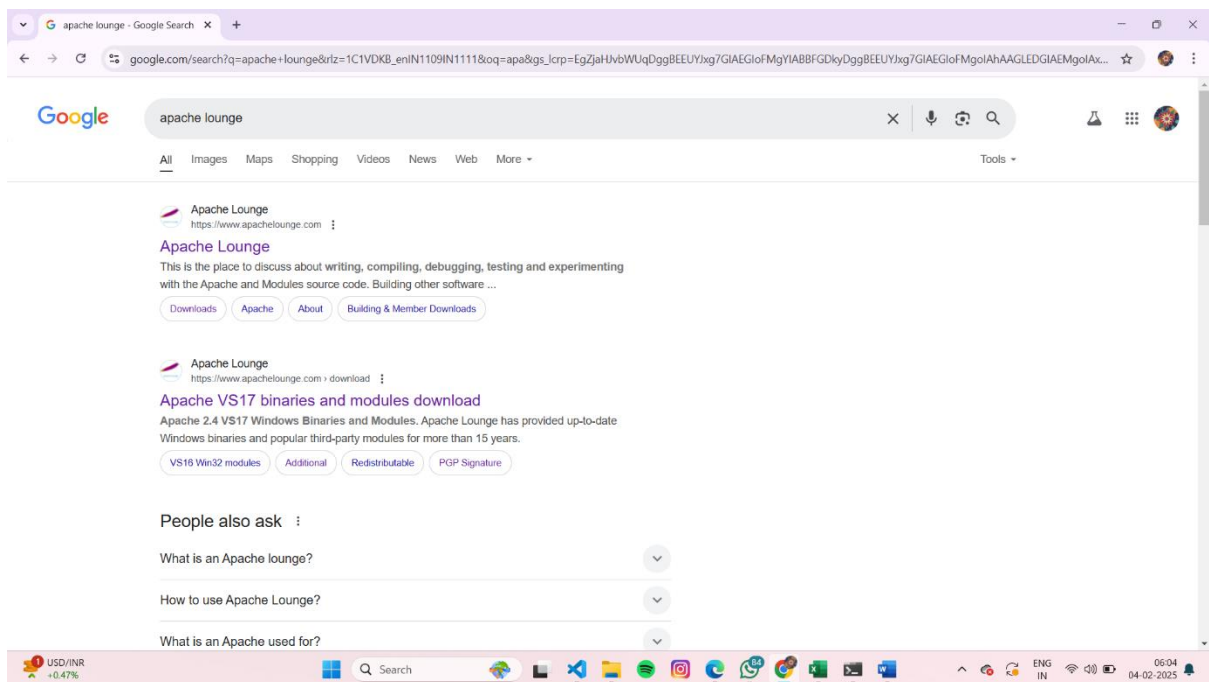**Practical Experience:** Learn server setup and configuration through hands-on practice.

Safe Testing: Debug and optimize websites before deploying them to a live server.

Offline Development: Work on web projects without relying on an active internet connection.
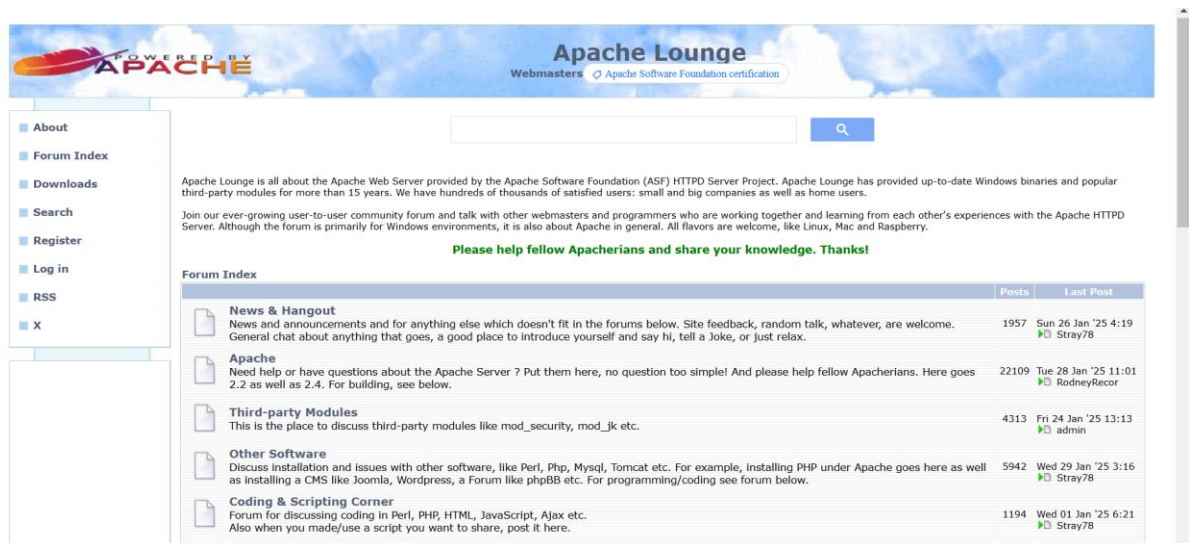
Step-by-Step Overview:

Step 1:

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

Step 2:

Click on the "Downloads" option located on the left-hand side of the Apache   Lounge website.

Step 3:

Click on the link **"Apache 2.4.62-240904 Win64"** (Windows version), download the file, and extract all its contents.

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:\Users\pd169>cd C:\Users\pd169\Downloads\httpd-2.4.63-250122-win64-VS17(2)\Apache24\bin
```

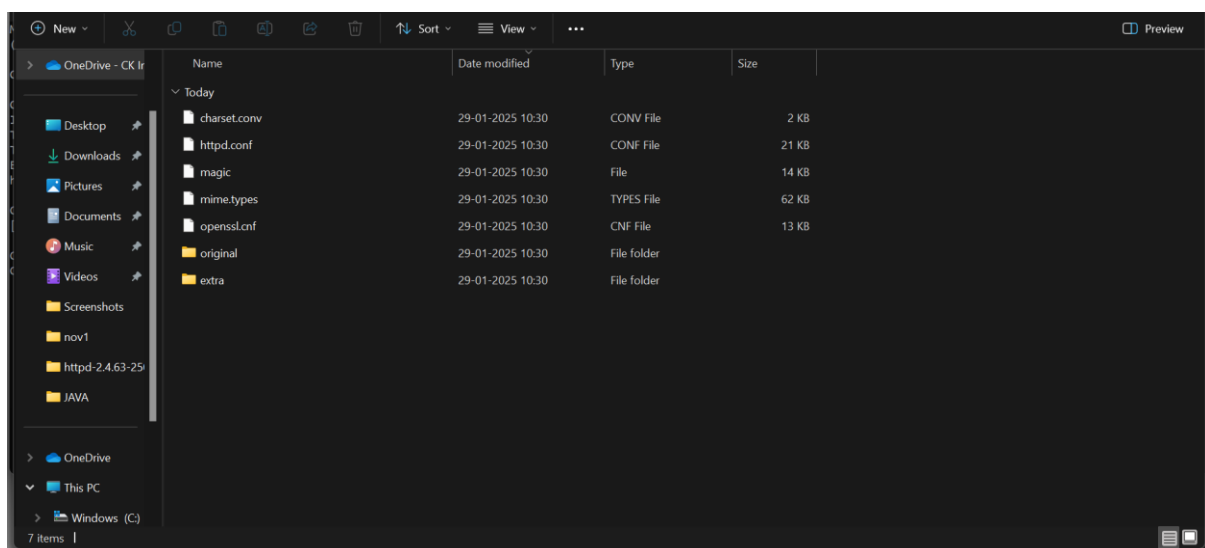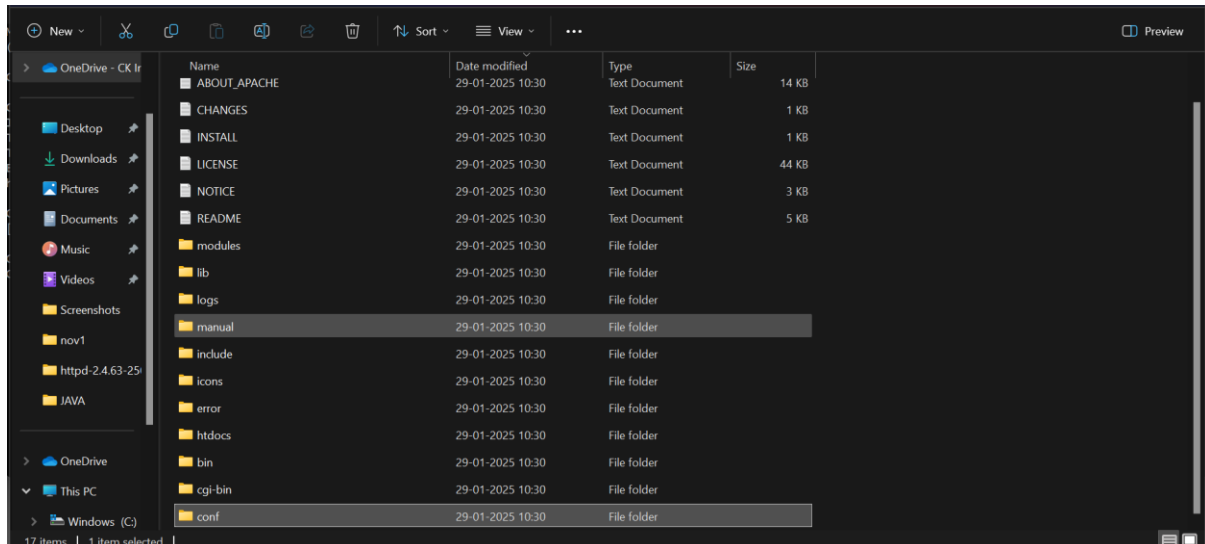# Step 5:

Then Run the installation command :

httpd.exe -k install

```
C:\Users\pd169>\Downloads\httpd-2.4.63-250122-win64-VS17(2)\Apache24\bin>httpd.exe -k install
```

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. This configuration defines the server's root directory, listening port, modules, document root for serving web files, logging paths, and basic permissions, ensuring Apache serves content correctly from the specified htdocs directory.
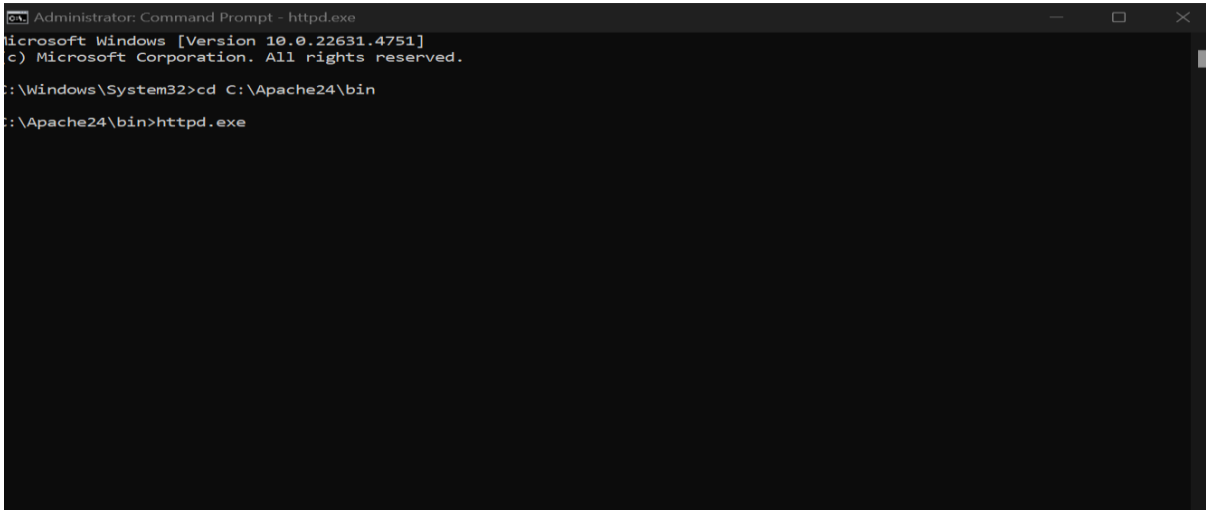
```
Define SRVROOT "C://Apache24
```

Step 8:

Use "ctrl+f" to search and there look for 80 there will be given like this in the image as shown.

Step 9:

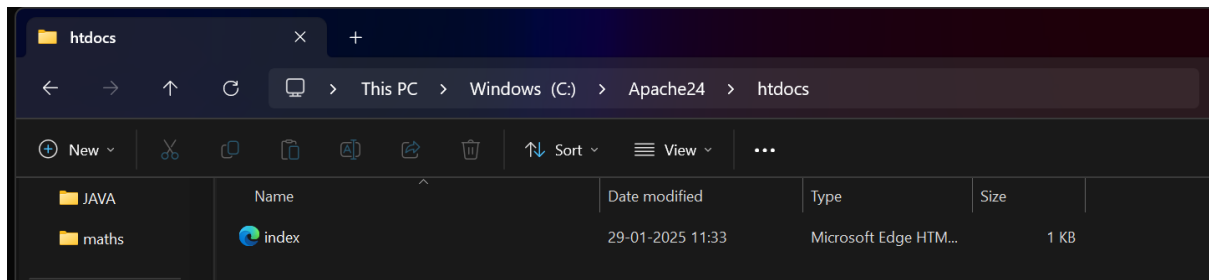Then to move to the file use cd <file path> and install httpd.exe

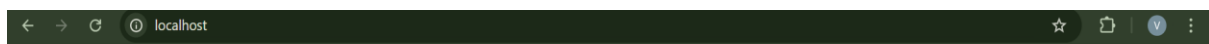# Step 10:

Copy your website files(HTML,CSS,JAVASCRIPT etc) to the c:\Apache24\htdocs directory.

Step 11:

Open a web browser and go to http://localhost . Now your website will be hosted and displayed.

Expected Outcome

After completing the steps outlined in the document, you should achieve the following:

1. **Apache HTTP Server Installed** – Apache will be successfully installed on your local machine.

2. **Configuration Updated** – The httpd.conf file will be modified to include correct paths and settings.

3. **Web Files Hosted** – Your HTML, CSS, and JavaScript files will be placed inside C:\Apache24\htdocs.

4. **Local Server Running** – Apache will be running in the background, serving files from the specified directory.

5. **Website Accessible** – Navigating to http://localhost in a web browser will display the hosted HTML page.