**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

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**Introduction and Overview**

In this POC, we’ll set up a local web server using Apache HTTP Server to host a simple HTML page. This hands-on process will teach you the basics of configuring and running an Apache server for local web hosting

**Objective**

1. Set up an Apache web server locally.

2. Configure it to serve static files.

3. Host a basic HTML page that shows your name.

**Importance of Local Hosting**

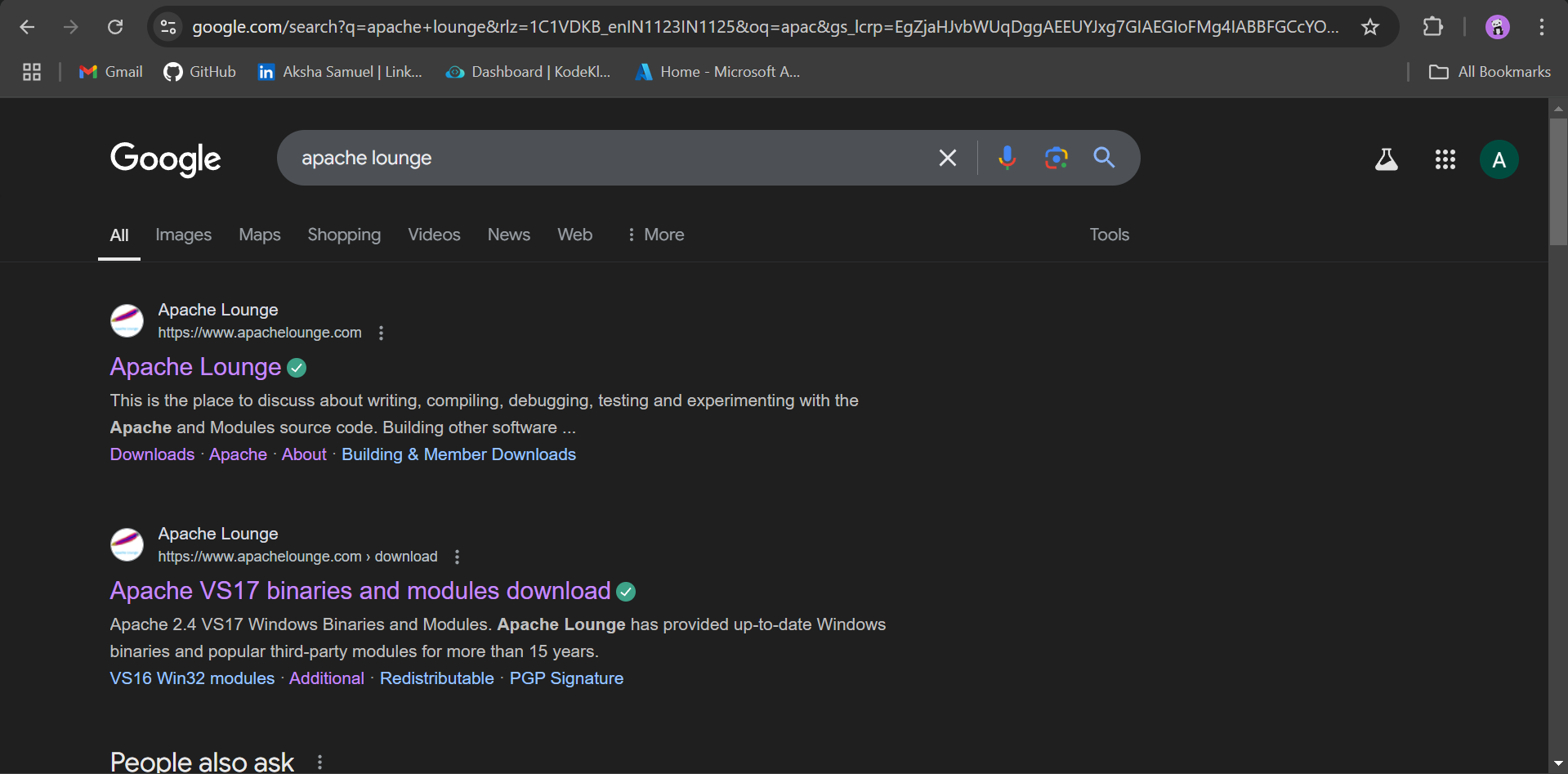
Local hosting is a valuable skill for developers, providing a controlled space to test and improve web applications. It offers:

* **Practical Experience:** Learn by setting up and configuring a server.
* **Safe Testing:** Debug and refine websites before going live.
* **Work Anytime:** Develop without needing an internet connection.

**Step-by-Step Overview**

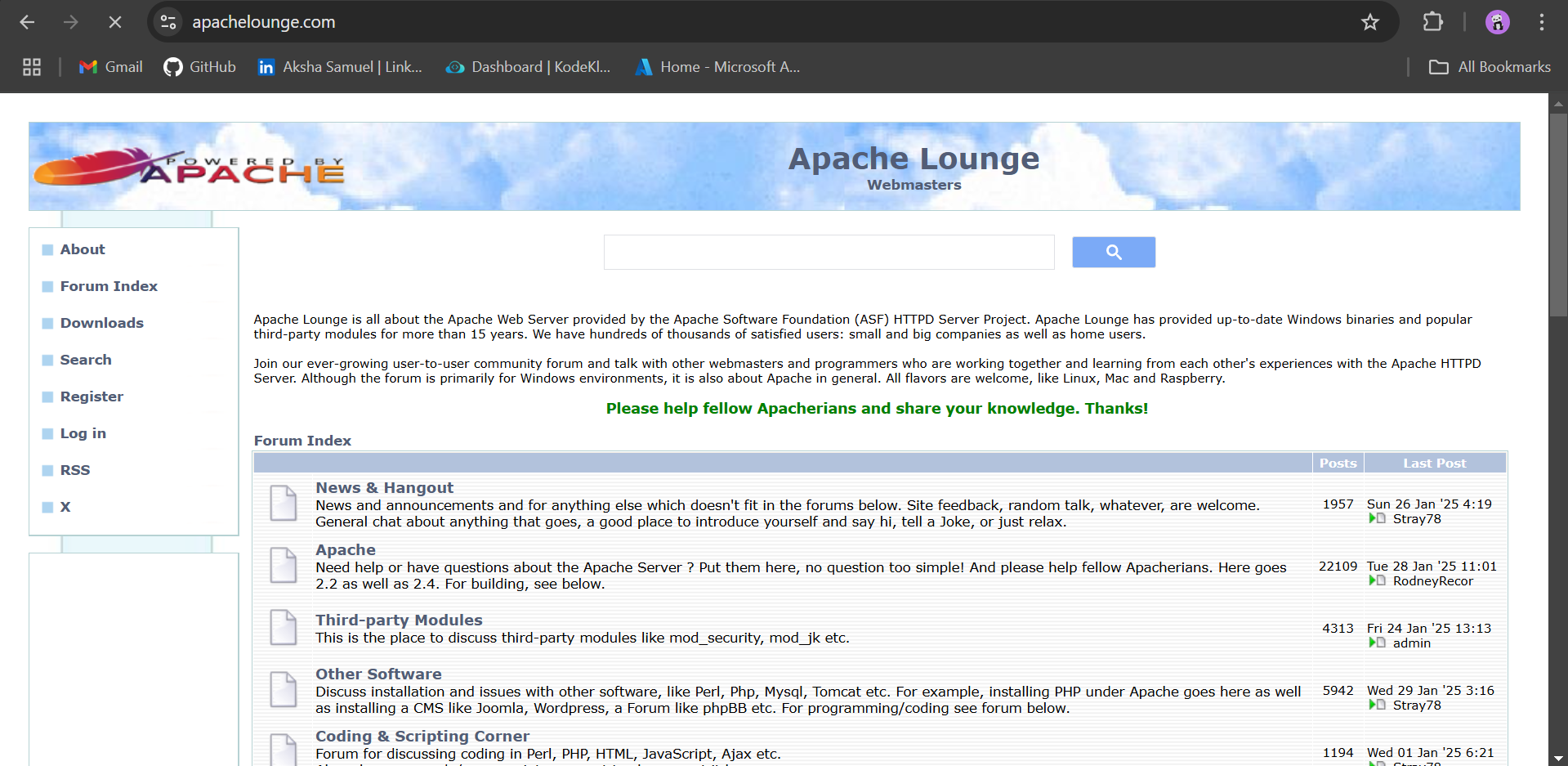
Step1:

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



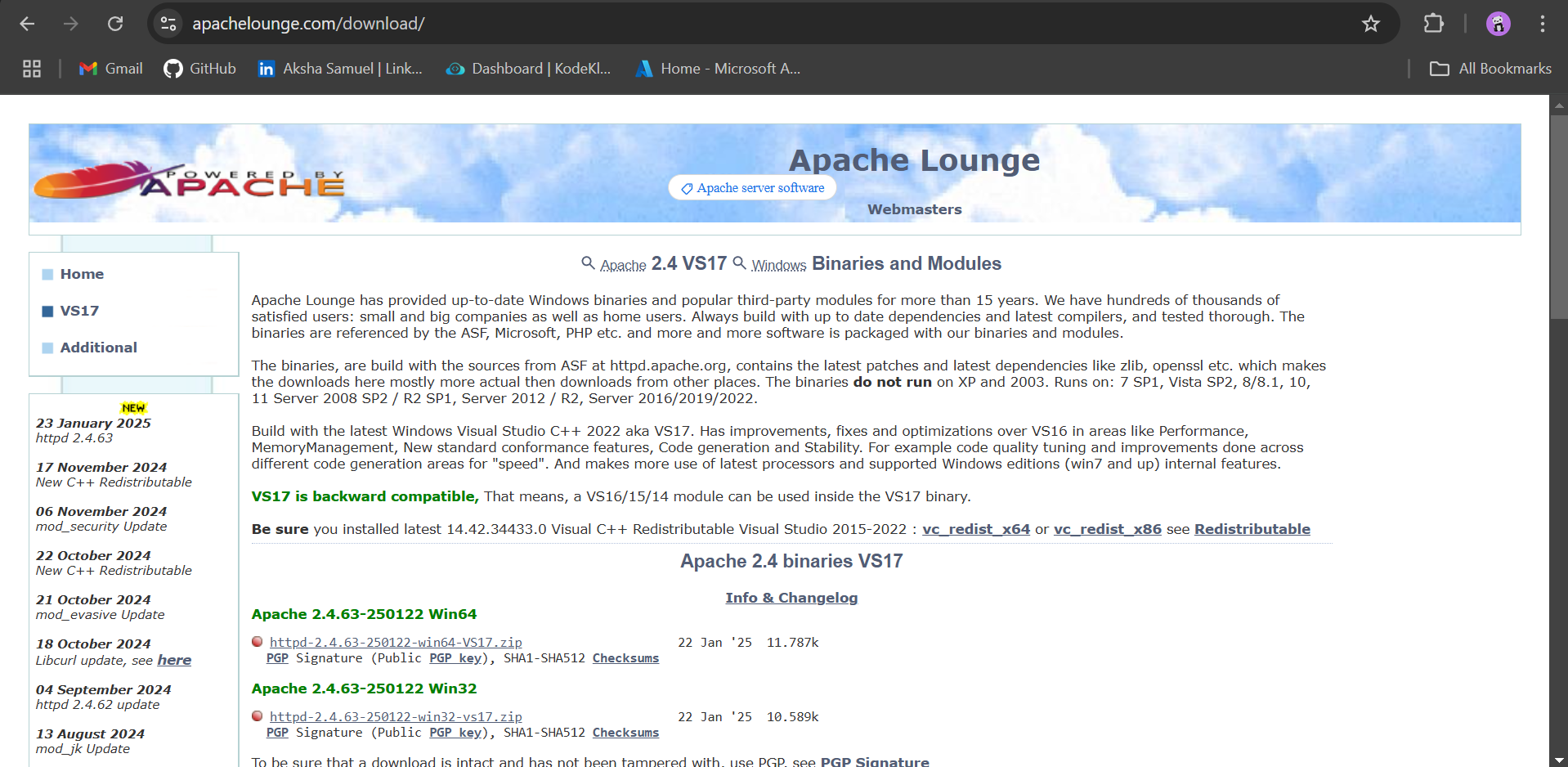
Step 2 :

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.

Screenshot 2025-01-22 155734.png

Step 5 :

Then Run the installation command :

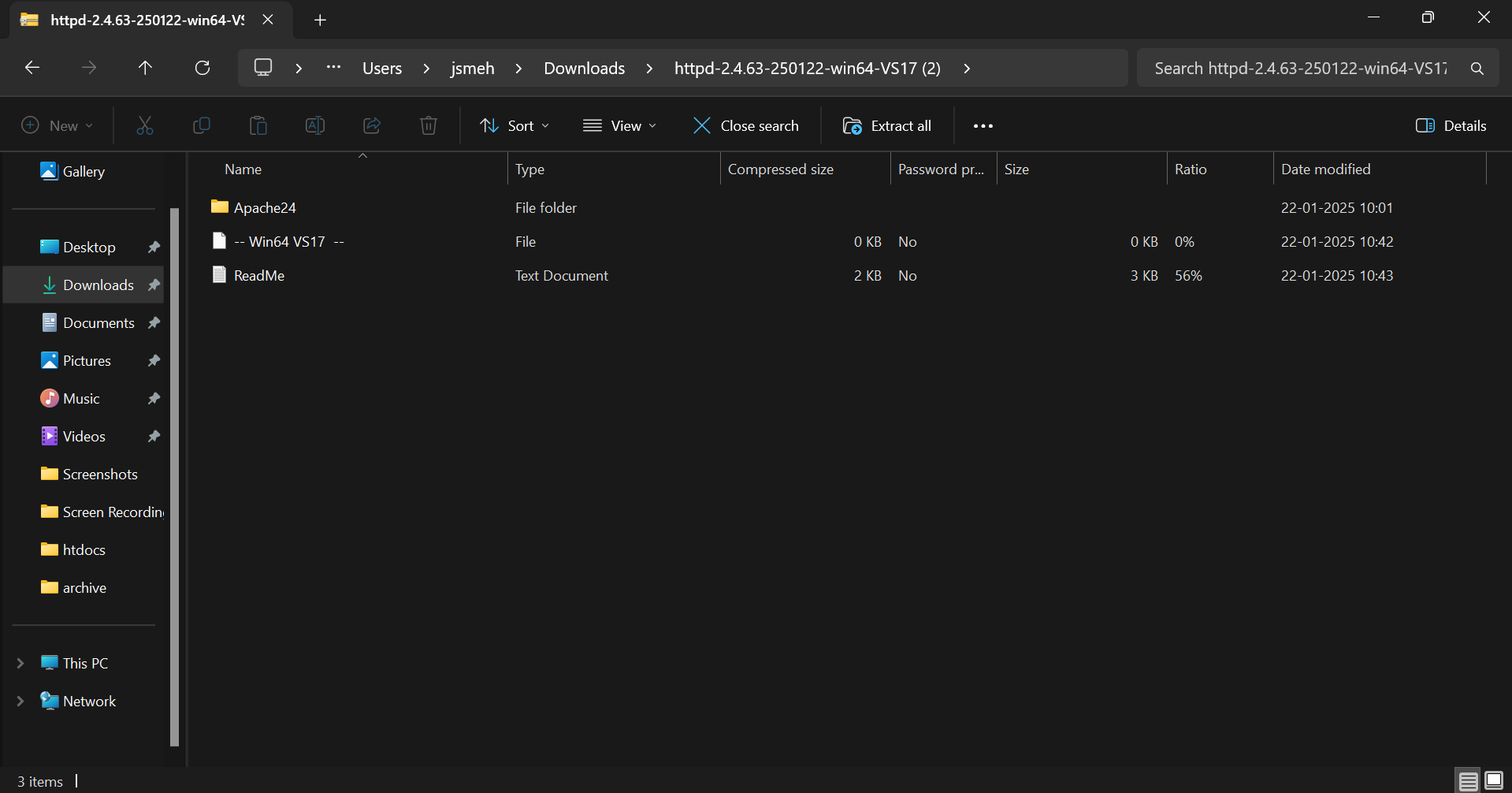
**httpd.exe -k install**

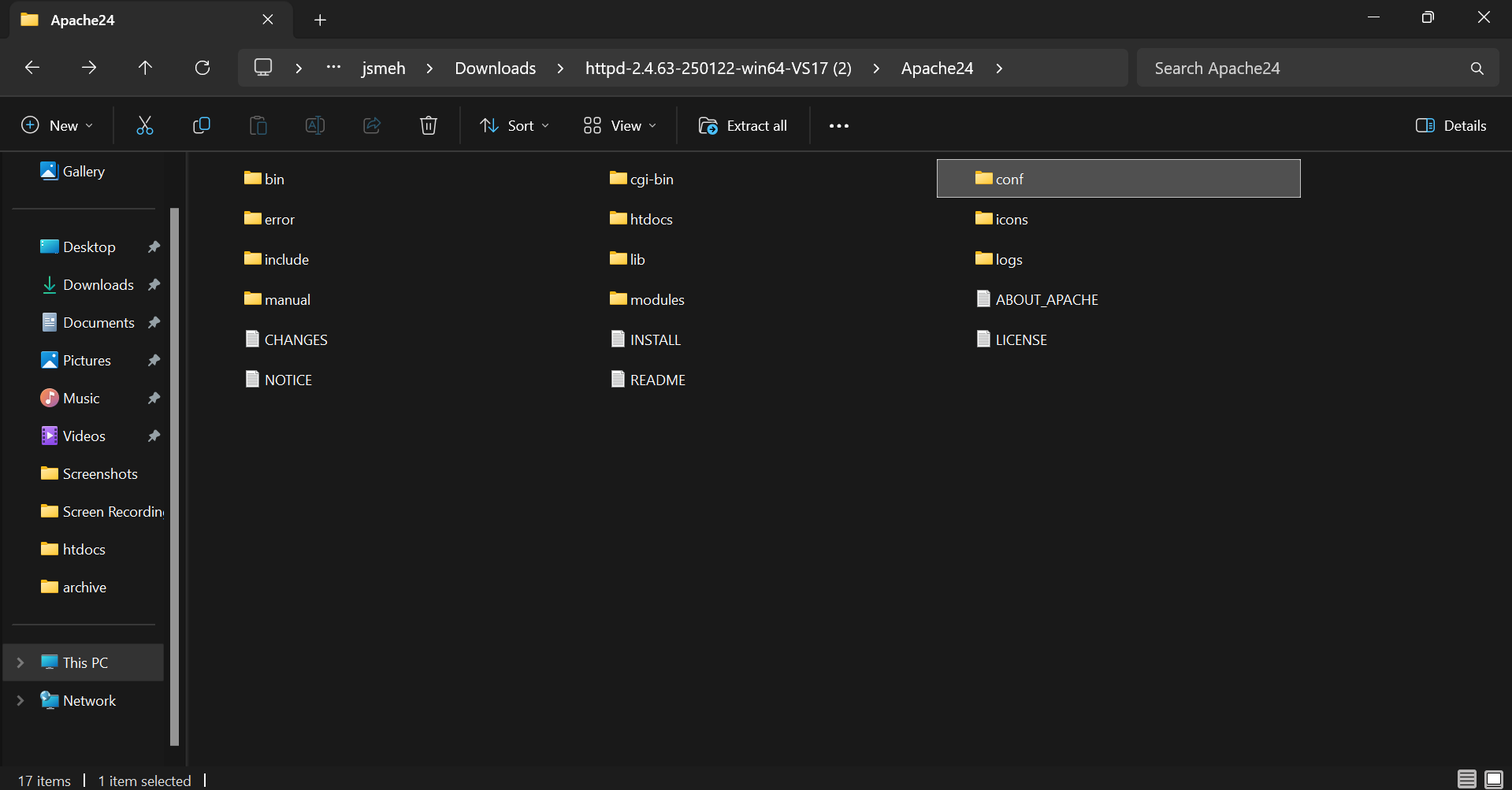


Step 6 :

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.





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**'.



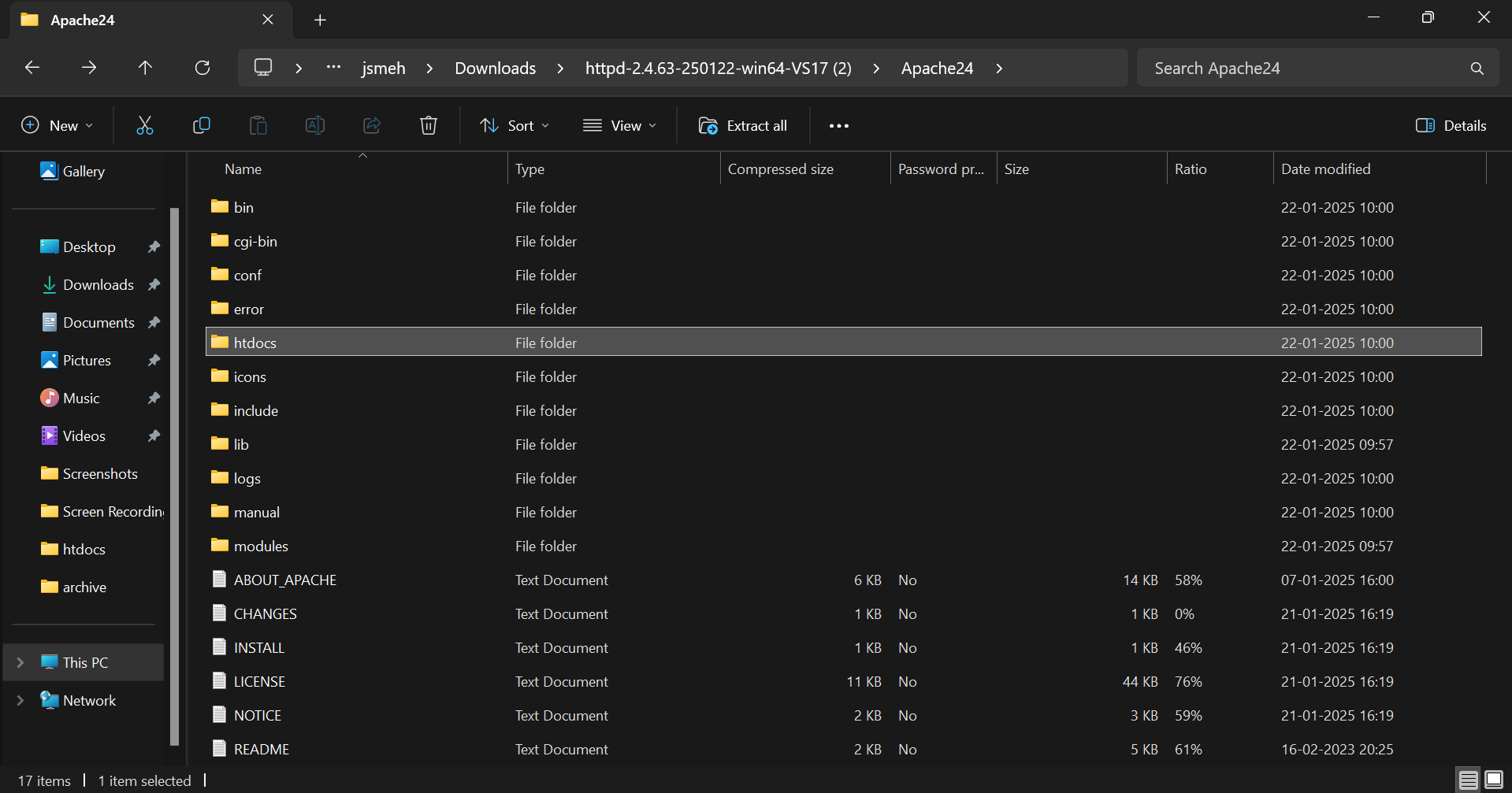
Step 9 :

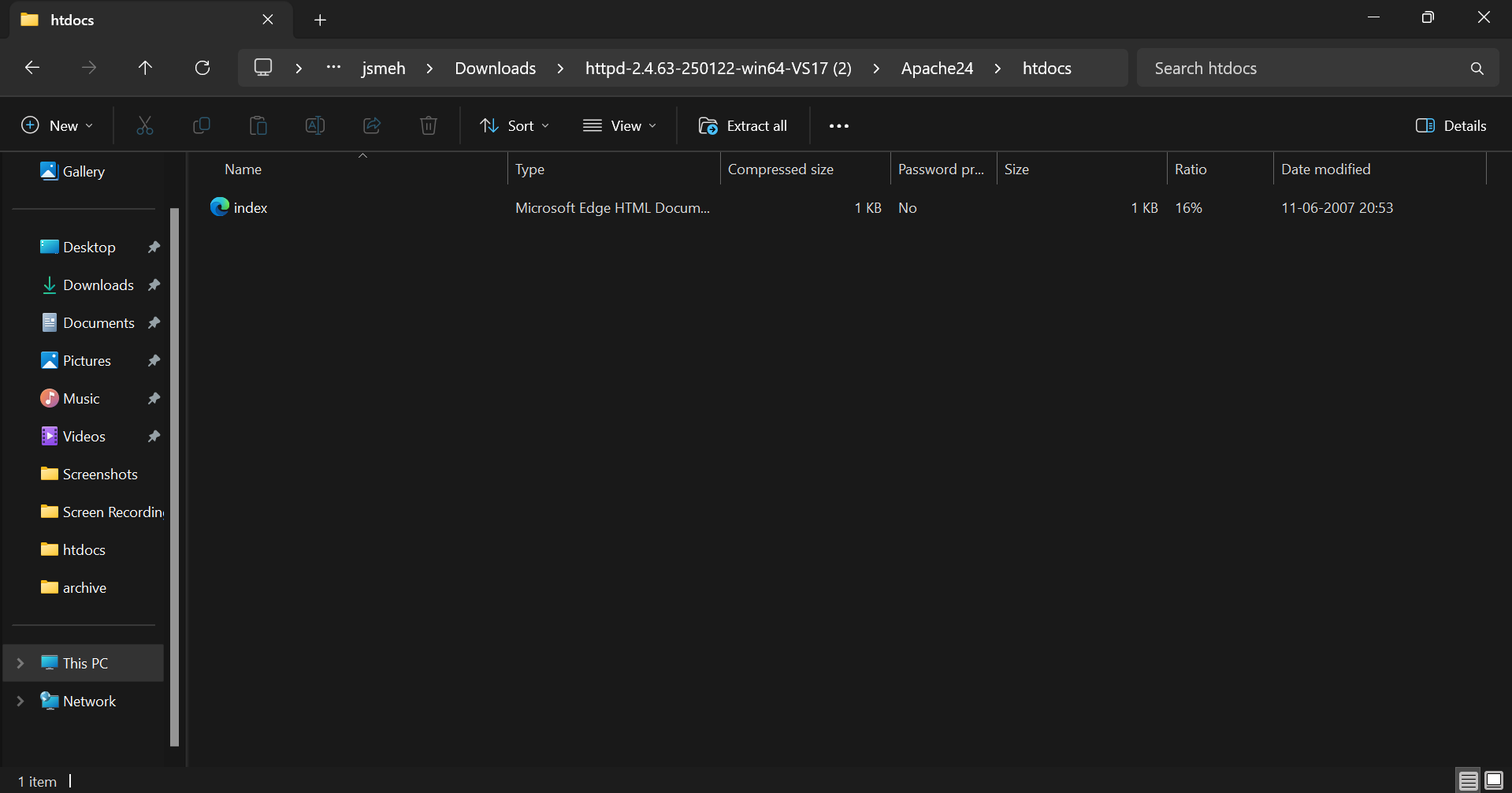
Run the command **httpd.exe -k** start to start the Apache server.



Step10:

Go to the Apache folder, navigate to the **htdocs** folder, and find the **index.html** file. Right-click on it and select 'Edit with Notepad'.





Step 11 :

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



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.