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

Hosting a static website locally involves setting up a local web server to serve HTML content. This approach is useful for testing and previewing web applications before deploying them to a production environment.

Overview

In this POC, we will:

- Install and configure a local server (Apache or Nginx) on a Windows machine.
- Host a simple HTML page with your name as the content.
- Test the setup by accessing the hosted webpage in a browser.

Objective

The primary objective is to demonstrate the ability to host a static website locally using an open-source server Apache on a Windows environment.
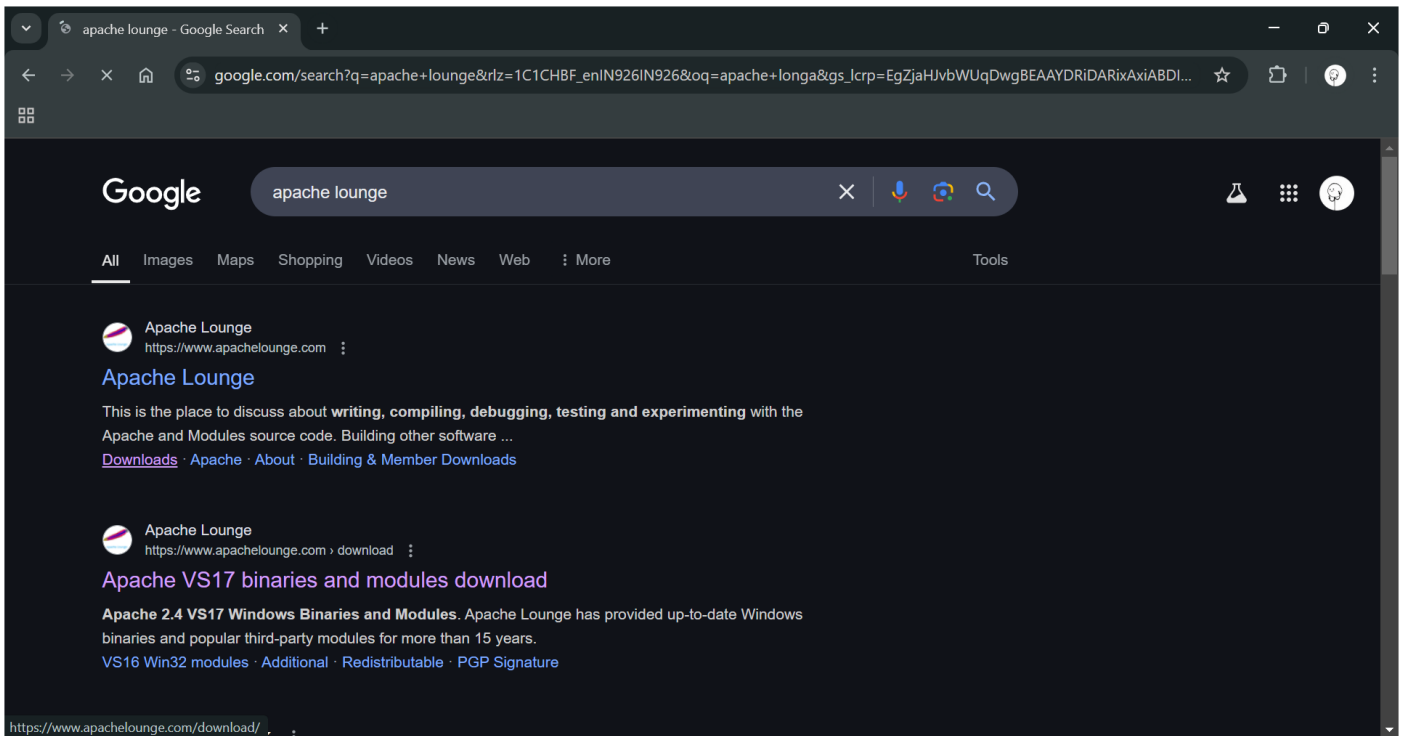
Importance

- Enables testing and debugging web applications locally.
- Provides insights into web server configuration.
- Lays the foundation for learning advanced web hosting and deployment techniques.

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.

Then Run the installation command :

httpd -k install
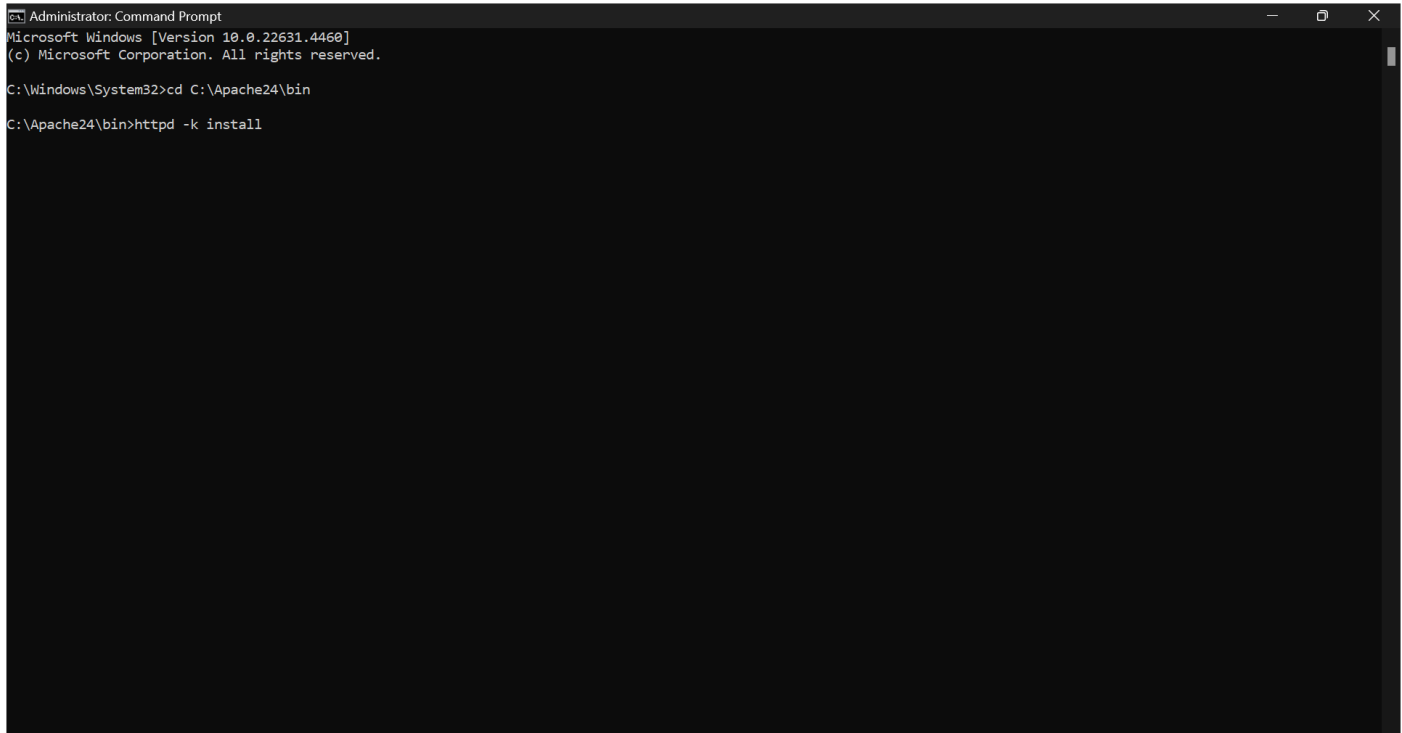
Step 5 :

go to the services in the PC and search for apache2.4 and click the start button to start apache in your pc

Step 6 :

- Apache's Document Root Directory

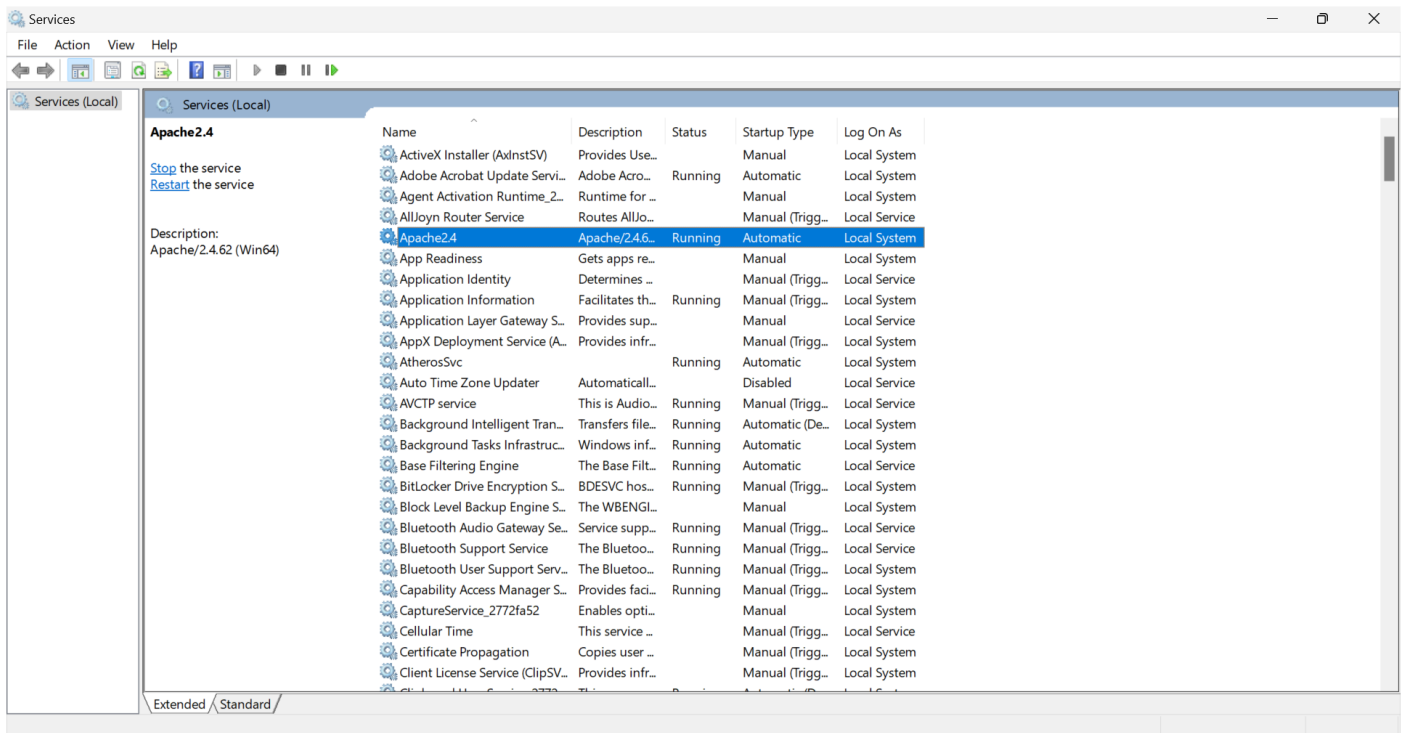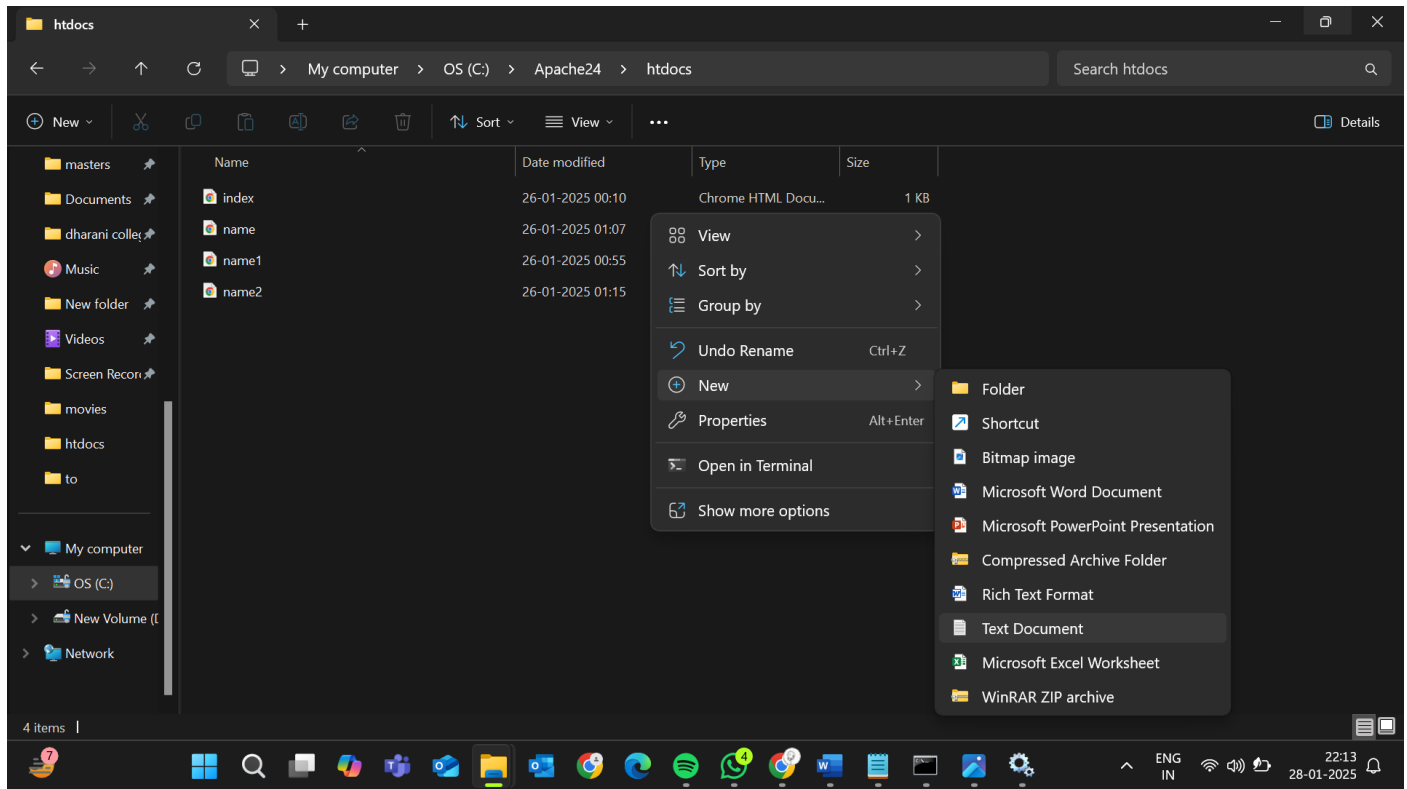The document root is the directory where Apache serves files from. By default, it's often:

C:\Apache24\htdocs (if installed manually)
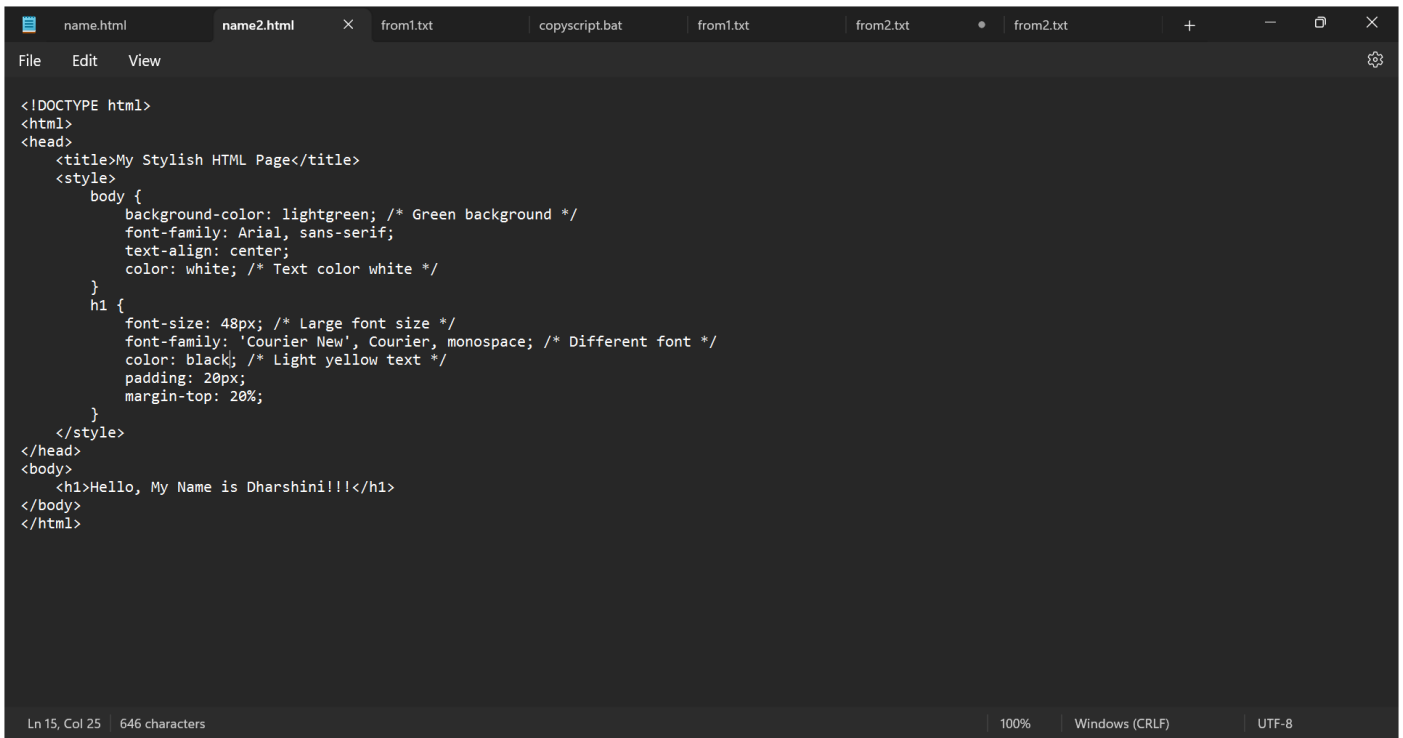

- Navigate to the Document Root

Open File Explorer and go to the document root directory.

- Create a New File

You can create a new file in the document root directory:

Using Notepad:

1. Right-click inside the folder, select New > Text Document.

2. Rename it (e.g., index.html).

3. Open the file with Notepad, add html code to create simple model to display your name, and save.

```html
<!DOCTYPE html>
<html>
<head>
    <title>My Stylish HTML Page</title>
    <style>
        body {
            background-color: lightgreen; /* Green background */
            font-family: Arial, sans-serif;
            text-align: center;
            color: white; /* Text color white */
        }
        h1 {
            font-size: 48px; /* Large font size */
            font-family: 'Courier New', Courier, monospace; /* Different font */
            color: black; /* Light yellow text */
            padding: 20px;
            margin-top: 20%;
        }
    </style>
</head>
<body>
    <h1>Hello, My Name is Dharshini!!!</h1>
</body>
</html>
```

Step 7:

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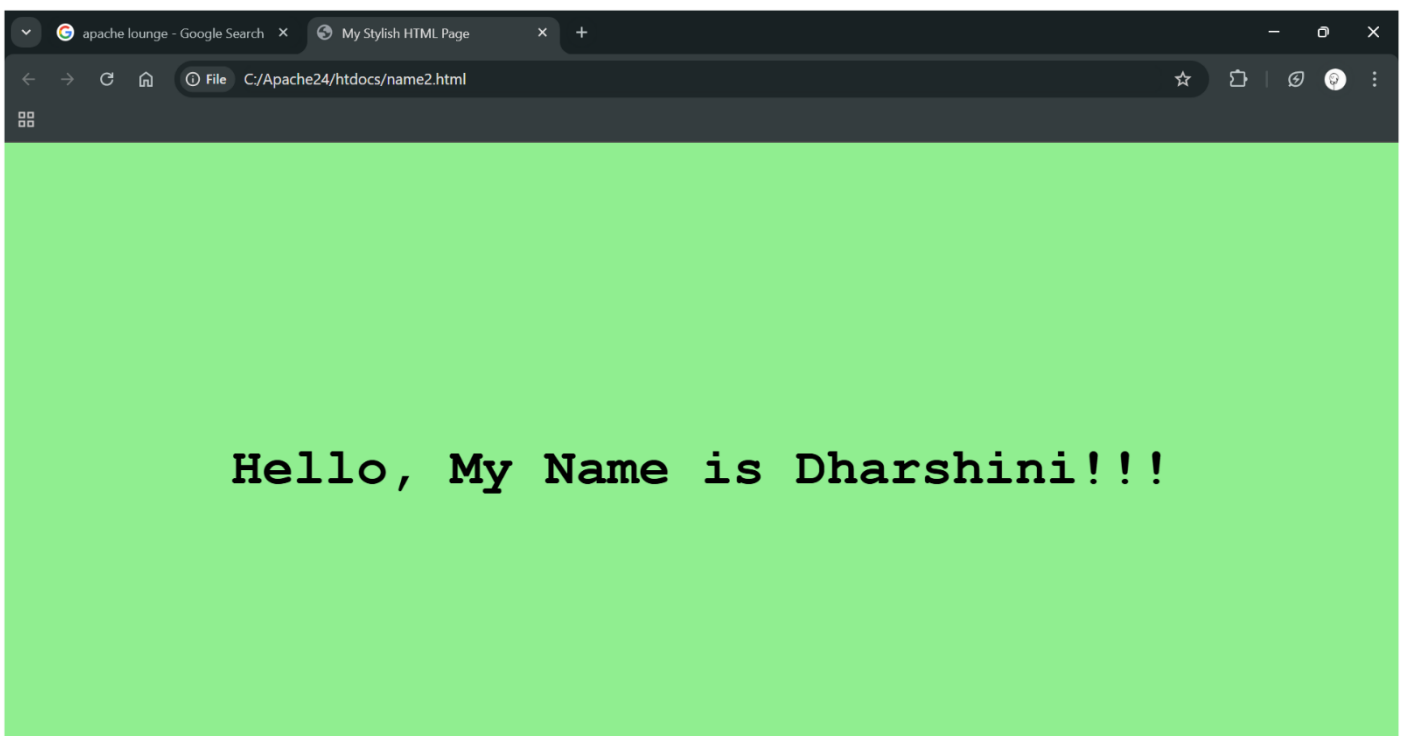
Expected Outcome

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.