Lab Exercise 21- Building a Docker Image for

an HTML App Using Nginx

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1. Setup

You will need:

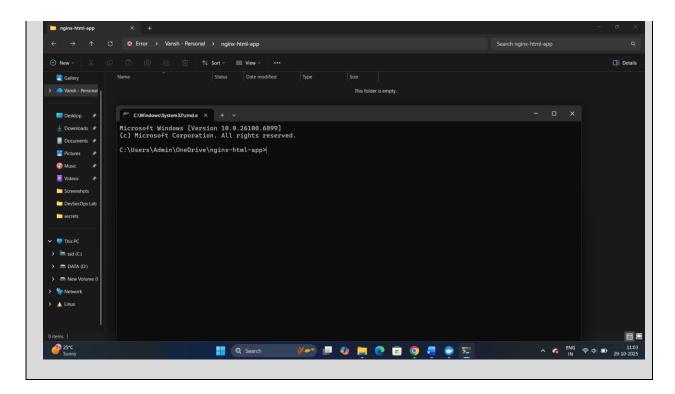
- Docker installed on your machine.
- A simple HTML file for the app.

2. Step 1: Create the HTML File

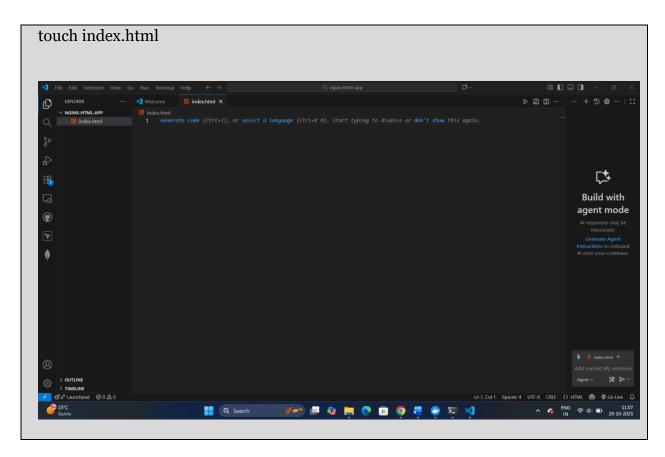
Create a directory for your HTML app and place an index.html file in it.

mkdir nginx-html-app

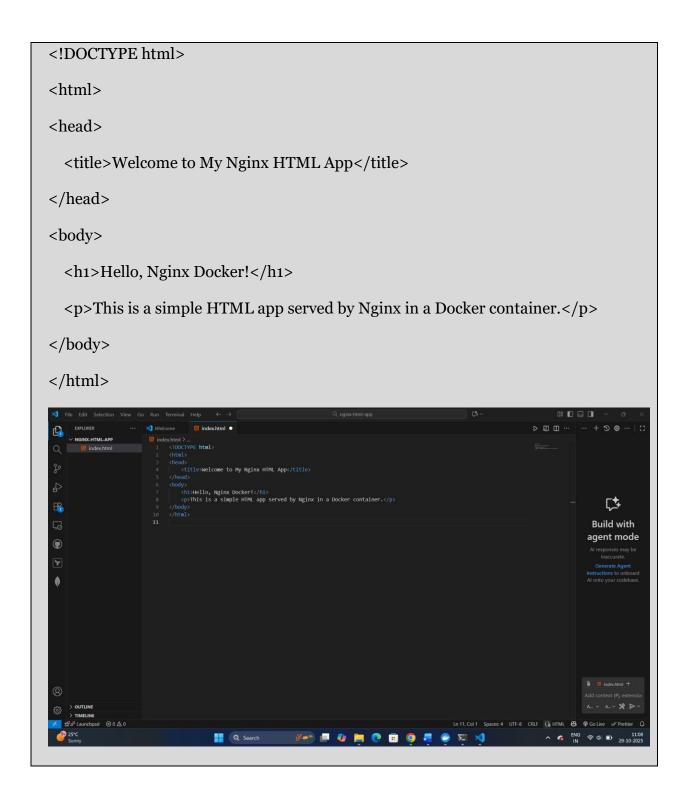
cd nginx-html-app



Inside the nginx-html-app directory, create the HTML file.



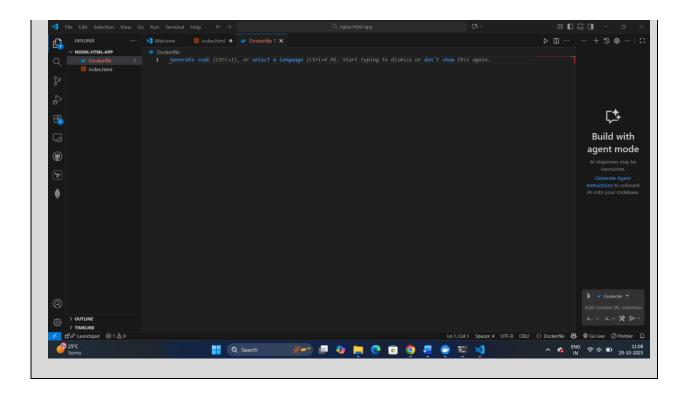
Edit the index.html file with the following content (or any custom HTML content you want):



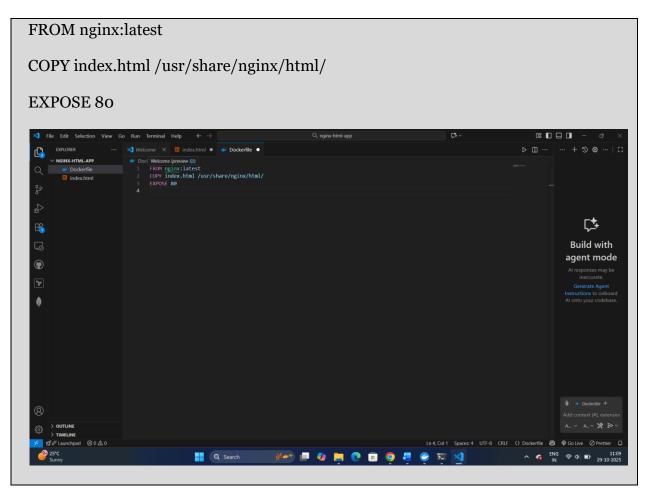
3. Step 2: Create a Dockerfile

In the same directory, create a Dockerfile. This file will define how to build the Docker image using Nginx as the base image.

touch Dockerfile

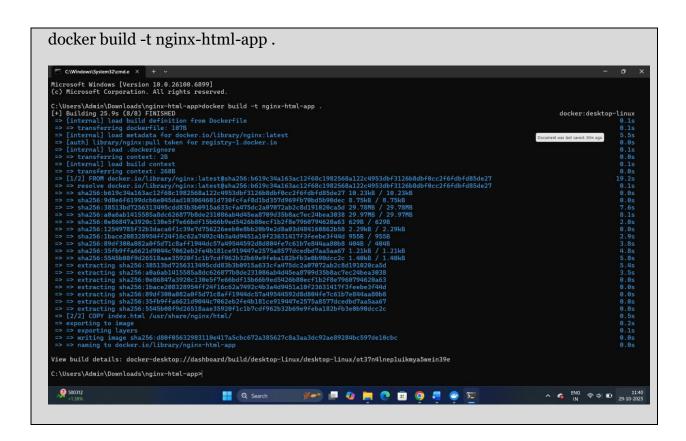


Edit the Dockerfile and add the following content:



4. Step 3: Build the Docker Image

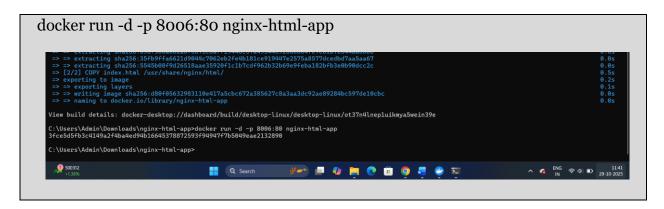
Now that you have the Dockerfile and index.html, it's time to build the Docker image. Run the following command to build the image, giving it a tag (e.g., nginx-html-app):



Docker will use the Nginx base image, copy your index.html into the appropriate directory, and build the image.

5. Step 4: Run the Docker Container

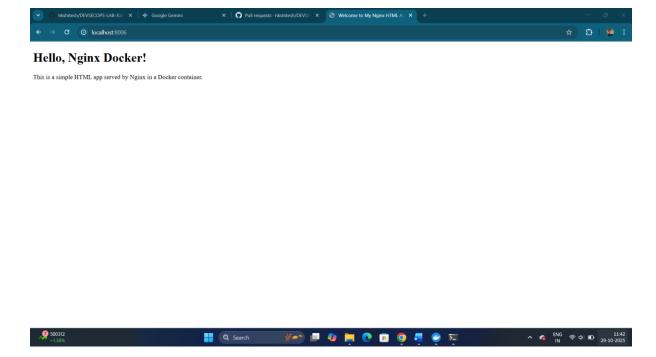
After building the image, you can run the container with the following command:



This command runs the container in detached mode (-d) and maps port 8006 on your host machine to port 80 inside the container, where Nginx is serving your HTML app.

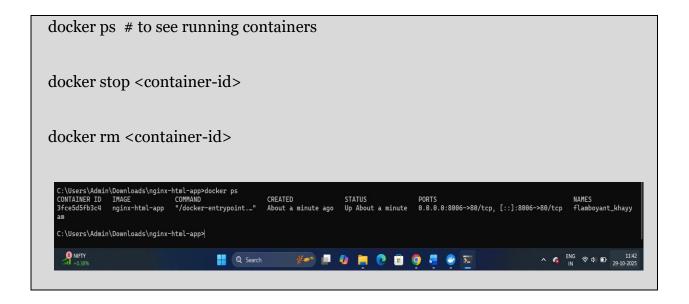
6. Step 5: Verify

Open a browser and go to http://localhost:8006. You should see your HTML page with the message "Hello, Nginx Docker!".



7. Step 6: Stop and Remove the Container

Once you're done, you can stop and remove the container:



Step 7: Tag the local image and push it to DocHub (Done by Self)

