DOCKER ASSIGNMENT

1. AUTOMATE DOCKER BUILT AND PUSH USING JENKINSFILE

STEP 1: Setup a Simple Flask App Project Structure

my-flask-app

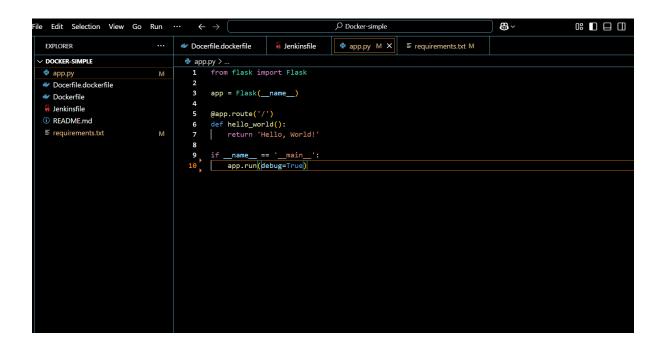
— app.py
— requirements.txt
— Dockerfile
— Jenkinsfile

app.py: The main Flask application file.

requirements.txt: List of dependencies (Flask and others).

Dockerfile: Defines the Docker image for the Flask app.

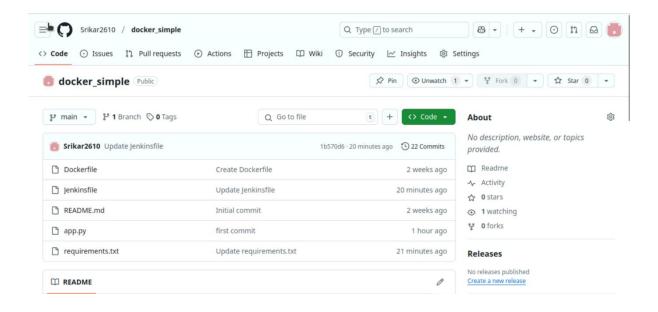
Jenkinsfile: Contains the Jenkins pipeline configuration



STEP 2: Push the Code to GitHub

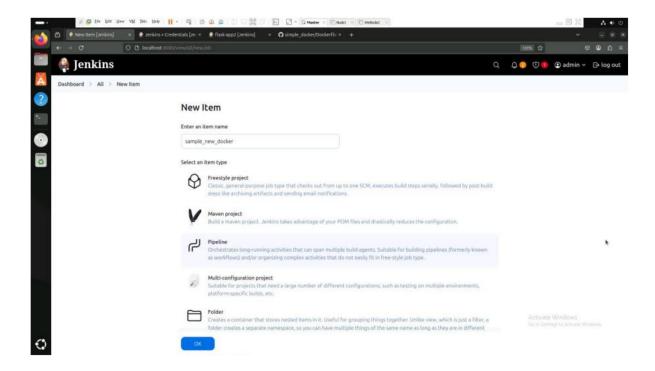
- Make sure you have a GitHub repository created for the project.
- Push all the files (app.py, requirements.txt, Dockerfile, Jenkinsfile) to the GitHub repository

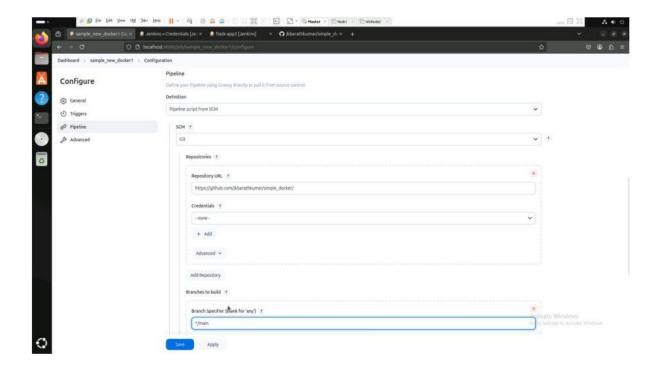
GITHUB URL for the code: https://github.com/Srikar2610/docker simple.git



STEP 3: Create a New Pipeline in Jenkins

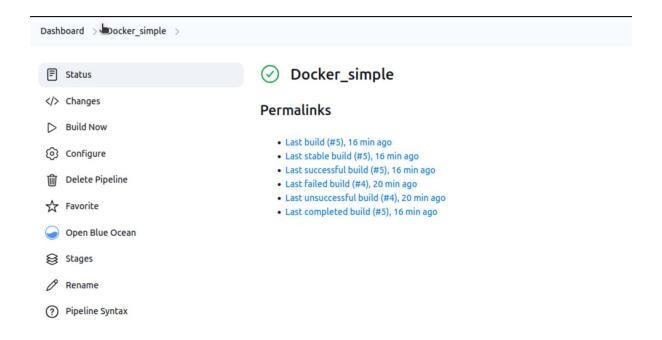
- In Jenkins, click New Item > Pipeline.
- Enter a name for the pipeline.
- Under Pipeline Definition, select Pipeline script from SCM.
 - Select Git as the SCM.
 - o Enter the GitHub repository URL (https://github.com/your-username/my□flask-app.git).
 - o Set the branch (typically master or main).
- Click Save.

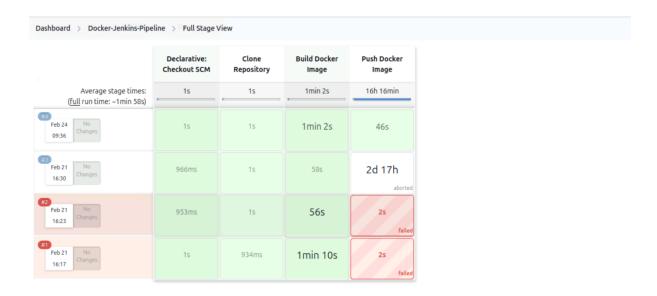




STEP 4: Click Build Now

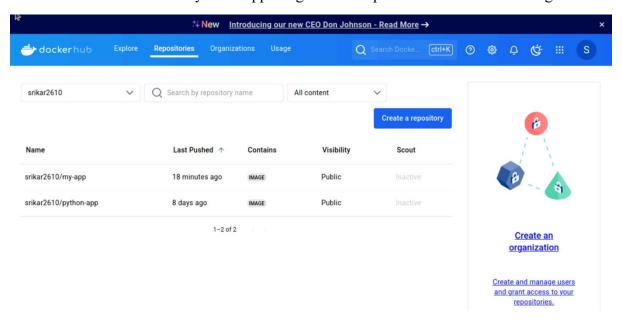
- Click Build Now in Jenkins to trigger the build.
- Jenkins will:
 - o Checkout the code from GitHub.
 - o Build the Docker image.
 - Push the image to Docker Hub





STEP 5: Verify Docker Image on Docker Hub

- After the build finishes, log into your Docker Hub account.
- You should see the my-flask-app image under Repositories with the latest tag.



2. DOCKERS AND NGINX

