## Automate docker built and push using Jenkinsfile

1. Set up simple flask app

```
Project structure:

my-flask-app

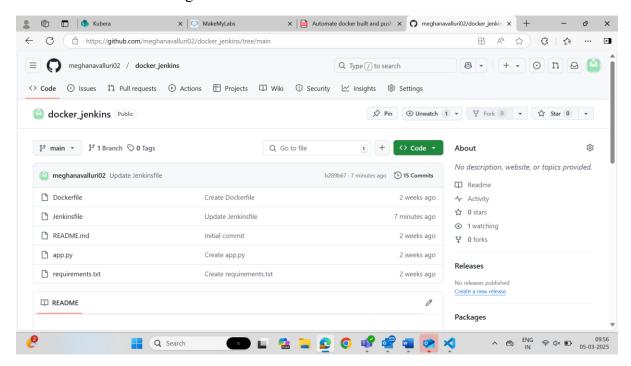
— app.py

— requirements.txt

— Dockerfile

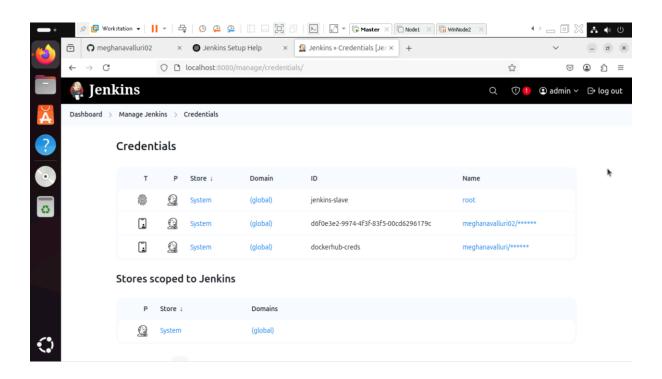
— Jenkinsfile
```

2. Push the code into the github:



- 3. Configure Docker Hub Credentials in Jenkins
  - Go to Jenkins > Manage Jenkins > Manage Credentials.
  - Add new credentials:
    - o Username: Your Docker Hub username.
    - o Password: Your Docker Hub password (or token).

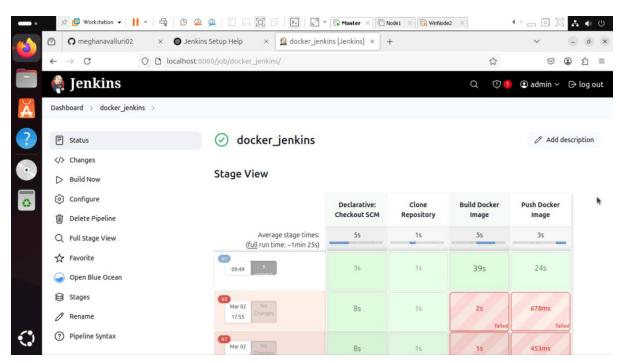
o ID: Name it something like dockerhub-creds (the same name used in the Jenkinsfile).



- 4. 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.
    - o Select Git as the SCM.
    - o Enter the GitHub repository URL (https://github.com/your-username/myflask-app.git).
    - o Set the branch (typically master or main).
  - Click Save.
- 5. 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.

## o Push the image to Docker Hub

6.



7.

