Rest of the content is already explained in the Readme.md file. Here, we are doing the Github Action setup as we are providing the docker username and password that is required in yml ile:

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line no, 42, we need docker username and password. That setup we will configure here.

Steps:

1. Go to your repo and go under security.

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1. Under security tab, click on action under “secrets and variables.”

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1. Click on “new repository secret.”

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1. Provide the same variable name defined in yml file:

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1. Add both username and password for docker hub:

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Once this is done, we need to create **“.github/workflows/maven.yml**” file.

**Working maven.yml file:**

name: project cicd flow

on:

push:

branches: [ feature/kubernetes-exercise-1 ]

pull\_request:

branches: [ feature/kubernetes-exercise-1 ]

jobs:

build:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v2

- name: Set up JDK 17

uses: actions/setup-java@v1

with:

java-version: '17'

distribution: 'adopt'

cache: maven

- name: Build with Maven

run: mvn clean install

- name: Test cases execution

run: mvn clean test

#if condition, if the branch is equal to main then create the docker image for it and push to docker hub

#bookmarker-api-jib:latest image name defined in docker push command below will pick from image

# name defined in pom. file in JIB plugin. If you want to user dockerFile then you should define

# file path but here we are using JIB so it's picking from pom.

- if: ${{ github.ref == 'refs/heads/feature/kubernetes-exercise-1' }}

name: Build and Publish Docker Image

run: |

echo "This job runs in custom branch"

./mvnw clean package jib:dockerBuild -DskipTests

docker login -u ${{ secrets.DOCKER\_USERNAME }} -p ${{ secrets.DOCKER\_PASSWORD }}

docker push ${{ secrets.DOCKER\_USERNAME }}/bookmarker-api-jib:latest

Make sure spring boot project folders like this:

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Earlier, I had folder like “Documents/spring-boot-projects/branch name” and due to that my Github action was not working.

The image name we defined online

no 37, picked from pom.xml file jib plugin:

Text, letter

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Timeline

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Once that is done, you are good to go….

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