Experiment 3

Maven Build using GitHub Actions

Aim

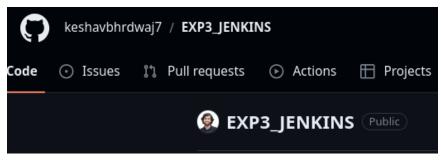
Set up a GitHub Actions workflow to automatically build a Maven project whenever changes are pushed to a GitHub repository.

Steps

- 1. Create a maven project
 - a. Create the project

b. Configure the pom.xml

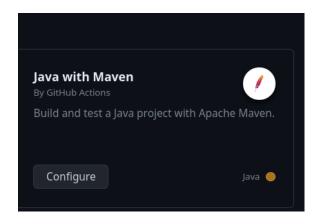
2. Create a Git Repository



- 3. Setup GitHub workflow for the project
 - a. On GitHub repository, Go to Actions tab



b. Select Java with Maven and click on Configure



c. Configure the maven.yml file & commit the changes

```
# separate terms of service, privacy policy, and support
# documentation.

name: Java CI with Maven

non:
push:
branches: [ "main" ]

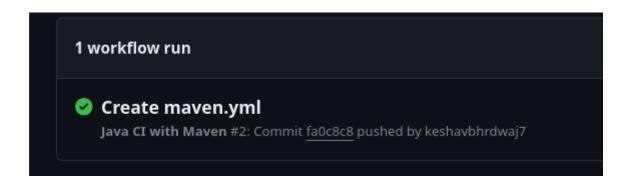
pull_request:
branches: [ "main" ]

jobs:
build:

runs-on: ubuntu-latest

steps:
```

d. An automatic build will be triggered



5. Pull the updated code on local machine

```
• lazypunk@pop-os:~/Desktop/maven/EXP3_JENKINS$ git pull
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 11 (delta 3), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (11/11), 2.62 KiB | 1.31 MiB/s, done.
From https://github.com/keshavbhrdwaj7/EXP3_JENKINS
    fcbedd3..fa0c8c8 master -> origin/master
Updating fcbedd3..fa0c8c8
```

6. Update the source code and push it on GitHub

```
lazypunk@pop-os:~/Desktop/maven/EXP3_JENKINS$ git push
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 721 bytes | 721.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object
To https://github.com/keshavbhrdwaj7/EXP3_JENKINS.git
```

7. Another automatic build will be triggered

