

Experiment 3

Maven Build using GitHub Actions

Aim

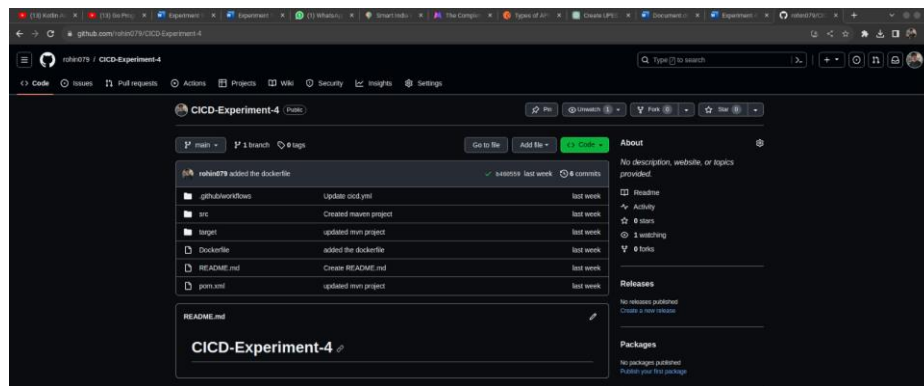
Set up a GitHub Actions workflow to automatically build a Maven project whenever changes are pushed to a GitHub repository.

Steps

1. Create a maven project

```
Downloaded From Central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1.0/maven-archetype-quickstart-1.0.pom
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
[INFO]
[INFO] Parameter: basedir, Value: /home/rohin/UPES/Sem 4/cicd/experiment 3
[INFO] Parameter: package, Value: DevOps
[INFO] Parameter: groupId, Value: DevOps
[INFO] Parameter: artifactId, Value: CICD-EXP3
[INFO] Parameter: packageName, Value: DevOps
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: /home/rohin/UPES/Sem 4/cicd/experiment 3/CICD-EXP3
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 02:58 min
[INFO] Finished at: 2023-09-19T09:02:58+05:30
[INFO]
rohin@victus:~/UPES/Sem 4/cicd/experiment 3$
```

2. Create a Git Repository

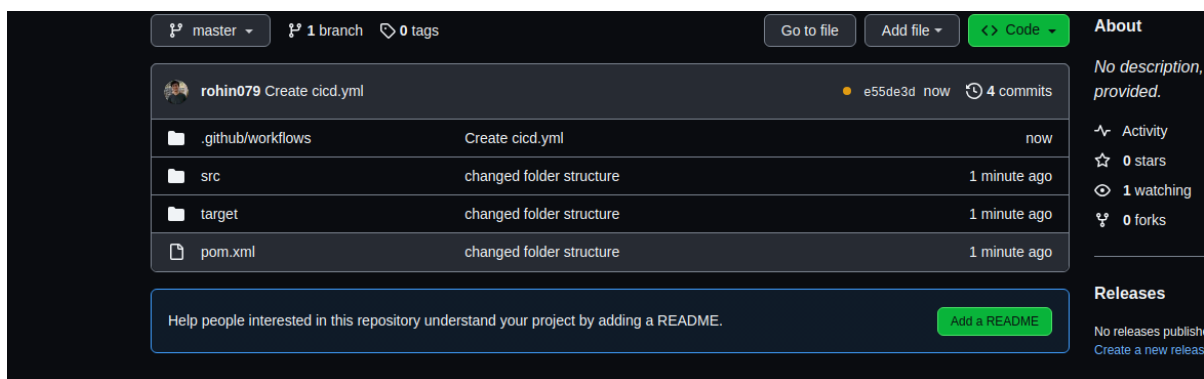
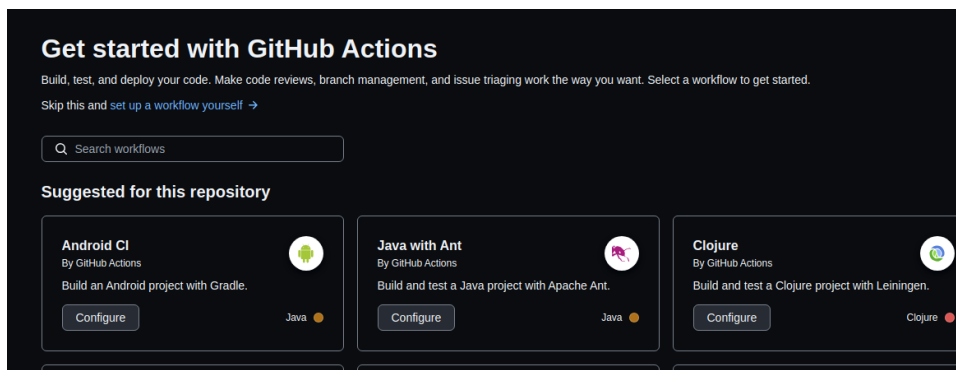


3. Commit and Push the changes on GitHub

```
rohin@victus:~/UPES/Sem 4/cicd/experiment 3$ git init CICD-Experiment-3
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/rohin/UPES/Sem 4/cicd/experiment 3/CICD-Experiment-3/.git/
rohin@victus:~/UPES/Sem 4/cicd/experiment 3$ git add .
fatal: not a git repository (or any of the parent directories): .git
rohin@victus:~/UPES/Sem 4/cicd/experiment 3$ cd CICD-Experiment-3/
rohin@victus:~/UPES/Sem 4/cicd/experiment 3/CICD-Experiment-3$ git add .
rohin@victus:~/UPES/Sem 4/cicd/experiment 3/CICD-Experiment-3$

rohin@victus:~/UPES/Sem 4/cicd/experiment 3/CICD-Experiment-3$ git commit -m "added maven project"
[master (root-commit) b131d4c] added maven project
 4 files changed, 69 insertions(+)
 create mode 100644 CICD-EXP3/pom.xml
 create mode 100644 CICD-EXP3/src/main/java/DevOps/App.class
 create mode 100644 CICD-EXP3/src/main/java/DevOps/App.java
 create mode 100644 CICD-EXP3/src/test/java/DevOps/AppTest.java
```

4. Setup GitHub workflow for the project



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

```

rohin@victus:~/UPES/Sem 4/cicd/experiment 3/CICD-Experiment-3$ git push origin master
Username for 'https://github.com': rohin079
Password for 'https://rohin079@github.com':
Enumerating objects: 24, done.
Counting objects: 100% (24/24), done.
Delta compression using up to 12 threads
Compressing objects: 100% (13/13), done.
Writing objects: 100% (24/24), 2.89 KiB | 2.89 MiB/s, done.
Total 24 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/rohin079/CICD-Experiment-3.git
 * [new branch]      master -> master
rohin@victus:~/UPES/Sem 4/cicd/experiment 3/CICD-Experiment-3$

```

5. Pull the updated code on local machine

6. An automatic build will be triggered

Help us improve GitHub Actions
 Tell us how to make GitHub Actions work better for you with three quick questions.

Give feedback

2 workflow runs

Event ▾ Status ▾ Branch ▾

Merge branch 'master' of https://github.com/rohin079/CICD-Experiment-3

Java CI with Maven #2: Commit 3e3c050 pushed by rohin079

master

📅 now

🔄 In progress

← Java CI with Maven

Merge branch 'master' of https://github.com/rohin079/CICD-Experiment-3 #2

Summary

Jobs

build

Run details

Usage

Workflow file

Triggered via push 1 minute ago
 rohin079 pushed → 3e3c050 master

Status
Success

Total duration
27s

Artifacts
 -

cicd.yml

on: push

build

18s