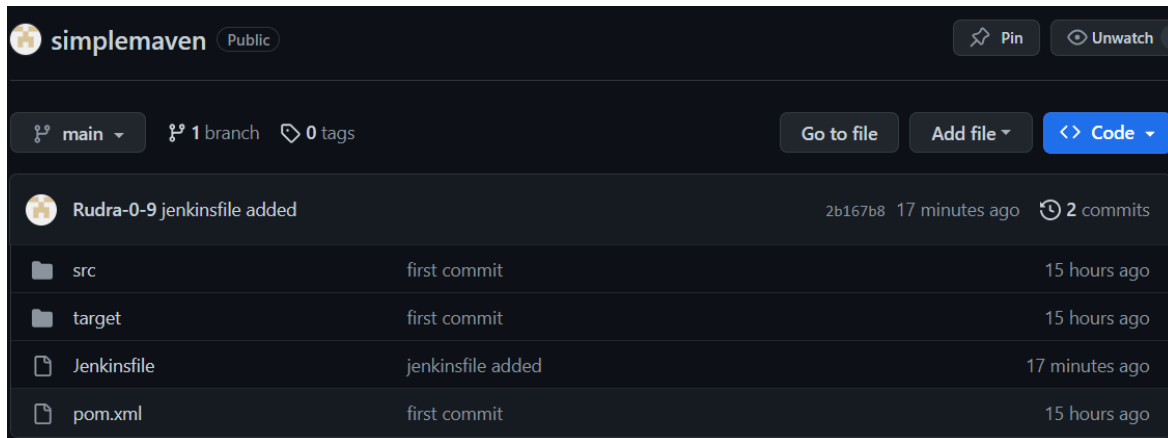


Experiment 3

Maven Build Using GitHub Actions

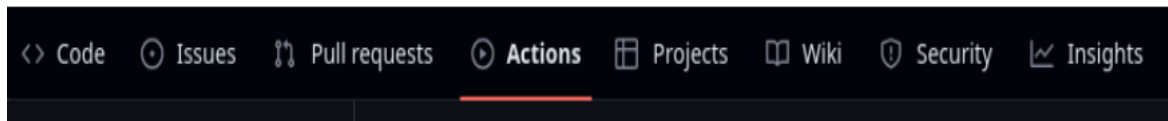
Objective: Setup a GitHub Actions workflow to automatically build a Maven Project whenever changes are pushed to a GitHub repository.

1. Create a Maven Project and Push the Project to GitHub Repository.

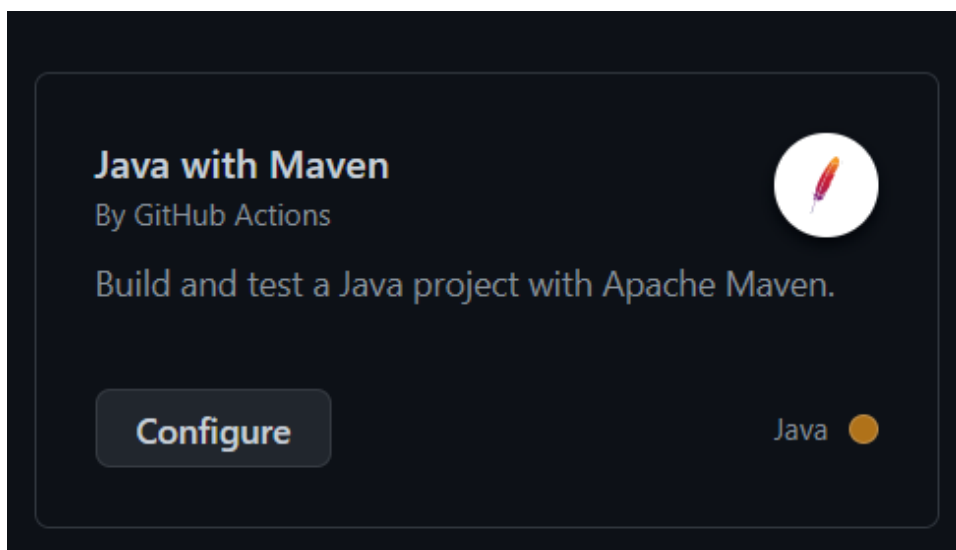


2. Set up GitHub Actions:

(a) Click on Actions tab



(b) Click on Java with Maven




(c) Configure maven.yml file and commit changes.

```
simplemaven / .github / workflows / maven.yml in main

Edit Preview Code 55% faster with GitHub Copilot Spaces 2 No wrap

1 # This workflow will build a Java project with Maven, and cache/restore any dependencies to improve the workflow execution time
2 # For more information see: https://docs.github.com/en/actions/automating-builds-and-tests/building-and-testing-java-with-maven
3
4 # This workflow uses actions that are not certified by GitHub.
5 # They are provided by a third-party and are governed by
6 # separate terms of service, privacy policy, and support
7 # documentation.
8
9 name: Java CI with Maven
10
11 on:
12   push:
13     branches: [ "main" ]
14   pull_request:
15     branches: [ "main" ]
16
17 jobs:
18   build:
19
20     runs-on: ubuntu-latest
21
22     steps:
23     - uses: actions/checkout@v3
24     - name: Set up JDK 17
25       uses: actions/setup-java@v3
```

(d) An initial automatic Build is Triggered.

 **Create maven.yml**



main

Java CI with Maven #5: Commit [d2a67c9](#) pushed by Rudra-0-9

yesterday
23s

...

(e) Pull the Code on Local Machine and push recent changes. This will Trigger new Automated Builds.

All workflows				
Showing runs from all workflows				
1 workflow run				
	Event ▾	Status ▾	Branch ▾	Actor ▾
 changes				
Java CI with Maven #6: Commit 74e67b7 pushed by Rudra-0-9				
	main	now 16s		...
 Create maven.yml				
Java CI with Maven #5: Commit d2a67c9 pushed by Rudra-0-9				
	main	3 minutes ago 23s		...