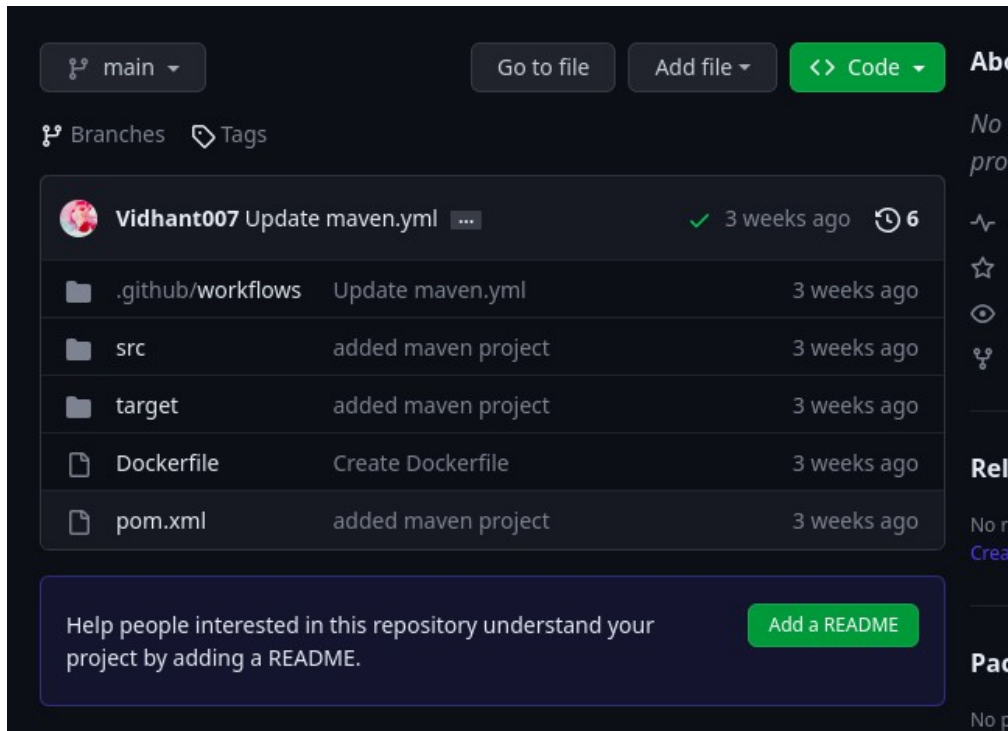# Experiment 3

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.
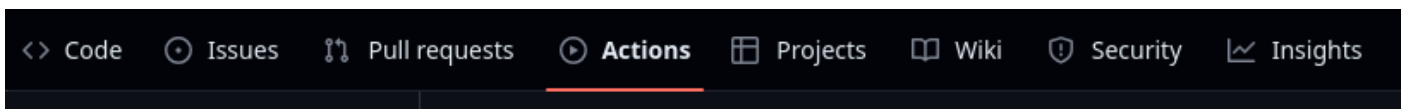
Steps :

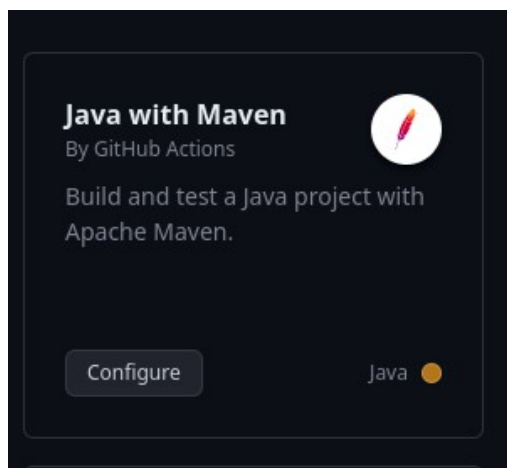1. Create a Maven Project and Push the Project to Github Repository.

2. Set up Github Actions :

    (a) Click on Actions tab

    (b) Click on Java with Maven

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

```yaml
name: Java CI with Maven

on:
  push:
    branches: [ "main" ]
  pull_request:
    branches: [ "main" ]

jobs:
  build:

    runs-on: ubuntu-latest

    steps:
    - uses: actions/checkout@v3
    - name: Set up JDK 17
      uses: actions/setup-java@v3
      with:
        java-version: '17'
        distribution: 'temurin'
        cache: maven
    - name: Build with Maven
      run: mvn -B package --file pom.xml
```
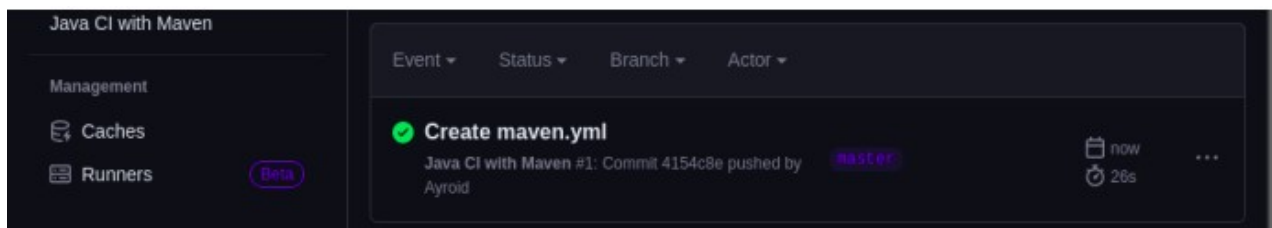
(d) An intial automatic Build is Triggered.

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