Maven Reusable Workflow with Caching

Steps to be followed:

- 1. Log in to GitHub.com.
- 2. Create a new workflow file to implement reusability and caching mechanism.

Step 1: Log in to GitHub.com

- 1.1 Sign in to the GitHub portal at https://github.com
- 1.2 Navigate to your repository main page where we are going to create a workflow file.
- 1.3 In case the repository is not available fork below mentioned repository in your GitHub account.

https://github.com/Simplilearn-Edu/MavenBuild

Step 2: Create a new workflow file to implement the reusability and caching mechanism.

- 2.1 Once you are on GitHub's main repository page, we can get started with creating a new Workflow file.
- 2.2 Create a **.github/workflows** directory in your repository in case the directory does not exist.
- 2.3 In the workflow directory, create a new workflow file with the name maven-cache.yml.
- 2.4 Add below workflow content in the above created file.

on:
workflow_dispatch:
workflow_call:

jobs:
build:
runs-on: ubuntu-latest

name: Java CI with Maven

steps:

- uses: actions/checkout@v3

- name: Set up JDK 11

uses: actions/setup-java@v3

with:

java-version: '11'

distribution: 'temurin'

cache: maven

- name: Cache Maven Dependencies

uses: actions/cache@v3

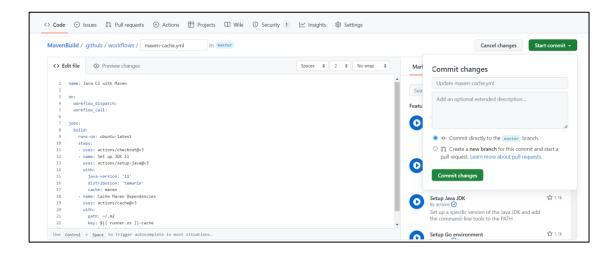
with:

path: ~/.m2

key: \${{ runner.os }}-cache
- name: Build with Mayen

run: mvn -B package --file pom.xml

2.5 Once the file is created, click on **Commit new file** to save the workflow file in your code repository.



2.6 Next, we have to create a **caller.yml** which is going to invoke Reusable workflow as per the below content:

name: Reusable Workflow Caller

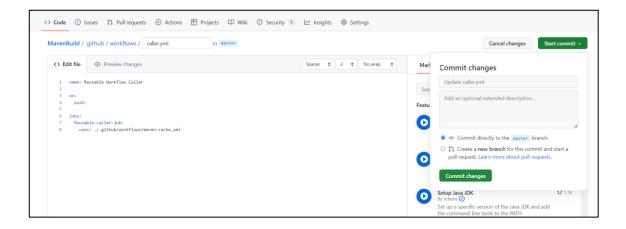
on:

push:

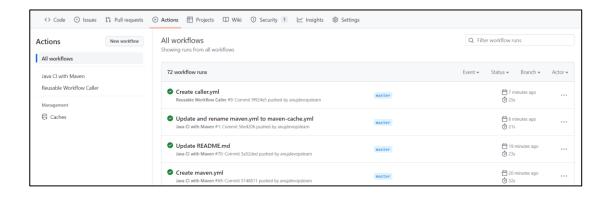
jobs:

Reusable-caller-job:

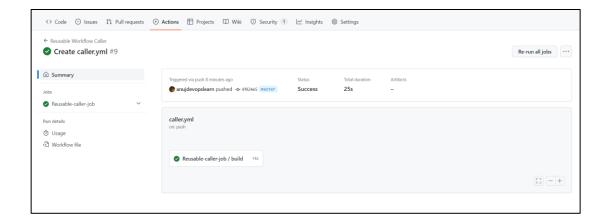
uses: ./.github/workflows/maven-cache.yml



- 2.7 Next in order to test our event, we can go to code from your repository and start performing some code changes.
- 2.8 This will invoke workflow automatically, navigate to the **Actions** tab on your repository to access the workflow execution page as below:



2.9 From the left sidebar you can select the workflow to which you want to access execution logs.



- 2.10 Select the latest workflow execution run to access execution logs for the jobs configured in a workflow.
- 2.11 Click on **Basic-Workflow** to access jobs logs, you can also expand different steps execution logs to get detailed information regarding jobs executions.

