

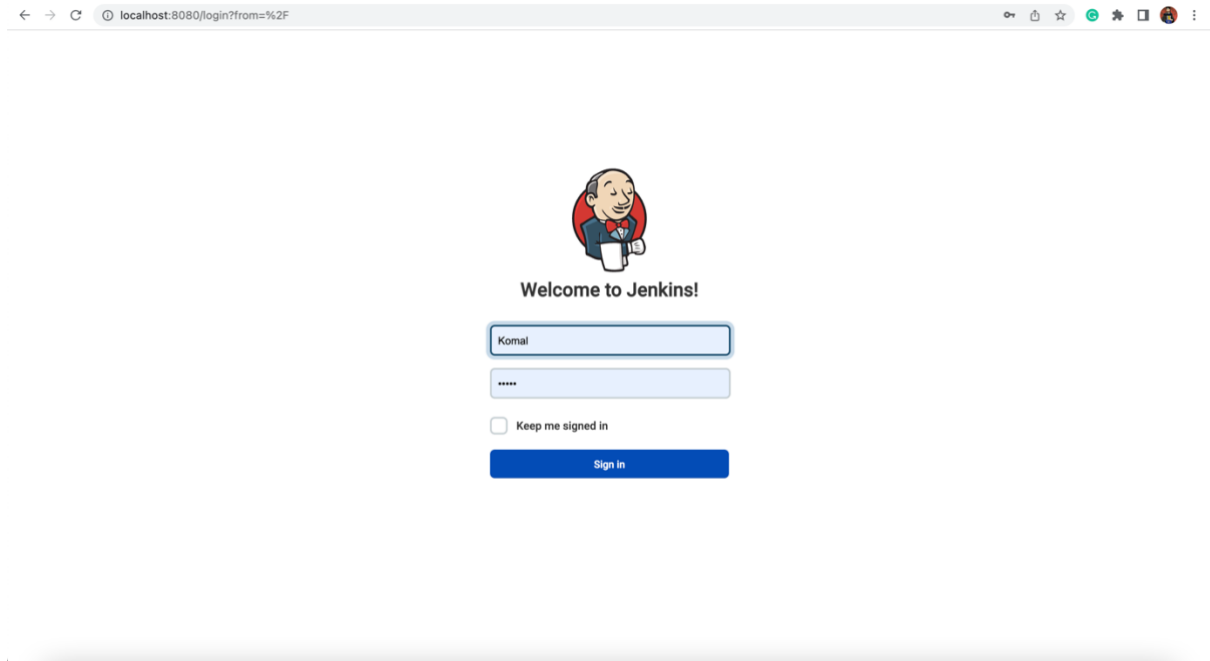
Software Quality Assurance - CSSE 351

Assignment 3

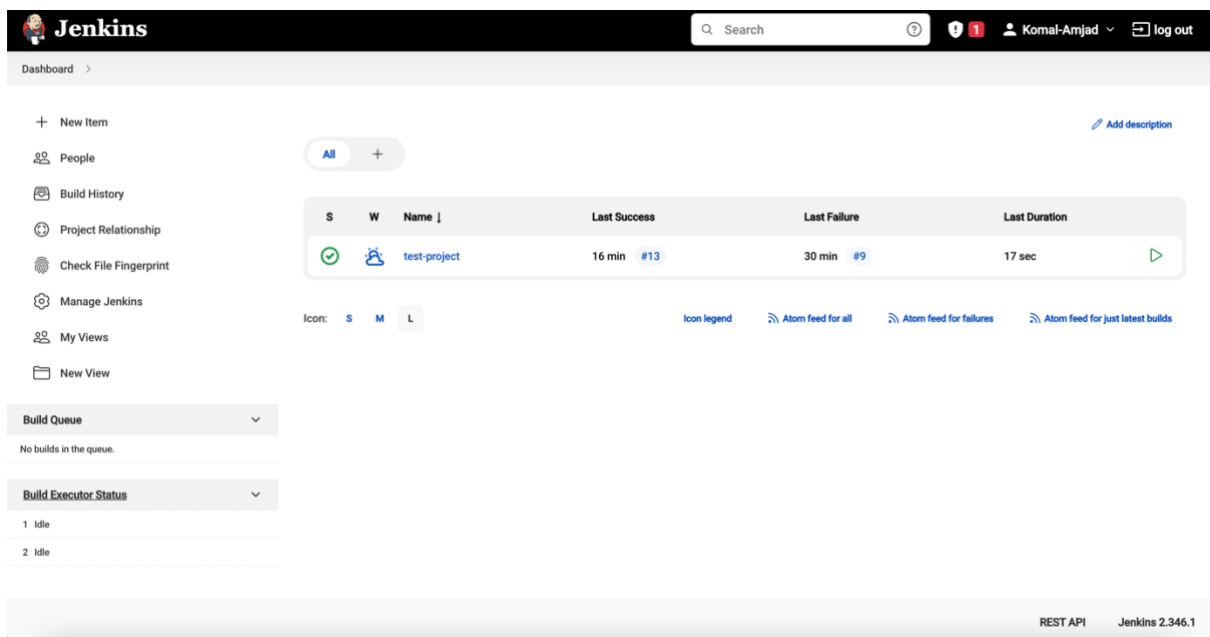
SUBMITTED BY:

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Jenkins Installation



CI/CD pipeline Creation



Configurations

- Source Code Configuration

The screenshot shows the 'Source Code Management' configuration page in Jenkins. The 'General' tab is selected. Under 'Post-build Actions', the 'Source Code Management' section is expanded. The 'None' radio button is unselected, and the 'Git' radio button is selected. Below this, the 'Repositories' section is visible. A repository is configured with the URL 'https://github.com/jenkins-docs/simple-java-maven-app.git'. The 'Credentials' dropdown is set to '- none -'. There are buttons for 'Add', 'Advanced...', and 'Add Repository'. At the bottom, there is a 'Branches to build' section.

- Maven Configuration

The screenshot shows the 'Post Steps' configuration page in Jenkins. The 'General' tab is selected. Under 'Post-build Actions', the 'Post Steps' section is expanded. The 'Run only if build succeeds' radio button is selected. Below this, the 'Invoke top-level Maven targets' section is visible. The 'Maven Version' dropdown is set to 'apache-maven-3.8.6'. The 'Goals' dropdown is set to 'clean install'. There is an 'Advanced...' button. At the bottom, there are 'Save' and 'Apply' buttons.

Successful run of pipeline

- Git project used
 - <https://github.com/jenkins-docs/simple-java-maven-app>

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← → ↺ ⓘ localhost:8080/job/test-project/13/consoleText
[INFO] --- maven-install-plugin:2.4:install (default-install) @ my-app ---
[INFO] Installing /Users/Komal-Anjad/.jenkins/workspace/test-project/target/my-app-1.0-SNAPSHOT.jar to /Users/Komal-Anjad/.m2/repository/com/mycompany/app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.jar
[INFO] Installing /Users/Komal-Anjad/.jenkins/workspace/test-project/pom.xml to /Users/Komal-Anjad/.m2/repository/com/mycompany/app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.625 s
[INFO] Finished at: 2022-06-23T23:00:46+05:00
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /Users/Komal-Anjad/.jenkins/workspace/test-project/pom.xml to com.mycompany.app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.pom
[JENKINS] Archiving /Users/Komal-Anjad/.jenkins/workspace/test-project/target/my-app-1.0-SNAPSHOT.jar to com.mycompany.app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.jar
[test-project] $ /Users/Komal-Anjad/.jenkins/tools/hudson.tasks.Maven_MavenInstallation/apache-maven-3.8.6/bin/mvn clean install
channel stopped
[INFO] Scanning for projects...
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ my-app ---
[INFO] Deleting /Users/Komal-Anjad/.jenkins/workspace/test-project/target
[INFO]
[INFO] --- maven-enforcer-plugin:3.0.0-M3:enforce (enforce-maven) @ my-app ---
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /Users/Komal-Anjad/.jenkins/workspace/test-project/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ my-app ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to /Users/Komal-Anjad/.jenkins/workspace/test-project/target/classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /Users/Komal-Anjad/.jenkins/workspace/test-project/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ my-app ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to /Users/Komal-Anjad/.jenkins/workspace/test-project/target/test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ my-app ---
[INFO] Surefire report directory: /Users/Komal-Anjad/.jenkins/workspace/test-project/target/surefire-reports
[INFO] -----
T E S T S
-----
Running com.mycompany.app.AppTest
Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.096 sec
Results :
Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ my-app ---
[INFO] Building jar: /Users/Komal-Anjad/.jenkins/workspace/test-project/target/my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ my-app ---
[INFO] Installing /Users/Komal-Anjad/.jenkins/workspace/test-project/target/my-app-1.0-SNAPSHOT.jar to /Users/Komal-Anjad/.m2/repository/com/mycompany/app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.jar
[INFO] Installing /Users/Komal-Anjad/.jenkins/workspace/test-project/pom.xml to /Users/Komal-Anjad/.m2/repository/com/mycompany/app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.989 s
[INFO] Finished at: 2022-06-23T23:00:53+05:00
[INFO] -----
Finished: SUCCESS
```