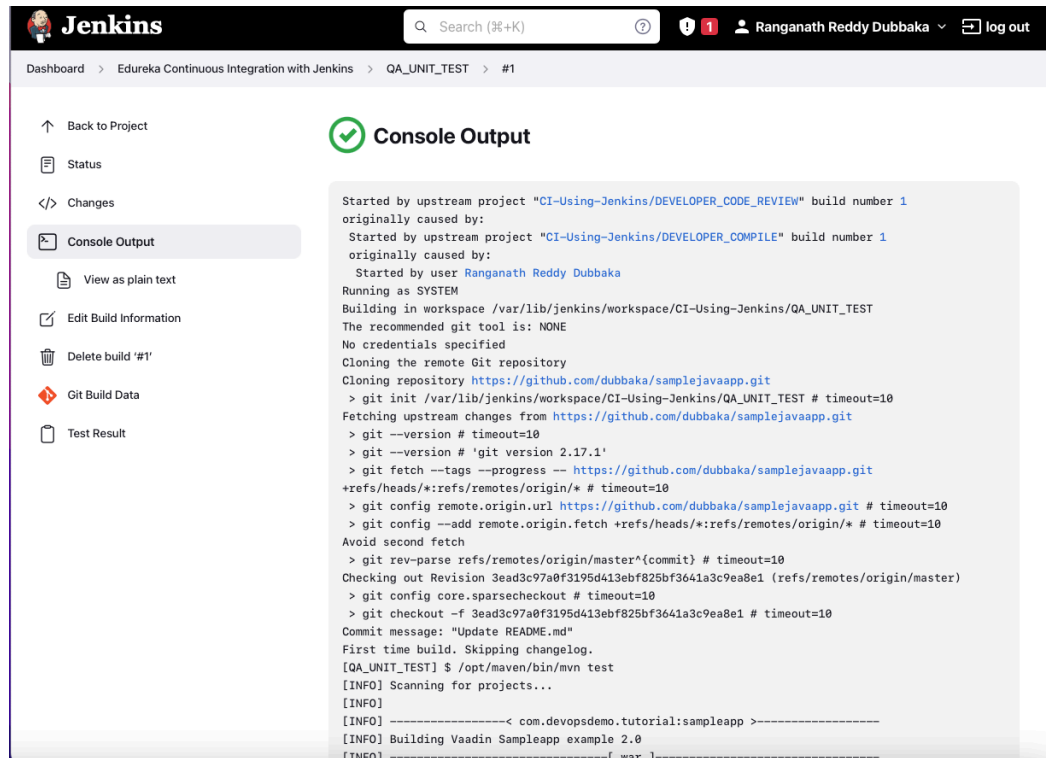


Edureka - Assignments

Continuous Integration Using Jenkins

As per assignment attached all screenshots below.

1. Take a screenshot of the console output showing a successful build of unit testing



The screenshot shows the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search bar, and the user name 'Ranganath Reddy Dubbaka' with a 'log out' button. The breadcrumb trail is 'Dashboard > Edureka Continuous Integration with Jenkins > QA_UNIT_TEST > #1'. The left sidebar contains links for 'Back to Project', 'Status', 'Changes', 'Console Output' (selected), 'View as plain text', 'Edit Build Information', 'Delete build '#1'', 'Git Build Data', and 'Test Result'. The main content area is titled 'Console Output' with a green checkmark icon. The console log shows the following steps:

```
Started by upstream project "CI-Using-Jenkins/DEVELOPER_CODE_REVIEW" build number 1
originally caused by:
Started by upstream project "CI-Using-Jenkins/DEVELOPER_COMPILE" build number 1
originally caused by:
  Started by user Ranganath Reddy Dubbaka
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/CI-Using-Jenkins/QA_UNIT_TEST
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/dubbaka/samplejavaapp.git
> git init /var/lib/jenkins/workspace/CI-Using-Jenkins/QA_UNIT_TEST # timeout=10
Fetching upstream changes from https://github.com/dubbaka/samplejavaapp.git
> git --version # timeout=10
> git --version # 'git version 2.17.1'
> git fetch --tags --progress -- https://github.com/dubbaka/samplejavaapp.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/dubbaka/samplejavaapp.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 3ead3c97a0f3195d413ebf825bf3641a3c9ea8e1 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 3ead3c97a0f3195d413ebf825bf3641a3c9ea8e1 # timeout=10
Commit message: "Update README.md"
First time build. Skipping changelog.
[QA_UNIT_TEST] $ /opt/maven/bin/mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.devopsdemo.tutorial:sampleapp >-----
[INFO] Building Vaadin Sampleapp example 2.0
[INFO] -----[ war ]-----
```

Dashboard > Edureka Continuous Integration with Jenkins > QA_UNIT_TEST > #1

```
Cause:at com.devopsdemo.utilities.ExceptionThrower.getCounter(ExceptionThrower.java:13)
Cause:at com.devopsdemo.utilities.TestLogger.testGetErrorMessage3(TestLogger.java:45)
[pool-1-thread-6] INFO com.devopsdemo.utilities.TestLogger - java.lang.ArithmeticException: / by
zero
Cause:at com.devopsdemo.utilities.TestLogger.testGetErrorMessage2(TestLogger.java:30)
Cause:at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
[pool-1-thread-9] ERROR com.devopsdemo.utilities.ExceptionThrower - java.lang.Exception: DEAR
Cause:at com.devopsdemo.utilities.ExceptionThrower.doYYY(ExceptionThrower.java:35)
Cause:at com.devopsdemo.utilities.ExceptionThrower.doXXX(ExceptionThrower.java:23)
[pool-1-thread-9] INFO com.devopsdemo.utilities.TestLogger - java.lang.Exception: TEST MESSAGE
Cause:at com.devopsdemo.utilities.ExceptionThrower.doCheck(ExceptionThrower.java:43)
Cause:at com.devopsdemo.utilities.TestLogger.testGetErrorMessage5(TestLogger.java:75)
**** java.lang.Exception: TEST MESSAGE
Cause:at com.devopsdemo.utilities.ExceptionThrower.doCheck(ExceptionThrower.java:43)
Cause:at com.devopsdemo.utilities.TestLogger.testGetErrorMessage5(TestLogger.java:75)
Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.068 sec - in
com.devopsdemo.utilities.TestLogger
Running com.devopsdemo.utilities.TestGenericComparator
Tests run: 14, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.042 sec - in
com.devopsdemo.utilities.TestGenericComparator

Results :

Tests run: 23, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.495 s
[INFO] Finished at: 2022-10-30T11:15:39Z
[INFO] -----
Recording test results
[Checks API] No suitable checks publisher found.
Triggering a new build of Edureka Continuous Integration with Jenkins » QA_METRICS_CHECK
Finished: SUCCESS
```

REST API Jenkins 2.361.2

2. Take a screenshot of the metrics from the dashboard of the project.

Jenkins

Search (⌘+K)

1 Ranganath Reddy Dubbaka log out

Dashboard > Edureka Continuous Integration with Jenkins > QA_METRICS_CHECK >

Up

Status

Changes

Workspace

Build Now

Configure

Delete Project

Move

Rename

Coverage Report

Build History trend

Filter builds...

#1 30 Oct., 2022, 11:15 am

Atom feed for all Atom feed for failures

Project QA_METRICS_CHECK

Full project name: CI-Using-Jenkins/QA_METRICS_CHECK
QA_METRICS_CHECK

Edit description

Disable Project

Coverage Report

Upstream Projects

✓ Edureka Continuous Integration with Jenkins » QA_UNIT_TEST

Downstream Projects

✓ Edureka Continuous Integration with Jenkins » QA_PACKAGE

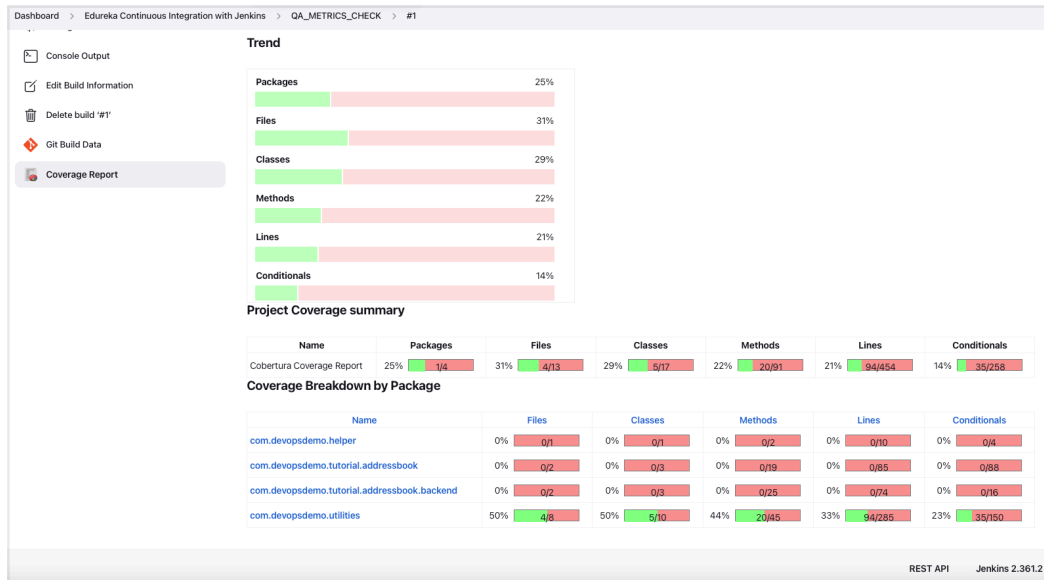
Permalinks

- Last build (#1), 3 min 51 sec ago
- Last stable build (#1), 3 min 51 sec ago
- Last successful build (#1), 3 min 51 sec ago
- Last completed build (#1), 3 min 51 sec ago

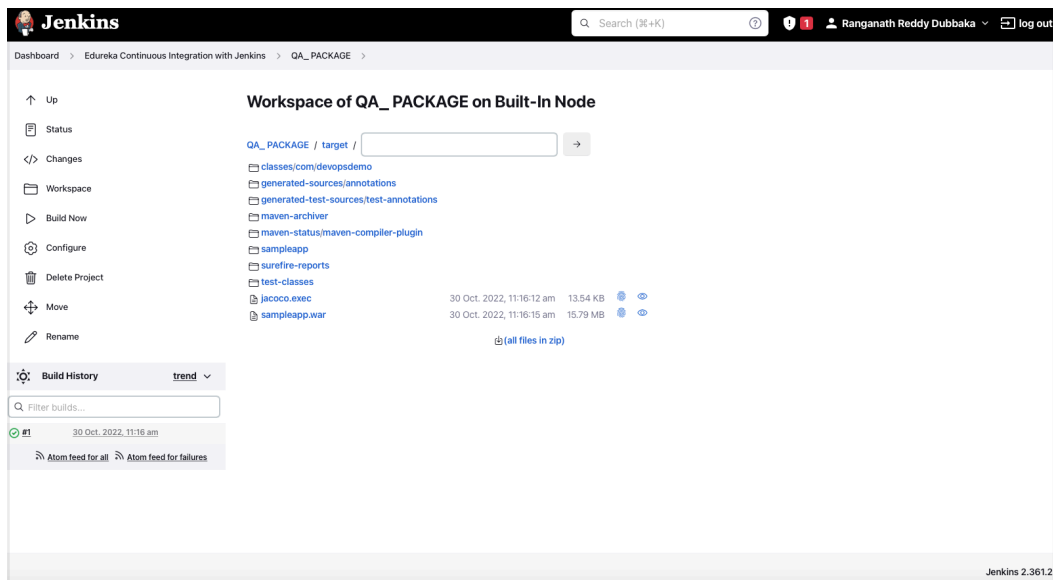
Code Coverage

Packages	25%
Files	31%
Classes	29%
Methods	22%
Lines	21%
Conditionals	14%

REST API Jenkins 2.361.2



3. Take a screenshot of the target folder created in the workspace.



4. Take a screenshot of the pipeline dashboard showing the status of the projects

Jenkins Search (⌘+K) 1 Ranganath Reddy Dubbaka log out

Dashboard > Edureka Continuous Integration with Jenkins > SAMPLE_COMPILE_VIEW >

Edureka Continuous Integration with Jenkins

Folder name: CI-Using-Jenkins
SAMPLE_COMPILE_VIEW [Edit description](#)

Build Pipeline

SAMPLE_COMPILE_VIEW

Run History Configure Add Step Delete Manage

Pipeline #1

- #1 DEVELOPER_COMPILE: Oct 30, 2022 11:15:04 AM, 5.9 sec
- #1 DEVELOPER_CODE_REVIEW: Oct 30, 2022 11:15:17 AM, 8 sec
- #1 QA_UNIT_TEST: Oct 30, 2022 11:15:32 AM, 7.6 sec
- #1 QA_METRICS_CHECK: Oct 30, 2022 11:15:47 AM, 10 sec
- #1 QA_PACKAGE: Oct 30, 2022 11:16:07 AM, 8.9 sec

REST API Jenkins 2.361.2

Jenkins Search (⌘+K) 1 Ranganath Reddy Dubbaka log out

Dashboard > Edureka Continuous Integration with Jenkins >

Edureka Continuous Integration with Jenkins

Folder name: CI-Using-Jenkins
Edureka Continuous Integration Using Jenkins [Add description](#)

STATUS SAMPLE_COMPILE_VIEW +

S	W	Name ↓	Last Success	Last Failure	Last Duration	Coverage	# Issues
✓	⚙️	DEVELOPER_CODE_REVIEW	6 min 28 sec #1	N/A	8 sec	▶️	n/a 11
✓	⚙️	DEVELOPER_COMPILE	6 min 41 sec #1	N/A	5.9 sec	▶️	n/a -
✓	⚙️	QA_PACKAGE	5 min 38 sec #1	N/A	8.9 sec	▶️	n/a -
✓	🔍	QA_METRICS_CHECK	5 min 58 sec #1	N/A	10 sec	▶️	n/a -
✓	⚙️	QA_UNIT_TEST	6 min 13 sec #1	N/A	7.6 sec	▶️	n/a -

Icon: S M L Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

REST API Jenkins 2.361.2

5. The pipelines can also be extended to running web tests and load tests. Explain how you would do the same using Jenkins?

Explanation on WEB and LOAD test:

In the current market there are lot of tools to do Web test (example:Selenium) and Load Test (example:Taurus), we can integrate these tools into Jenkins Pipeline which can be done after application deployment.