

In this assignment I followed the tutorial given as it was, firstly I installed Jenkins and Tomcat Server, then Configured Jenkins with Git for version control management and Gradle to build, clean, test, and for creating jar of the project through Jenkins Jobs for each type.

After configuring fully configuring Jenkins, I created a gradle project using eclipse and written test cases for statement coverage of the project. After this pushed the project to remote repository on github using git. Link to project on github repository is given below:


<https://github.com/hamzaMAlvi/i141622>


After above steps, I created Job chain (Invoke gradle, clean project, build project, test project, create jar) on Jenkins, which will be triggered after a commit. The job chain is shown in figures attached below.

My ViewsAlli141622GradleInvoke

ard

Project i141622GradleInvoke

Workspace

Recent Changes

Downstream Projects


trend


i141622GradleClean

Permalinks

ViewsAlli141622GradleClean

Project i141622GradleClean

Workspace

Recent Changes

Upstream Projects

i141622GradleInvoke

Downstream Projects

i141622GradleBuild

Permalinks

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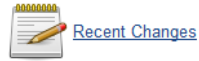
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
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Project i141622GradleBuild



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Upstream Projects

[i141622GradleClean](#)

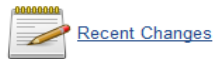
Downstream Projects


[i141622GradleTest](#) ▾

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Project i141622GradleTest



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10:54 PM

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Upstream Projects

[i141622GradleBuild](#)

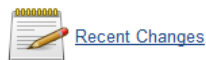
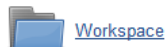
Downstream Projects


[i141622GradleInstall](#) ▾

Permalinks

My Views > All > i141622GradleInstall >

Project i141622GradleInstall



[trend](#) 

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Upstream Projects

[i141622GradleTest](#)

Permalinks

Failed Release Case:

Screen shots shown failed test case and failed build.

```
57 tests completed, 1 failed
:test FAILED

FAILURE: Build failed with an exception.

* What went wrong:
Execution failed for task ':test'.
> There were failing tests. See the report at: file:///C:/Users/Hamza/.jenkins/workspace/i141622GradleBuild/build/reports/tests/index.html

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to get more log output.

BUILD FAILED

Total time: 6.381 secs
Build step 'Invoke Gradle script' changed build result to FAILURE
Build step 'Invoke Gradle script' marked build as failure
Finished: FAILURE
```






[Export as plain XML \(Recurse in subfolders\)](#)

| | Build | Time Since ↑ |
|---|---|--------------|
|  | i141622GradleBuild #9 | 1 min 37 sec |
|  | i141622GradleClean #16 | 2 min 12 sec |
|  | i141622GradleInvoke #18 | 2 min 35 sec |

Passed Release Case:

Screenshots showing passed test cases and build of whole job chain.

[Export as plain XML](#) ([Recurse in subfolders](#))

| | Build | Time Since ↑ |
|---|---|--------------|
|  | i141622GradleInstall #5 | 45 sec |
|  | i141622GradleTest #6 | 1 min 25 sec |
|  | i141622GradleBuild #10 | 2 min 0 sec |
|  | i141622GradleClean #17 | 2 min 30 sec |
|  | i141622GradleInvoke #19 | 2 min 55 sec |

```
st.assignment.LinkedListTest > testSpliterator STARTED
st.assignment.LinkedListTest > testSpliterator PASSED
st.assignment.LinkedListTest > testRemoveInt STARTED
st.assignment.LinkedListTest > testRemoveInt PASSED
st.assignment.LinkedListTest > testSpliteratorEstimate STARTED
st.assignment.LinkedListTest > testSpliteratorEstimate PASSED
:check
:build

BUILD SUCCESSFUL

Total time: 7.014 secs
Build step 'Invoke Gradle script' changed build result to SUCCESS
Triggering a new build of i141622GradleTest
Finished: SUCCESS
```