Experiment 2

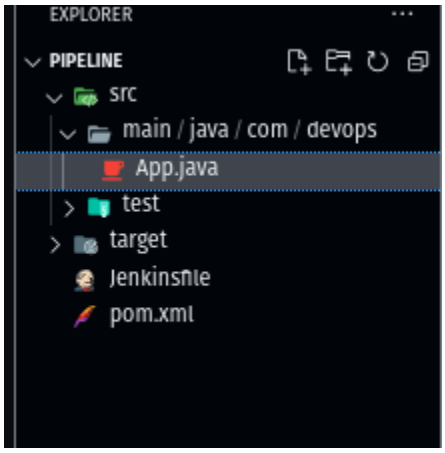
Creating a Jenkins Pipeline
with a Jenkinsfile

Aim

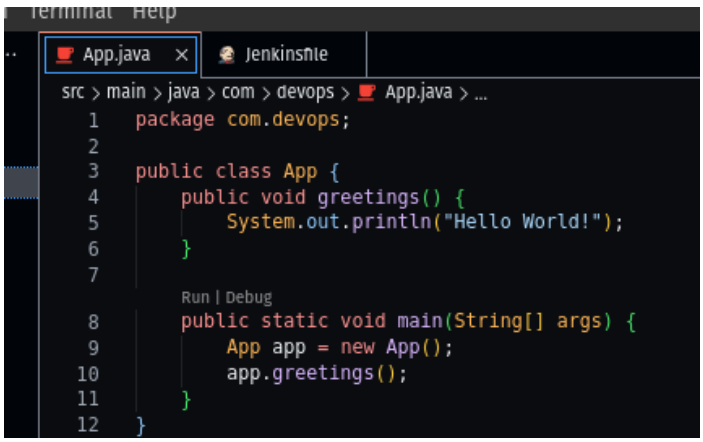
Create a Jenkins pipeline using a Jenkinsfile that builds a simple project, runs tests, and deploys the project to a designated environment

1. Create a maven project

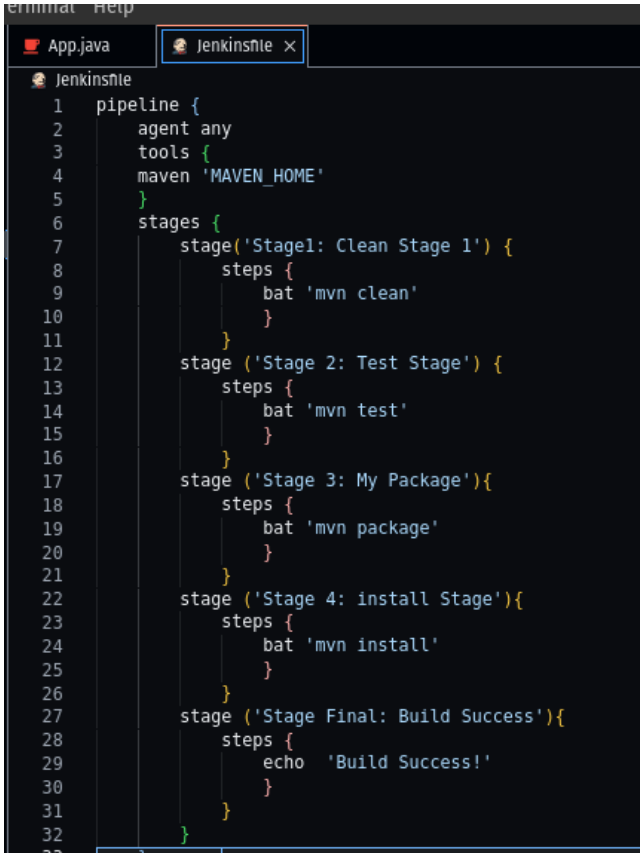
a. Create the project



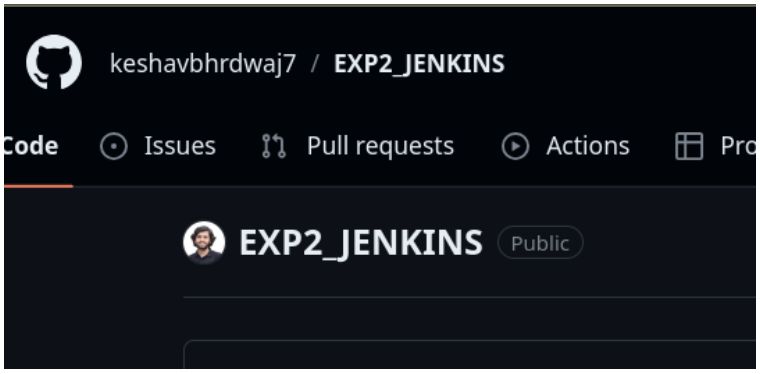
b. Create a package DevOps inside src/main/java/ and add App.java file



c. Create a Jenkinsfile and write the steps to be executed in it

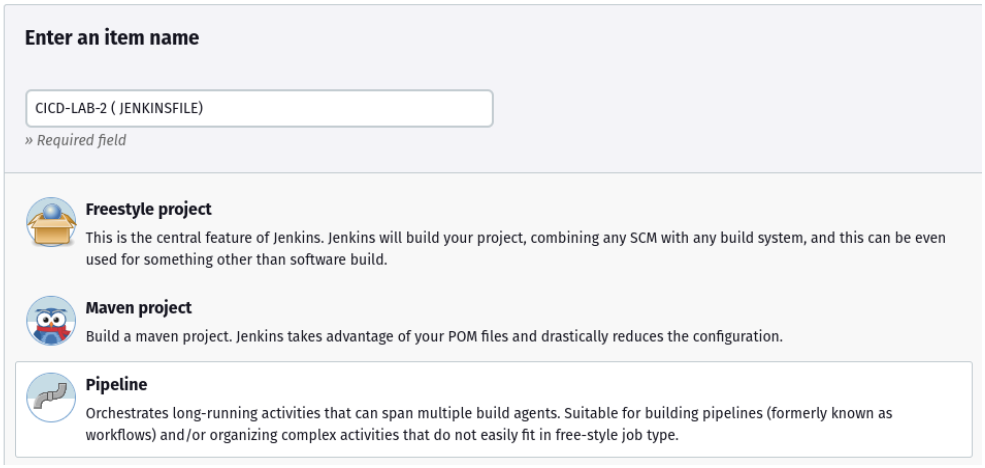


2. Create a GitHub Repository.



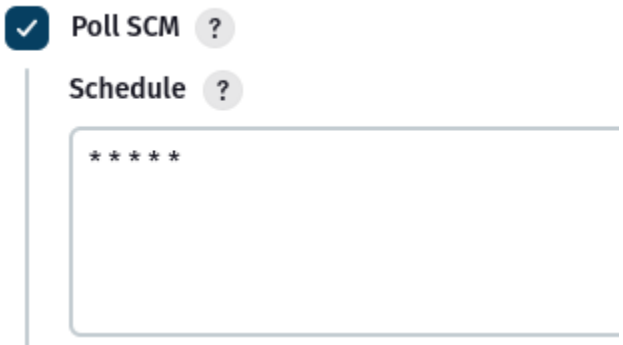
3. Create a Jenkins Pipeline

a. Create a pipeline

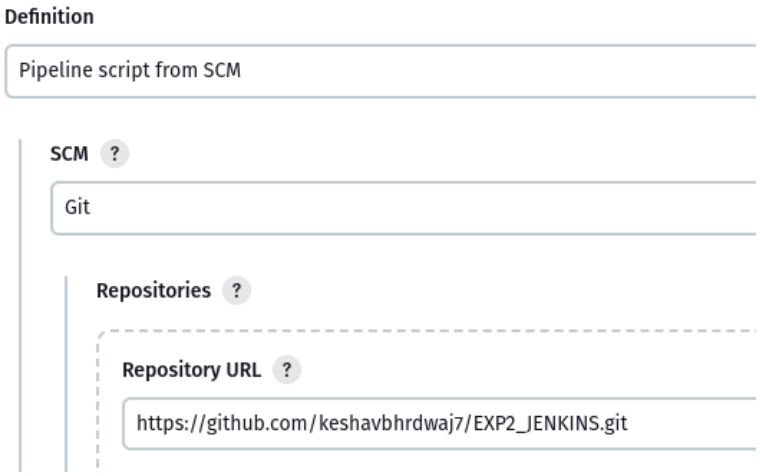


b. Add the project url

c. Configure the build trigger to poll scm and set it to perform build every minute



d. Specify the path to Jenkinsfile in the project



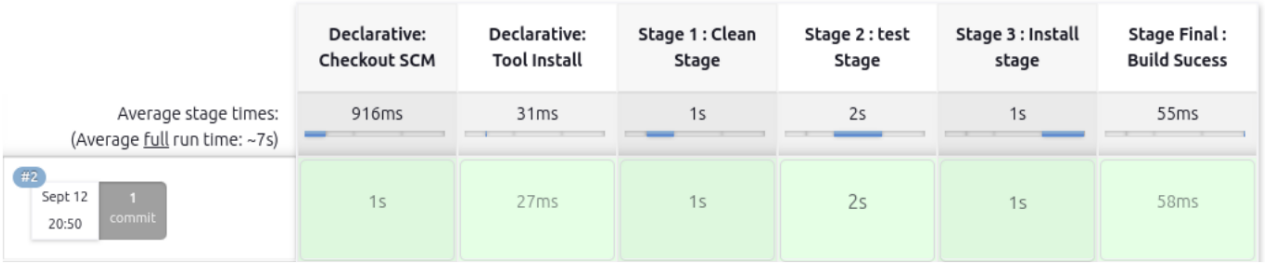
e. Save the pipeline

4. Commit and push the changes of the project on GitHub

```
lazypunk@pop-os:~/Desktop/EXP2_JENKINS$ git add .
lazypunk@pop-os:~/Desktop/EXP2_JENKINS$ git commit -m "Jenkins Exp2 updated final"
[main 7b123b4] Jenkins Exp2 updated final
 Committer: LazyPunk <lazypunk@pop-os.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
```

```
lazypunk@pop-os:~/Desktop/EXP2_JENKINS$ git push
Enumerating objects: 36, done.
Counting objects: 100% (36/36), done.
Delta compression using up to 16 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (27/27), 5.47 KiB | 2.74 MiB/s, done.
Total 27 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/keshavbhrdwaj7/EXP2_JENKINS.git
```

5. An automatic build is triggered



	Declarative: Checkout SCM	Declarative: Tool Install	Stage 1 : Clean Stage	Stage 2 : test Stage	Stage 3 : Install stage	Stage Final : Build Sucess
Average stage times: (Average full run time: ~7s)	916ms	31ms	1s	2s	1s	55ms
#2 Sept 12 20:50 1 commit	1s	27ms	1s	2s	1s	58ms