Build and Release Management Lab Experiment 4

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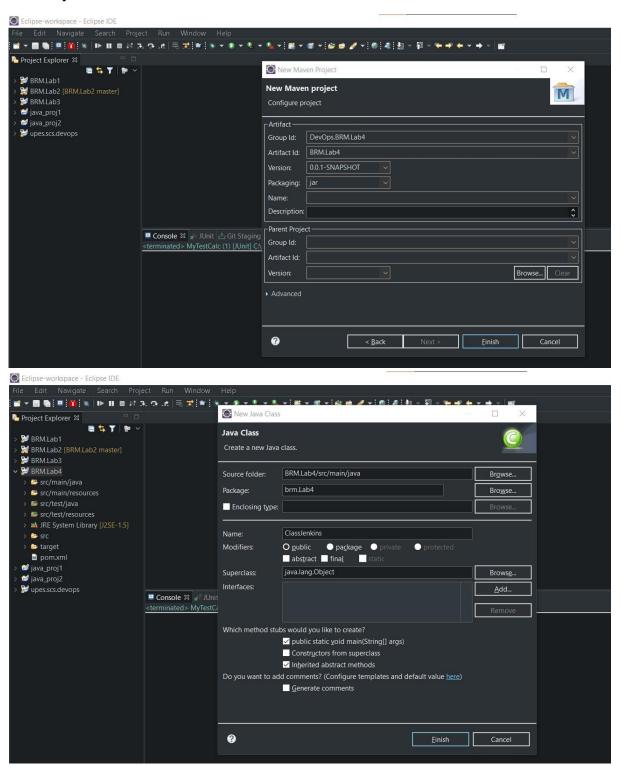
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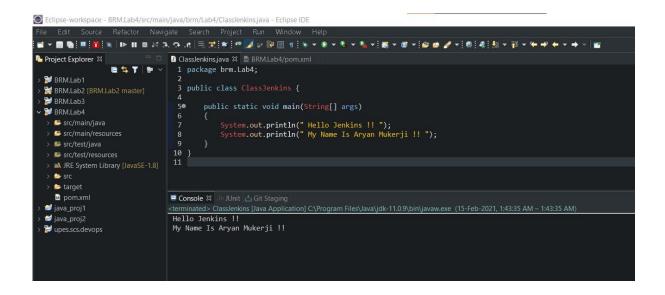
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Branch: B.Tech-CSE-DevOps

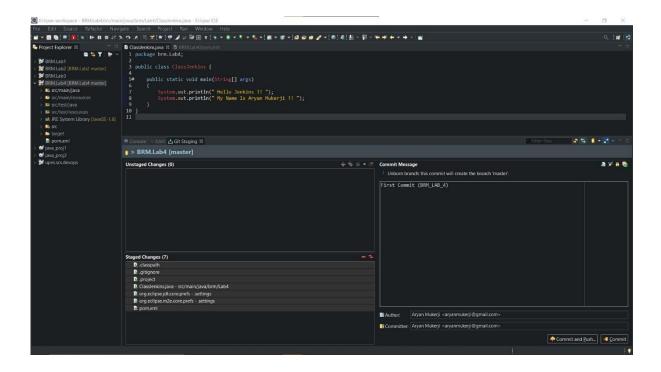
Aim: Create a maven project with a java class, initialize it with git, push the project into the remote repository and then use jenkins to automate the process of creating a maven build.

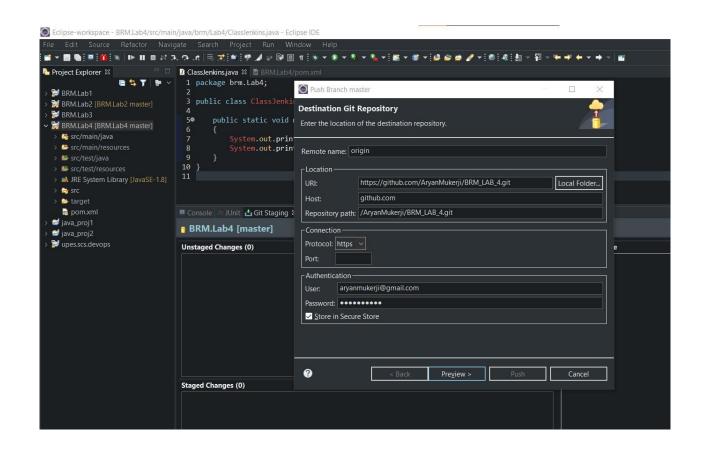
Step 1: Create a Maven project and a Java Class in it and add some java code in the class file.

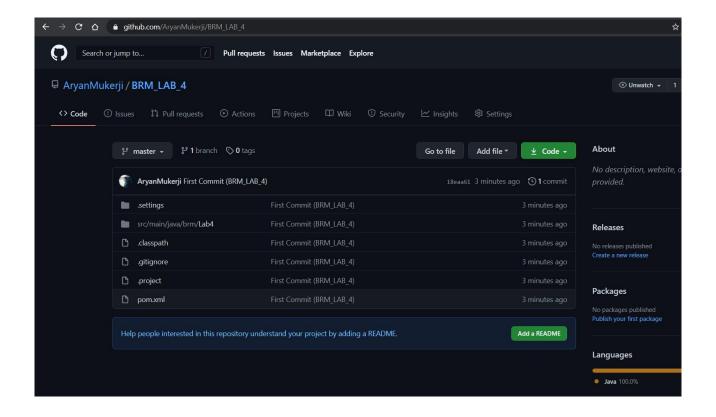




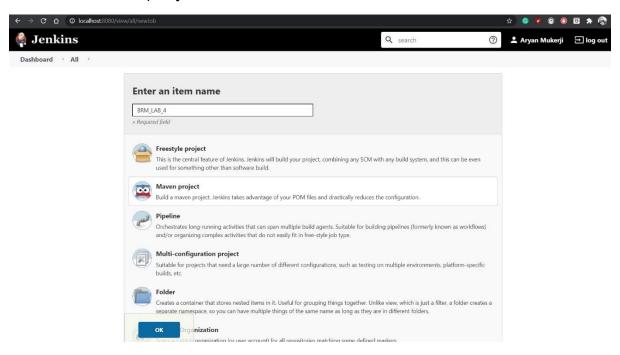
Step 2: Now initialize the project as a local git repository and then push the project into a remote git repository.



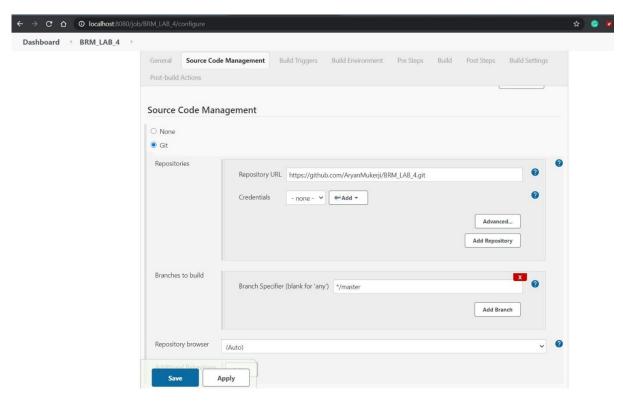




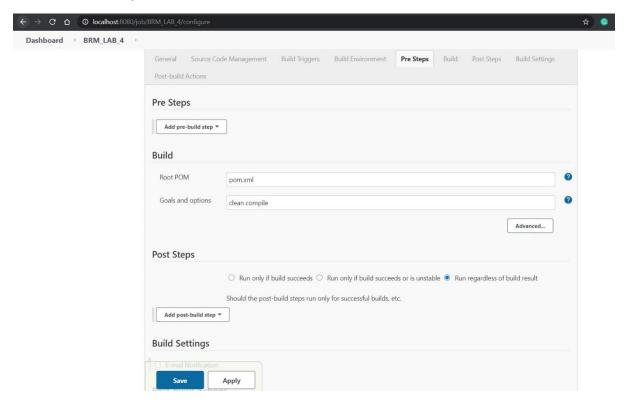
Step 3: Now open Jenkins, in Dashboard, click on "New item", a page will open, now enter a name for your maven project and select "Maven project" and then click "OK".

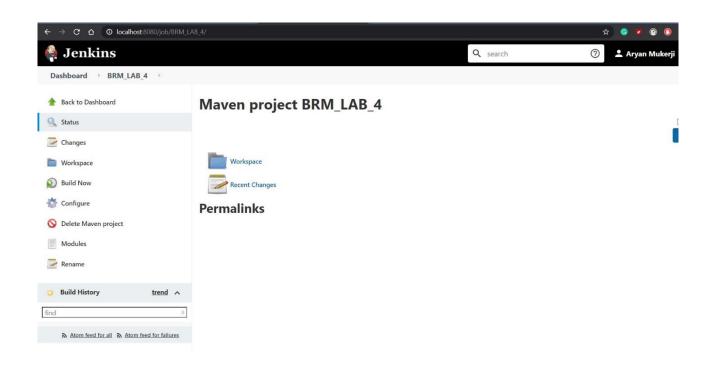


<u>Step 4:</u> A new page will open with many configurations to select from for your maven project. Under "Source Code Management", select "Git" and paste remote repository URL in which the project is pushed.

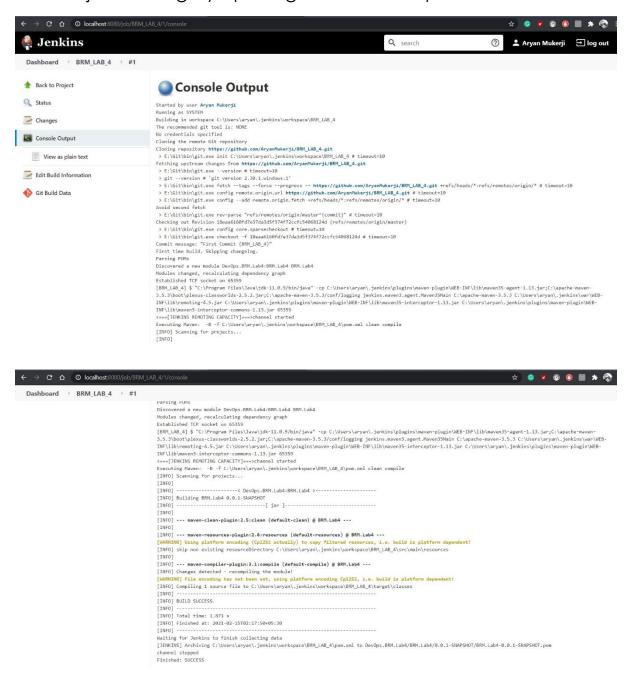


<u>Step 5:</u> Now under "Build", add goals like clean, compile, install and after that click on "Apply" and then click on "Save". Now a maven build job has been created.

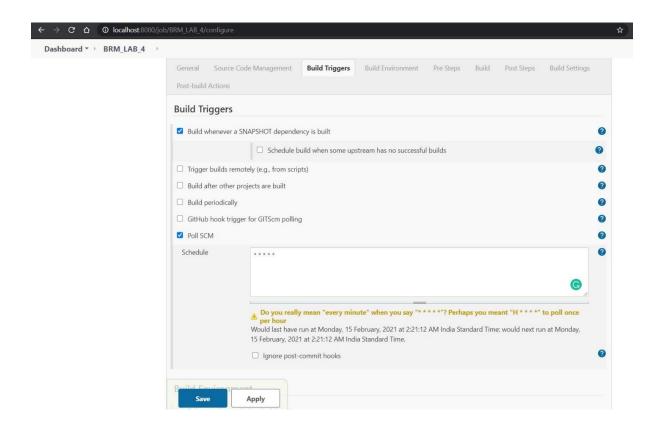




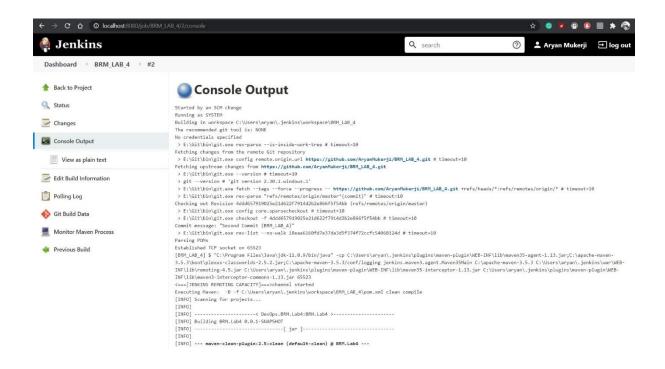
Step 6: Now click on "Build Now" to build the run the job. You can see the job running by opening "Console Output".

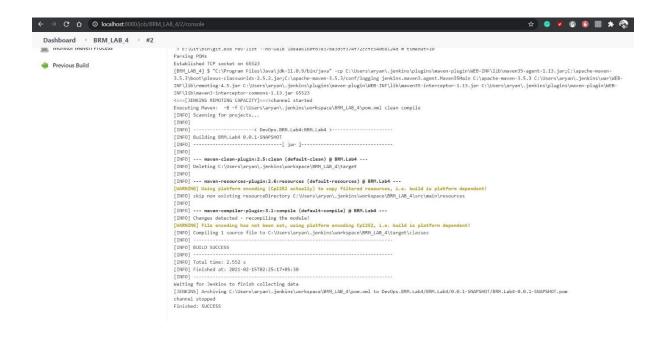


<u>Step 7:</u> We can now automate this process by changing some configurations in the job. Click on "Configure", a page will open with the previous configurations, now under "Build Triggers", select "Poll SCM" and in "Schedule" box type (* * * * *), then click on "Apply" & click on "Save".



Step 8: Now whenever there are some changes the remote repository, jenkins will automatically start the build job to create mayen builds.





Result: Hence we successfully created a maven project, initialized it with git, pushed the project into the remote repository and then used jenkins to automate the process of creating a maven build.