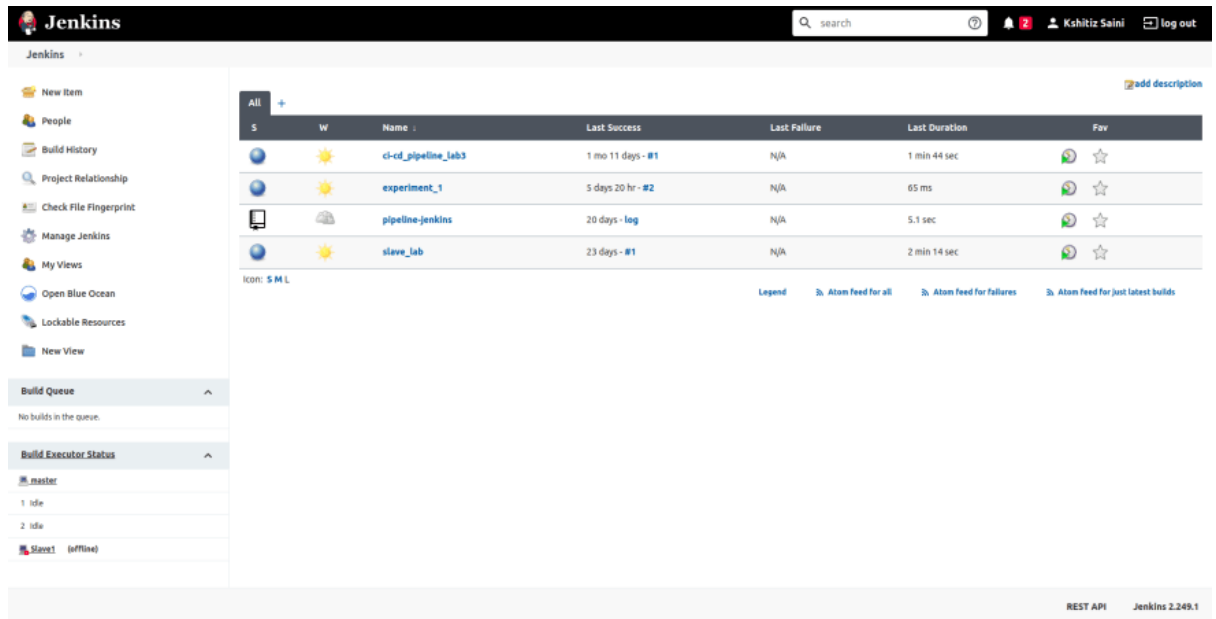


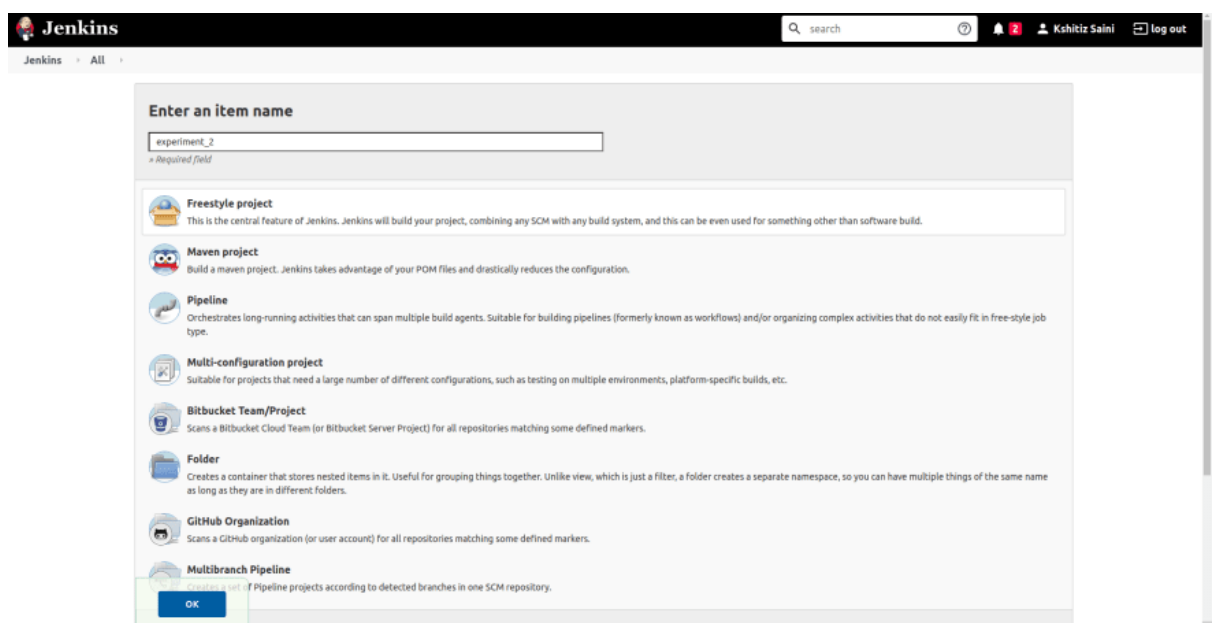
# Experiment 3

## Integrating GitHub + Maven + Jenkins

- 1) First we need to launch Jenkins in our device using the specified IP and login to the Jenkins server using the credentials.



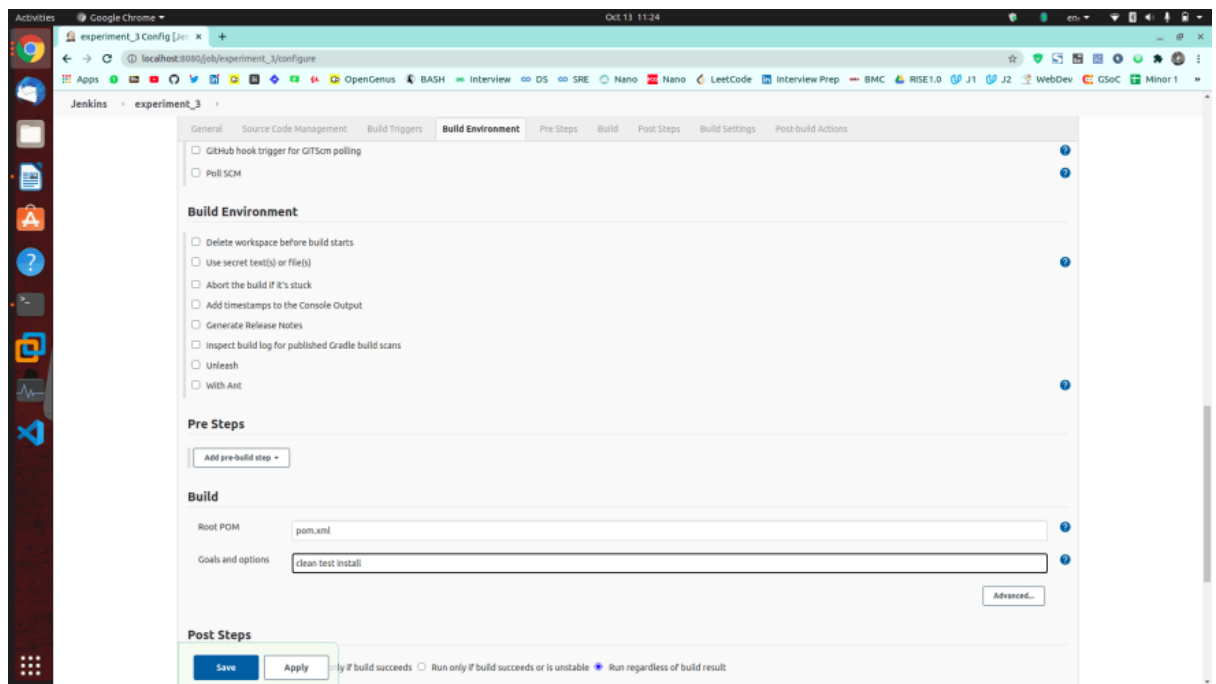
- 2) Create a new item and select the maven project and give it a name.



- 3) In the settings, we need to go to the Source Control Management option and select Git as our version control repository.
- 4) Enter the credentials of GitHub (if required) and the URL of the repo to work with.

The screenshot shows the Jenkins configuration page for a project named 'experiment\_2'. The 'Source Code Management' tab is selected. At the top, there is a checkbox for 'Restrict where this project can be run' and an 'Advanced...' button. Below this, the 'Source Code Management' section has two radio buttons: 'None' and 'Git', with 'Git' being selected. Under the 'Git' section, there is a 'Repositories' block containing a 'Repository URL' field with the value 'https://github.com/fshkizsaini113/TCP-IP-Stack-Functionality.git', a 'Credentials' dropdown menu set to 'none', and an 'Add' button. To the right of this block are 'Advanced...' and 'Add Repository' buttons. Below the repositories is a 'Branches to build' section with a 'Branch Specifier (blank for \'any\')' field containing '\*/master' and an 'Add Branch' button. Further down is a 'Repository browser' dropdown menu set to '(Auto)'. Below that is an 'Additional Behaviours' section with an 'Add' button. At the bottom of the page are 'Save' and 'Apply' buttons.

- 5) Specify the pom file location.
- 6) Specify the maven goals to run.



7) Click on Save and Apply.

8) Run and test the build

