## **API Build-Test-Release Jenkins CI-CD Pipeline**

In this lab, we will build a Jenkins CI-CD pipeline for spring boot based microservice application that service REST API calls to perform CRUD operations.

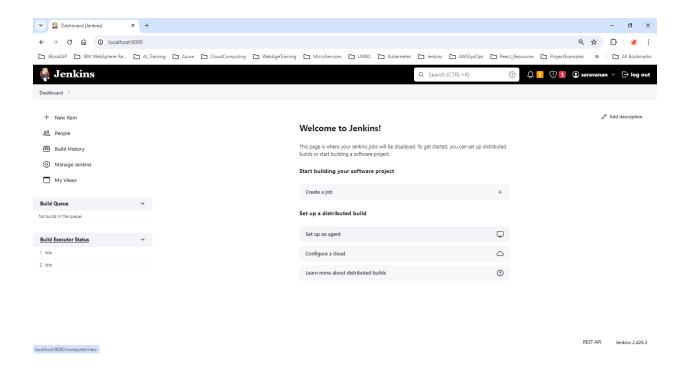
The GitHub Code repository for this Jenkins CI-CD pipeline is available at

https://github.com/foxwas/customerserviceAPI

If you do not have Jenkins on your system, download, install and set it up.

Let us use the Jenkins in our lab machine.

- 1. Open a command window, change directory to Jenkins directory and **start Jenkins** OR If Jenkins is running as a service, make sure the service is running.
- 2. Open a browser, go to Jenkins home page, Use the Jenkins user credentials to login. Ask your Instructor about Jenkins set up in your lab environment.



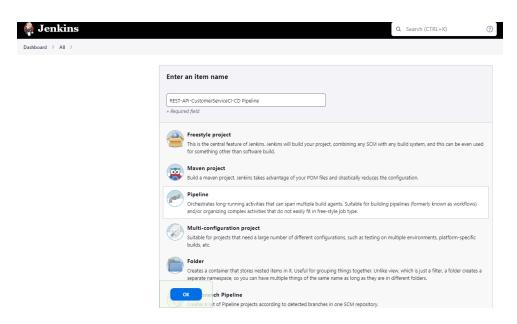
3. In the Jenkins Dashboard page, click on New Item

4. Let us create a Pipeline item with the following configuration.

Name: REST-API-CustomerServiceCI-CD Pipeline

Project type: Pipeline

Click Ok.



5. In the Pipeline configuration page, scroll down to Pipeline section, use the following configuration.

select the option: Pipeline script from SCM

SCM: Git

Repository URL: https://github.com/foxwas/customerserviceAPI.git

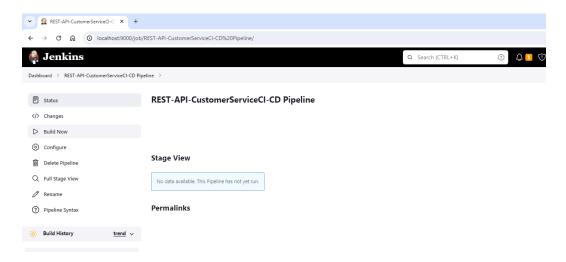
Credentials: none
Branch Specifier: \*/main
Script Path: Jenkinsfile

Click on Apply and then Save.

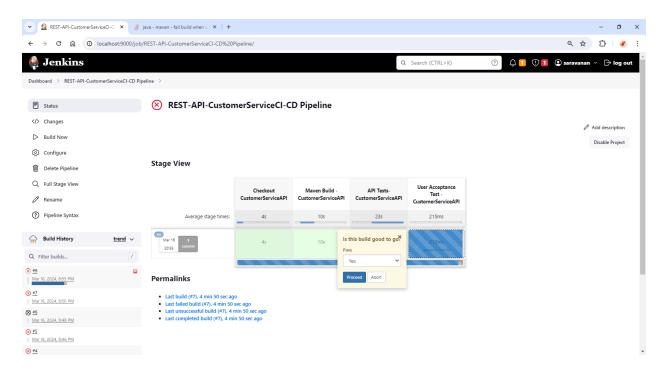
6. You may review the pipeline script at the site

https://github.com/foxwas/customerserviceAPI/blob/main/Jenkinsfile

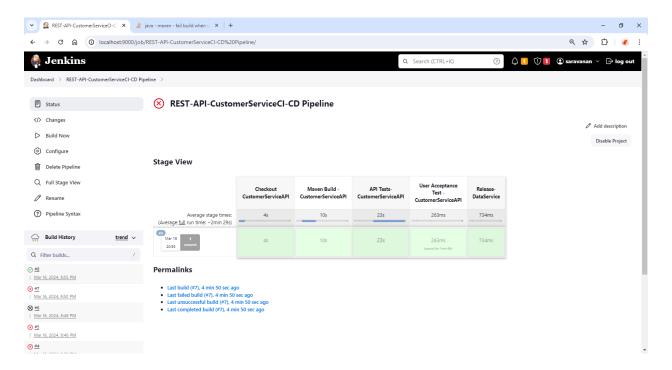
7. In The pipeline page, Click on Build Now.



- 8. Review the pipeline stages, each stage log messages.
- 9. In the User Acceptance Stage click on the stage, select Yes, and click on Proceed.



10. Review the pipeline stages and log messages.



- 11. Select the build → Click on Console output and review the console log messages.
- 12. Select any customer in the list, Edit customer data to update the customer and Save.

