Software Engineering and Project Management

EXPERIMENT - 4

Name: Nisarg Sampat

Batch: T21

Roll No: 87

AIM:

To understand Continuous Integration, install and configure Jenkins with Maven/Ant/Gradle to

setup a build Job.

THEORY:

Jenkins is an open-source automation tool written in Java with plugins built for Continuous

Integration purpose. Jenkins is used to build and test your software projects continuously making

it easier for developers to integrate changes to the project and making it easier for users to obtain

a fresh build. It also allows you to continuously deliver your software by integrating with many

testing and deployment technologies.

Jenkins simplifies and accelerates the software development lifecycle. By automating repetitive

tasks, it reduces the chance of errors, provides faster feedback to developers, and enables more

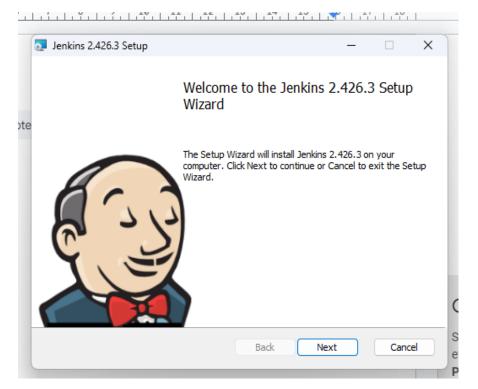
frequent software releases. This automation helps teams to deliver software more quickly and

with higher quality. It is a valuable tool for any team looking to improve their software

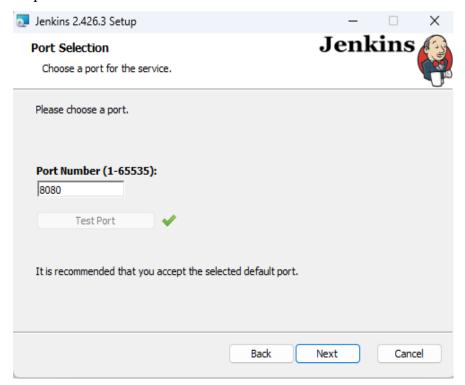
development workflow.

The Steps to install Jenkins and implement the jobs are given below as:

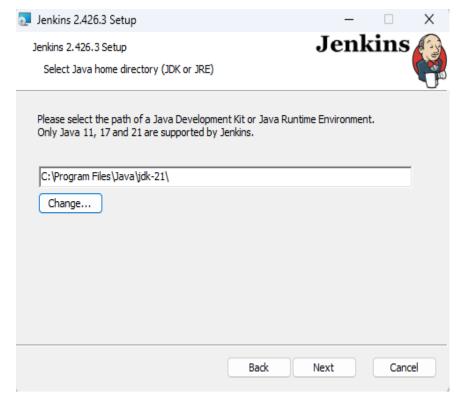
Step 1:



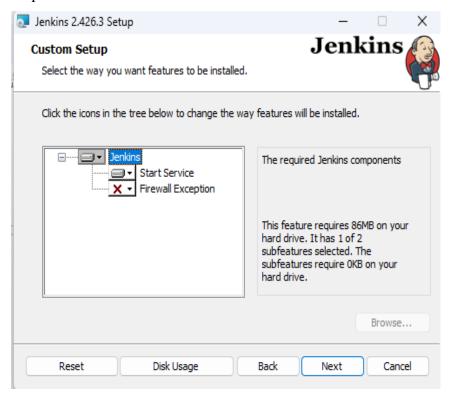
Step 2:



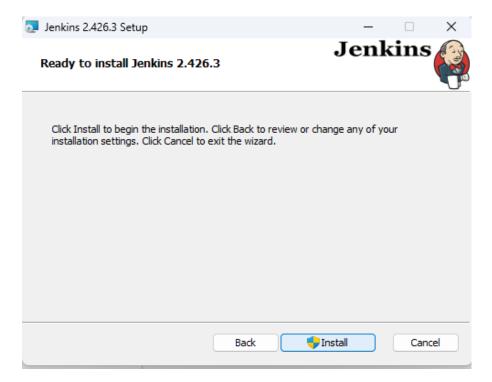
Step 3:



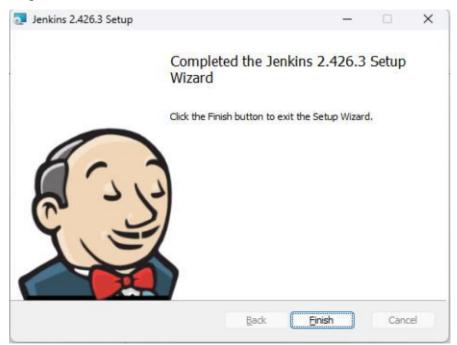
Step 4:



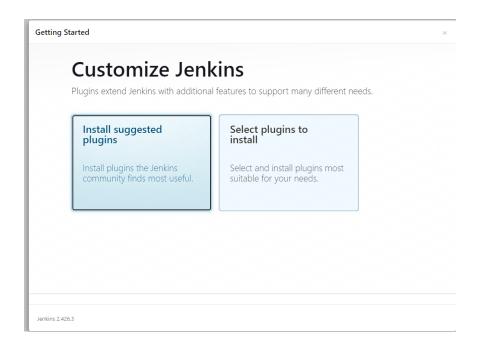
Step 5:



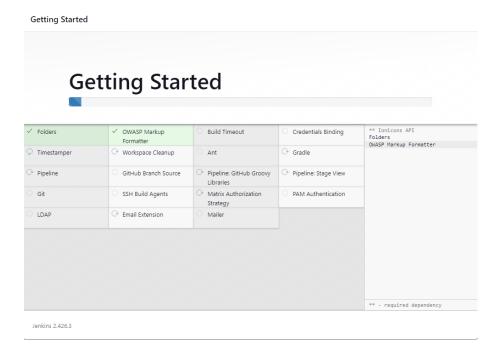
Step 6:



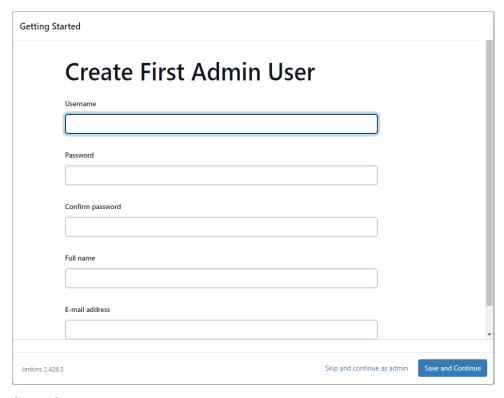
Step 7:



Step 8:



Step 9:



Step 10:

Getting Started

admin@sallamail.com

Create First Admin User

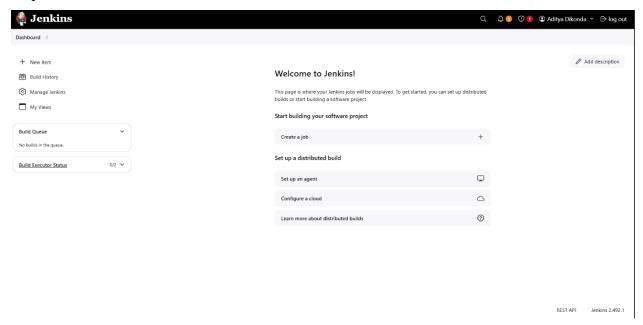
Username
admin

Password
........

Confirm password
.......

Full name
admin

Step 11:



CONCLUSION:

Jenkins with Maven simplifies Continuous Integration, automating builds and improving project efficiency for faster development cycles and higher software quality.