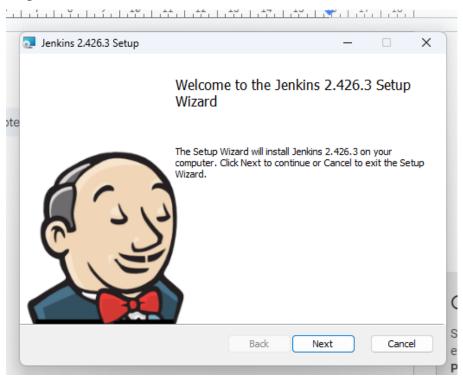
EXPERIMENT - 4

<u>AIM</u> - To understand Continuous Integration, install and configure Jenkins with Maven/Ant/Gradle to setup a build Job

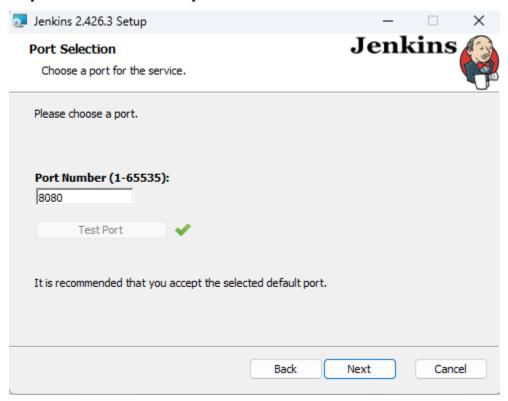
THEORY:

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.

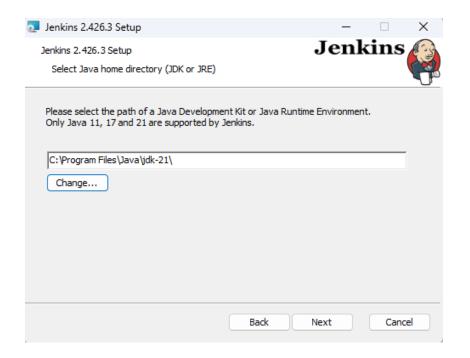
Step 1: Install Jenkins from website



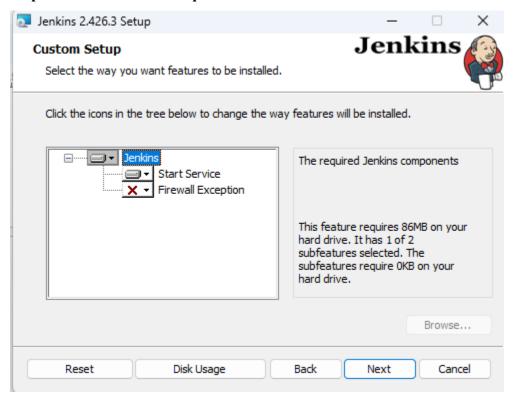
Step 2: Select the desired options



Step 3: Select the files where jdk 21 is installed



Step 4: Select the desired options



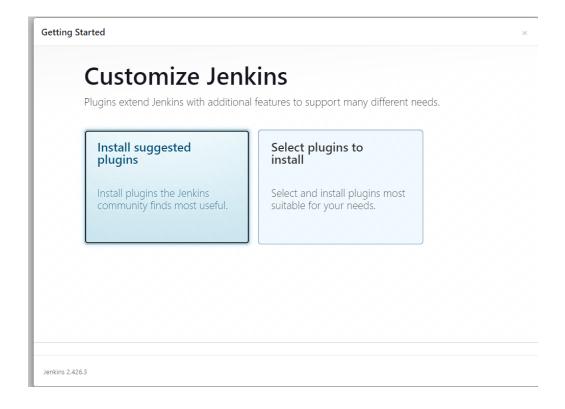
Step 5: Install the file



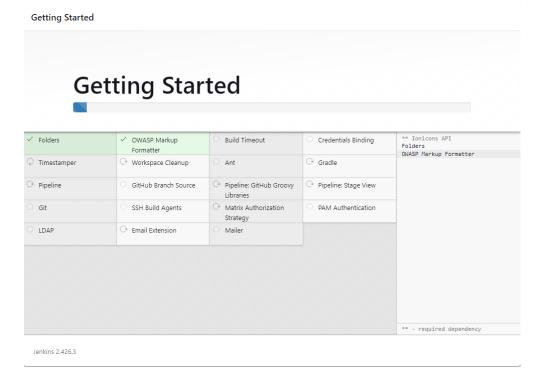
Step 6: Installation is finished



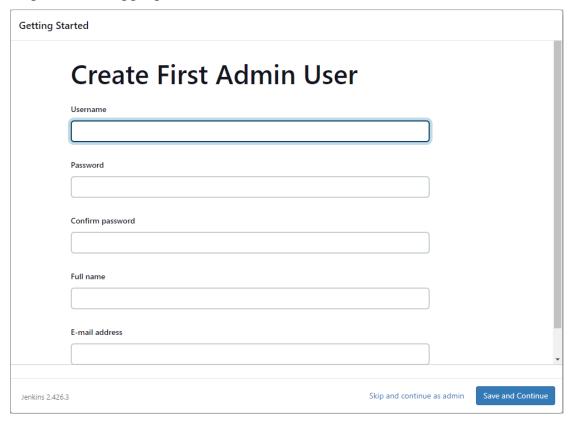
Step 7: Go on localHost:8080



Step 8: Select the options and wait for a few minutes



Step 9: Fill the appropriate credentials



🦣 Jenkins ① 1 + New Item Welcome to Jenkins! 2 People This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project. Build History Manage Jenkins Start building your software project My Views Create a job Set up a distributed build No builds in the queue. **Build Executor Status** 1 Idle \bigcirc 2 Idle Learn more about distributed builds

Step 10: Congratulations! You have created your Jenkins account

CONCLUSION:

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