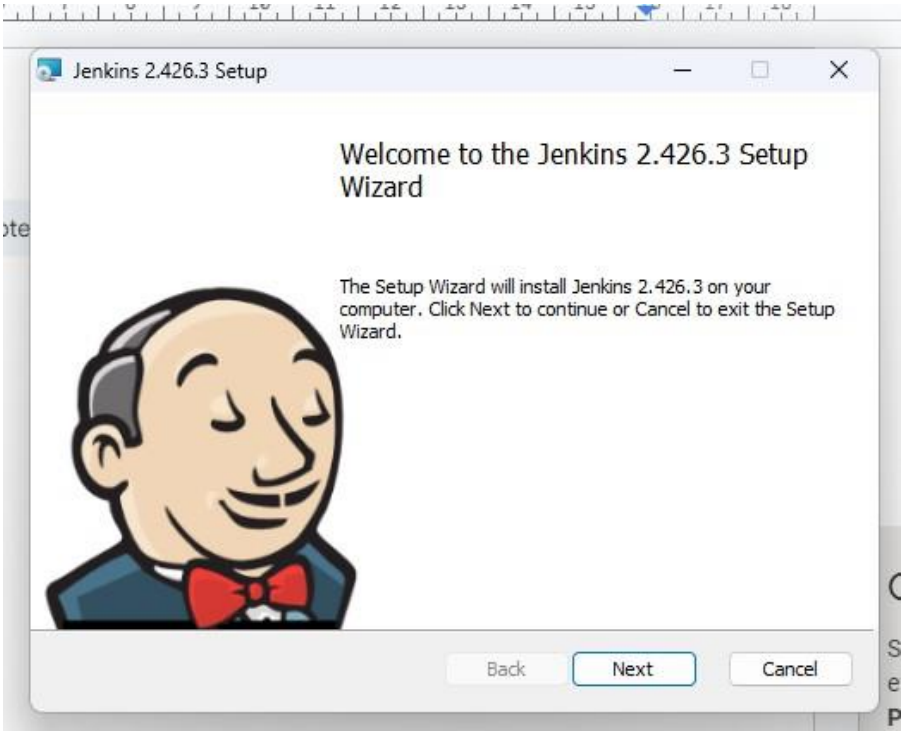
# EXPERIMENT – 4

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

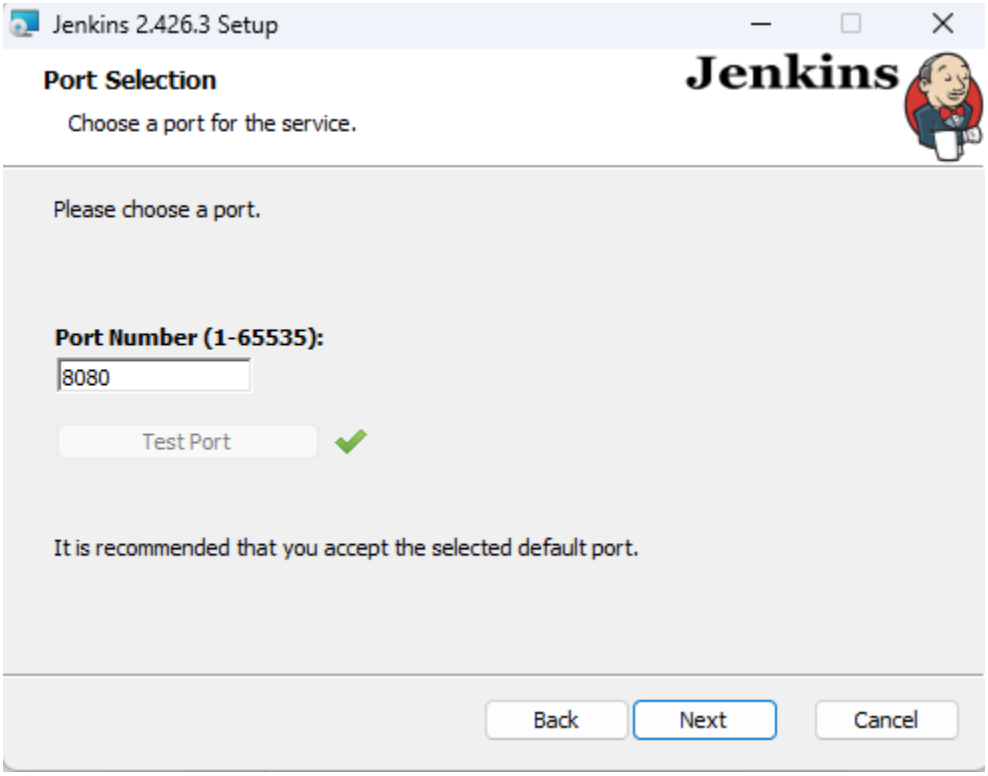
## THEORY:

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.

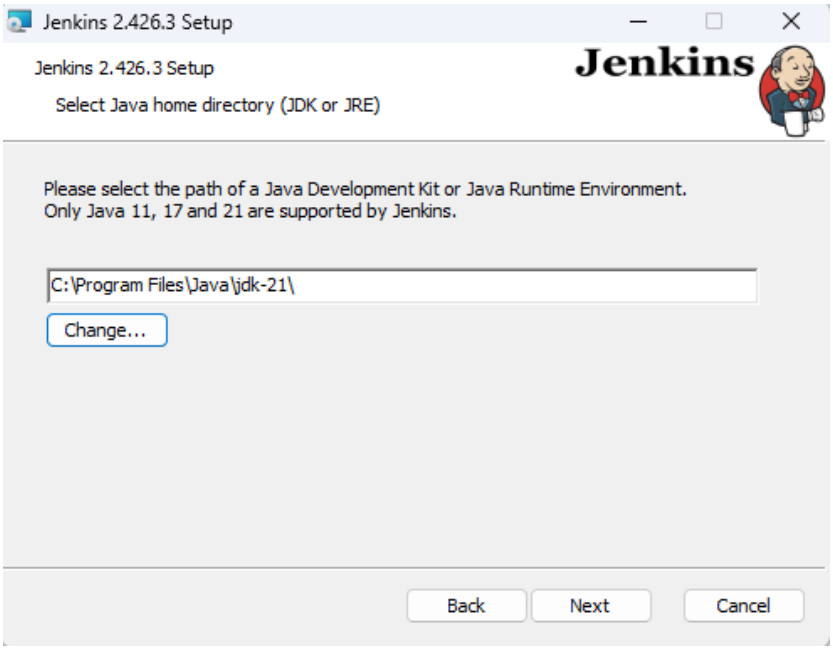
### Step 1: Install Jenkins from website



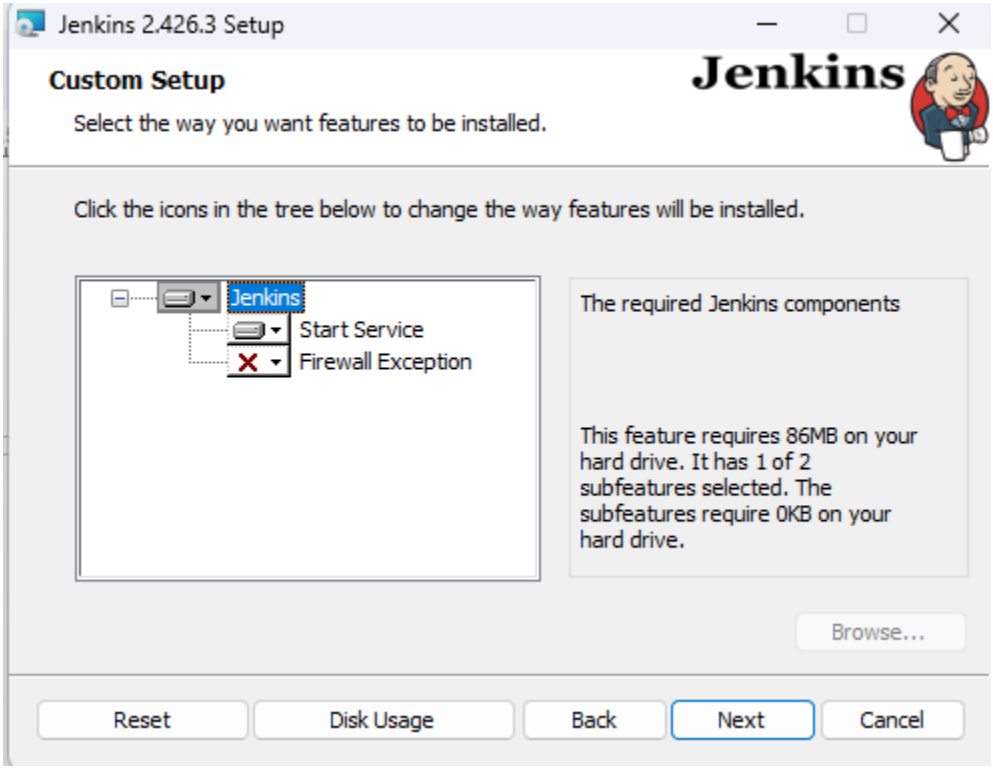
**Step 2: Select the desired options**



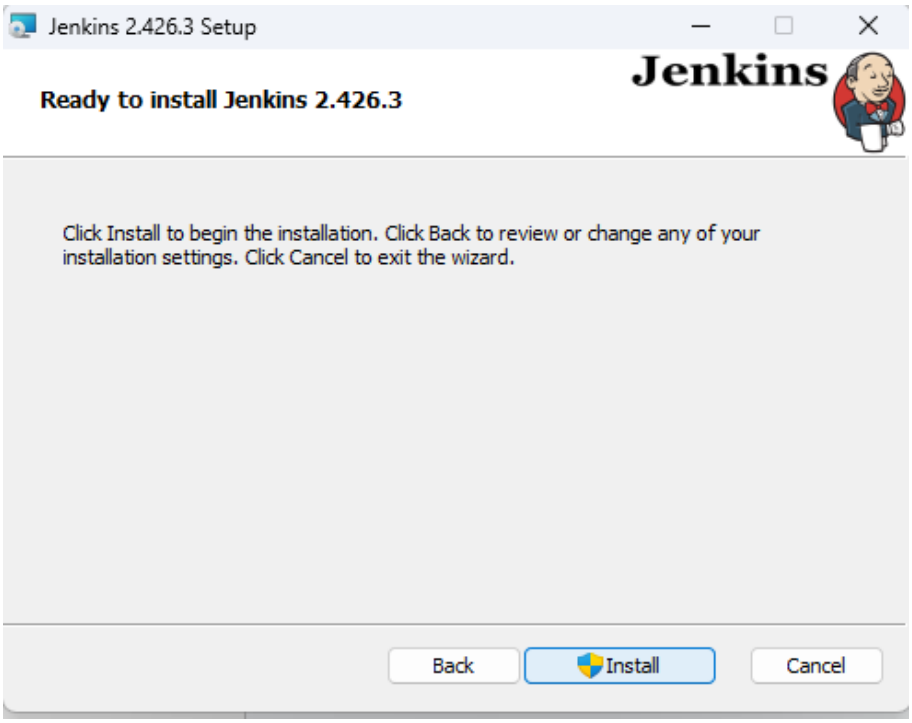

**Step 3: Select the files where jdk 21 is installed**



**Step 4: Select the desired options**

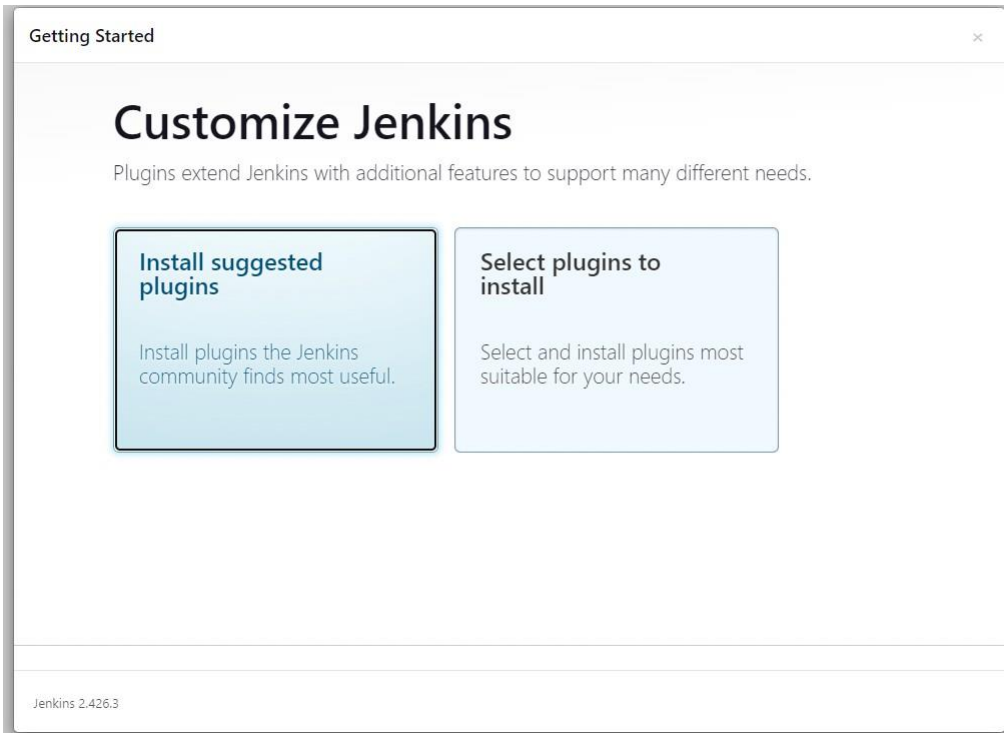



**Step 5: Install the file**

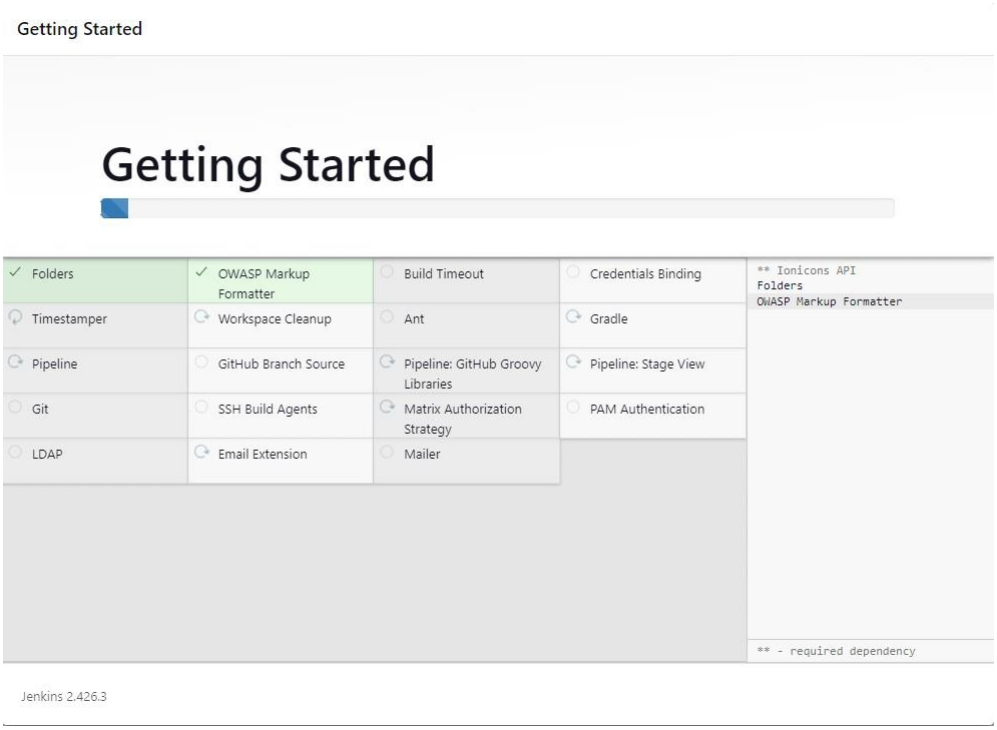


**Step 6: Installation is finished**

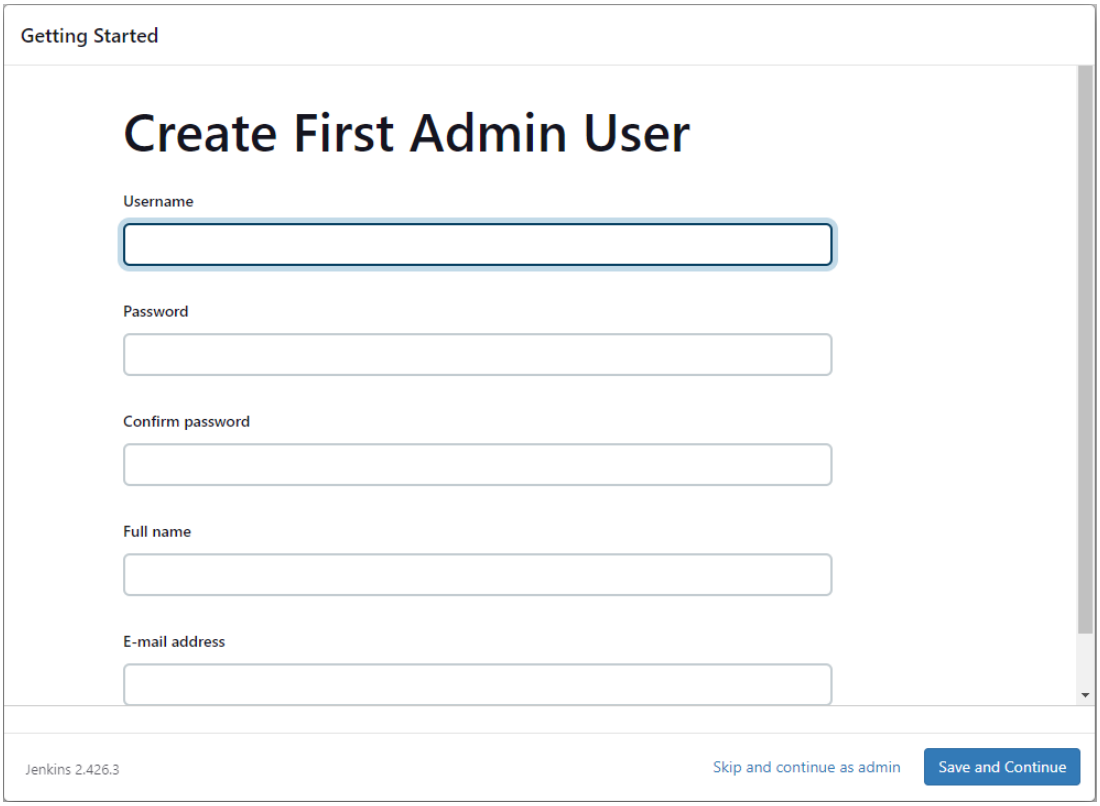
**Step 7: Go on localHost:8080**



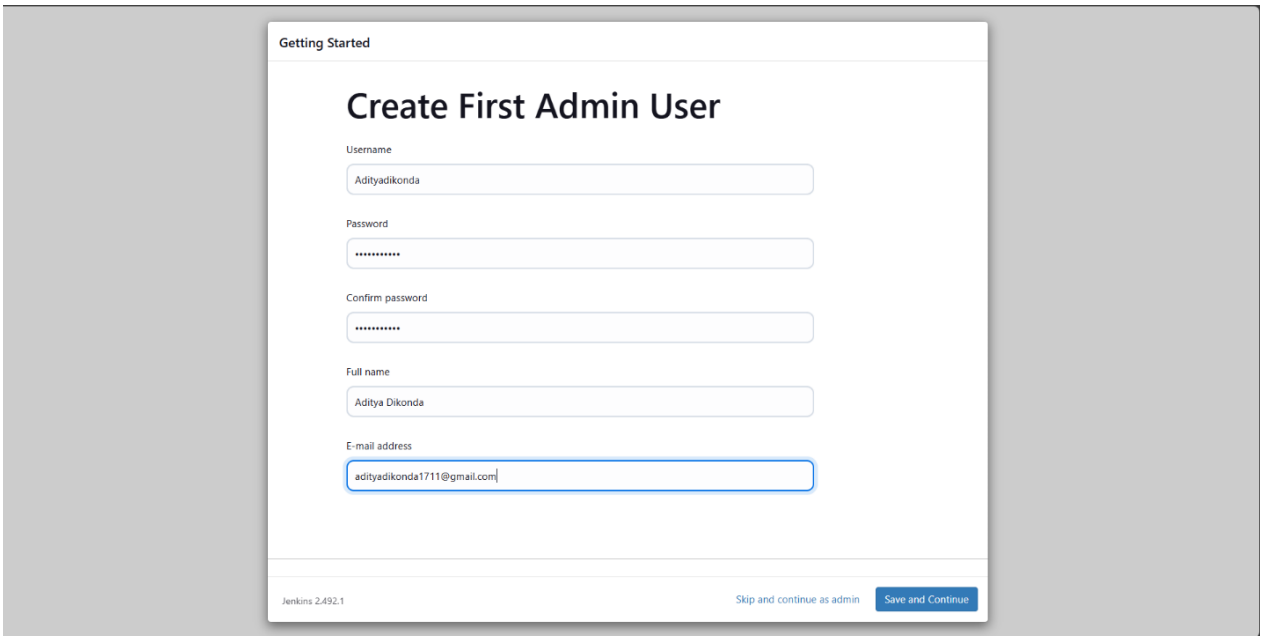
## Step 8: Select the options and wait for a few minutes



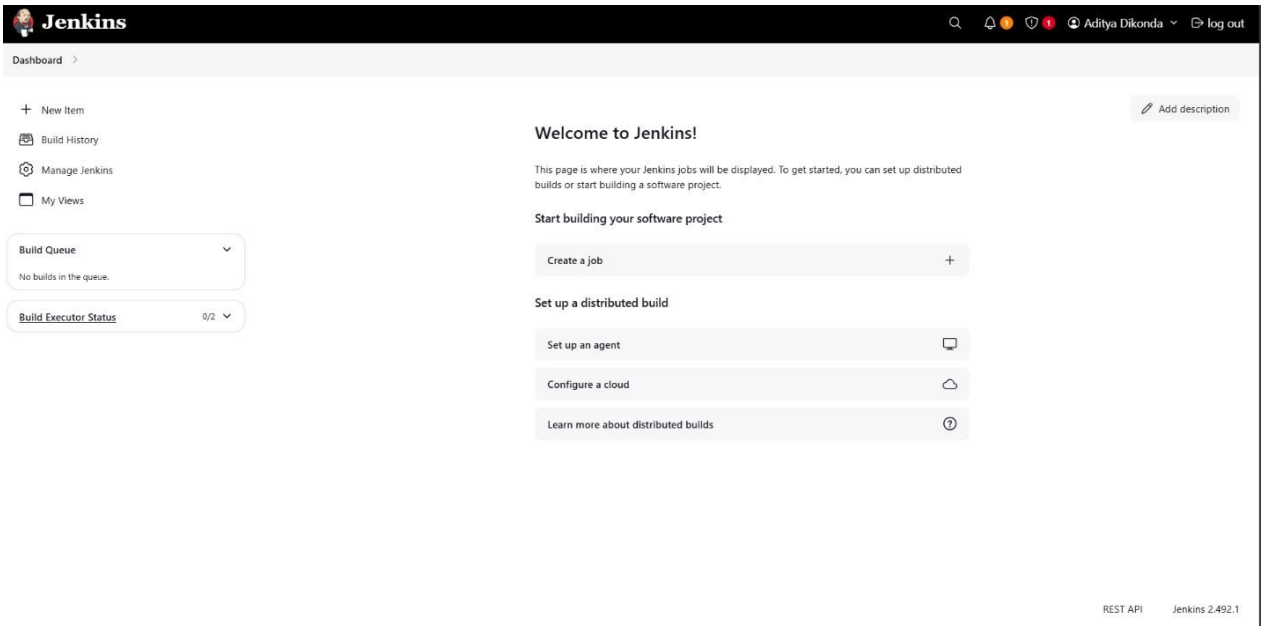

## Step 9: Fill the appropriate credentials



**Step 10:**




**Step 11: 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.