Lab Exercise 7 Integrating Maven with Jenkins

Objective: To install the Maven plugin in Jenkins for smooth integration and automation of Maven-based build processes within the Jenkins environment

Tools required: Git, GitHub, and Jenkins

Prerequisites: None

Steps to be followed:

1. Install the Maven plugin

2. Set up Global Tool Configuration

3. Fork a sample repository

4. Integrate Maven with Jenkins

Step 1: Install the Maven plugin

1. Open the browser, go to the Jenkins Dashboard by typing localhost:8080 in your browser, provide the credentials, and click the Sign in button



Username mohdanas Password Keep me signed in

2. Click on the Man a	ige Jenkins option as shown in the screenshot be	low:		
3. Click on the Plugi	ns option as shown in the screenshot below:			
4. Click on Installed installed	plugins to verify whether the Maven Integration	plugin h	ıas bee	·n
/ Manage Jenkins	/ Plugins	Q	©	•
₩ Updates				25
Available plugins				
? Installed plugins				
Advanced settings				
□ Download progress				
Download progre	ess			
Preparation	Checking internet connectivityChecking update center connectivitySuccess			
Dev Tools Symbols API	Success			
Javadoc				
JSch dependency				
Maven Integration	✓ Success			
Loading plugin extensions	Success			
5. Use the following mvn -version	command to check the Maven version:			

```
Apache Maven 3.9.11 (3e54c93a704957b63ee3494413a2b544fd3d825b)

Maven home: /opt/homebrew/Cellar/maven/3.9.11/libexec

Java version: 24.0.2, vendor: Homebrew, runtime: /opt/homebrew/Cellar/openjdk/24.0.2/libexec/openjdk.
jdk/Contents/Home

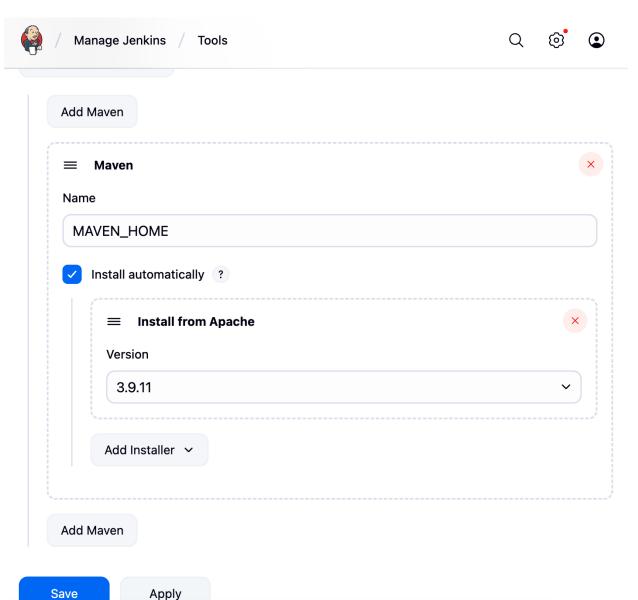
Default locale: en_US, platform encoding: UTF-8

OS name: "mac os x", version: "15.5", arch: "aarch64", family: "mac"

mohdanas@Mohds-MacBook-Air ~ %
```

Step 2: Set up Global Tool Configuration

1. Go to the Jenkins Dashboard, click on **Manage Jenkins**, and then select **Tools** from the list of options



2.	To configure Maven, click on the Maven installations button in the Maven section and enter a Name and MAVEN_HOME path
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