

## **Test management tools**

### **Eclipse and Maven Tutorial**

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# 1. Install Maven in Eclipse

## 1. Open your Eclipse project in your workspace

## 2. In Eclipse, Help Menu --> Install New Software

- select your Eclipse version on the "Work with" section
- in "the type filter text" section add "Maven"

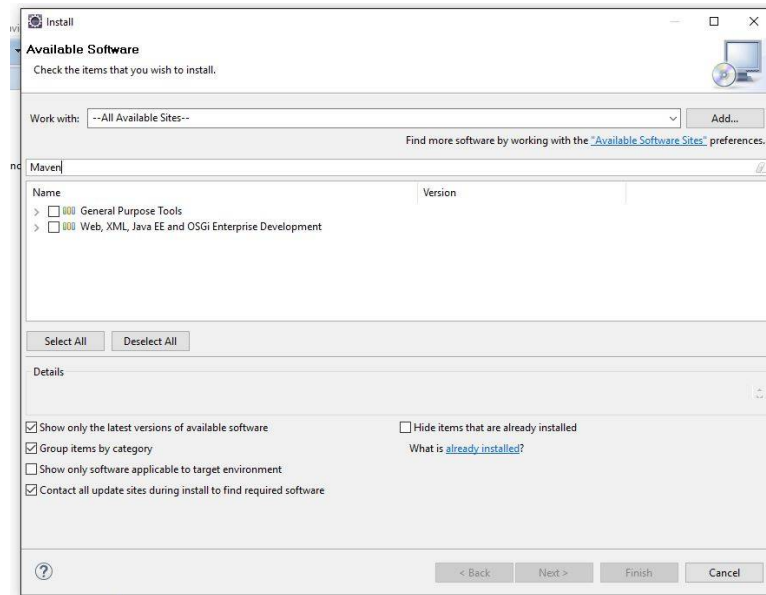


Figure 1. Install new software – Maven

- select "Maven Integration for Eclipse" and click Next.

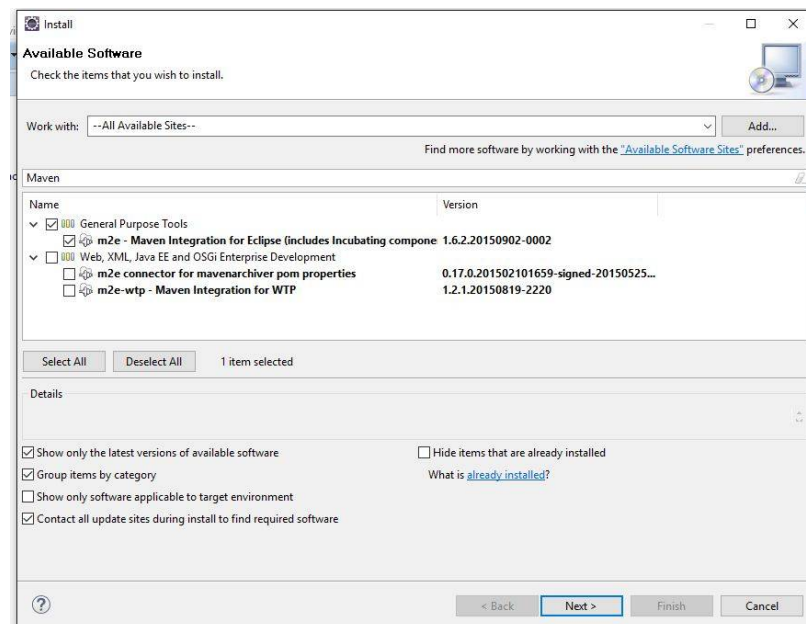


Figure 2. Install new software – Selection “Maven Integration for Eclipse”

- wait for the installation to finish.

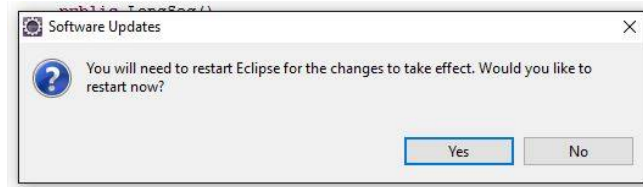


Figure 3. Install new software – installation finished

## 2. Create Maven project

- In Eclipse->**Menu File--> New--> Other**
- select Maven--> Maven Project--> click next

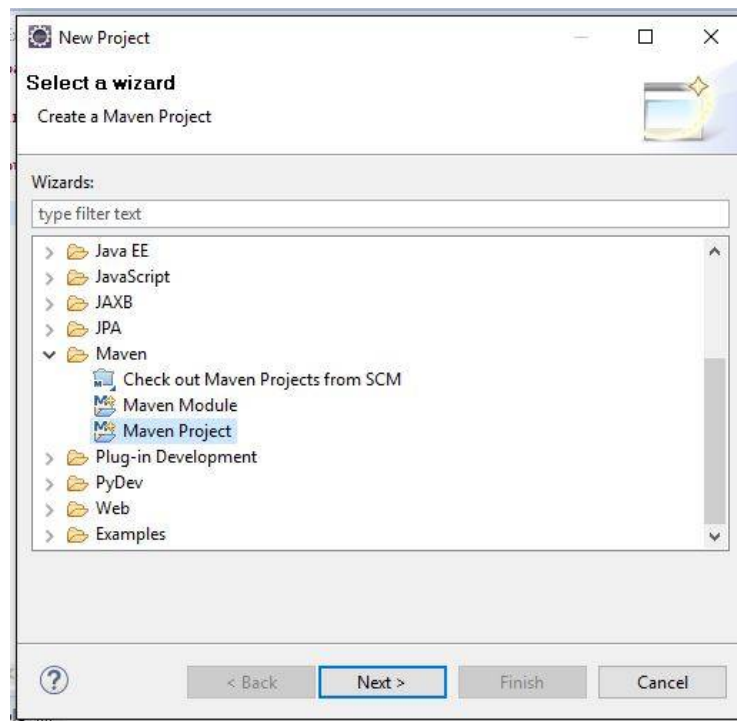


Figure 4. Create Maven project– select project type

- check the "Use default Workspace location"

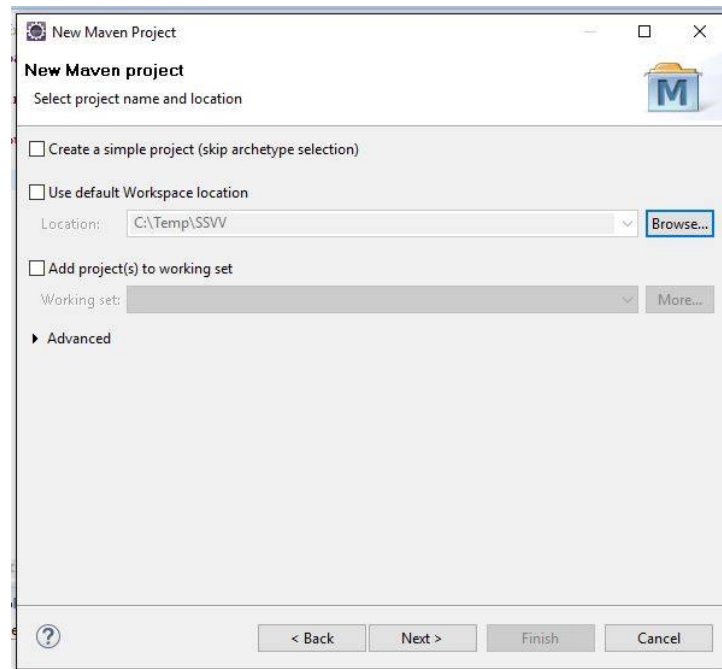


Figure 5. Create Maven project– default workspace

- From "All Catalog" select "maven-archetype-quickstart"

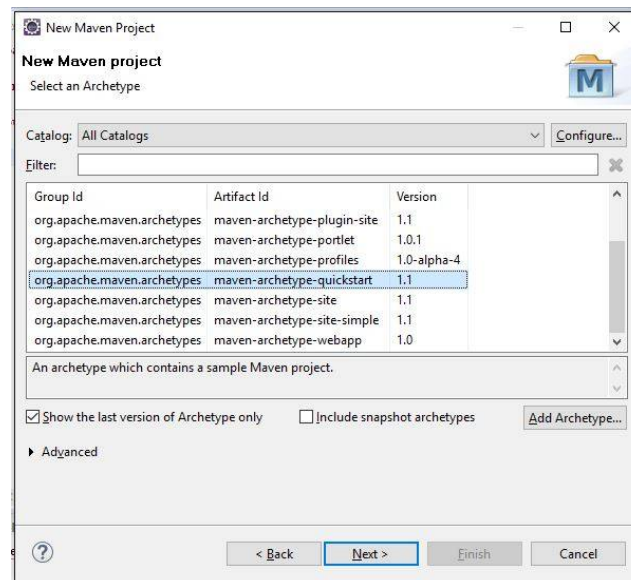


Figure 6. Create Maven project– select "maven-archetype-quickstart"

- fill the fields
  - Group Id: **scs\_user\_id\_MV** (for example, for student Savu Victor Gabriel (svie1164@scs.ubbcluj.ro) the group id will be **svie1164MV**)
  - Artefact Id: **scs\_user\_id** (for example, for student Savu Victor Gabriel (svie1164@scs.ubbcluj.ro) the artefact id will be **svie1164**)
  - The Package field will be automatically filled in (**do not modify it but remember to use it in your project**).

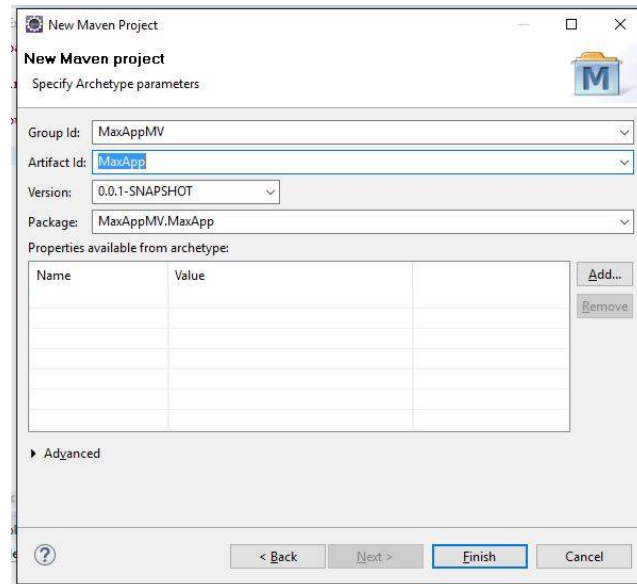


Figure 7. Create Maven project– fill the fields

- Click Finish button and the project tree appears in the Eclipse Package explorer

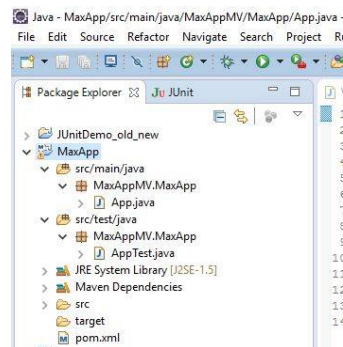


Figure 8. Create Maven project– Eclipse package explorer project

### 3. Install Maven Plugin for "failsafe" in Eclipse

- In Eclipse, right click on your navigation project tree--> Maven-->Add Plugin

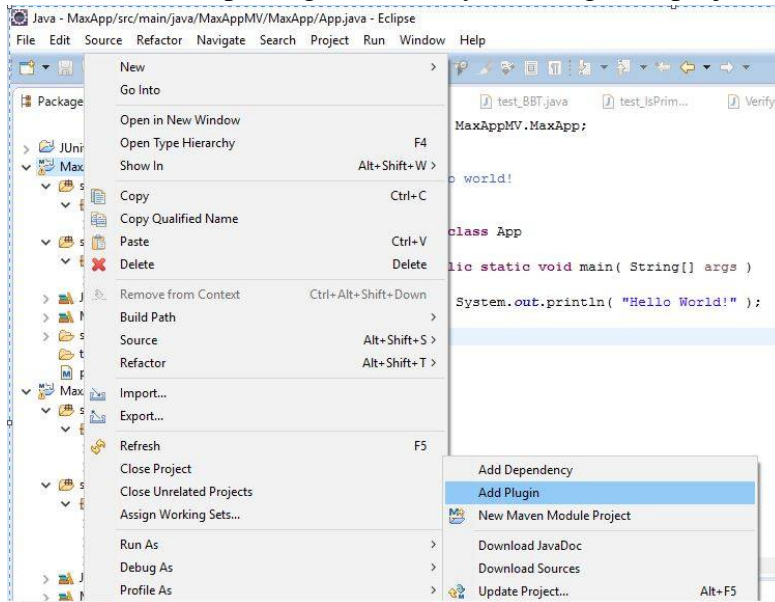


Figure 9. Install Maven plugin – Add Plugin

- In the field "Enter groupId, artefactId or..." write: failsafe

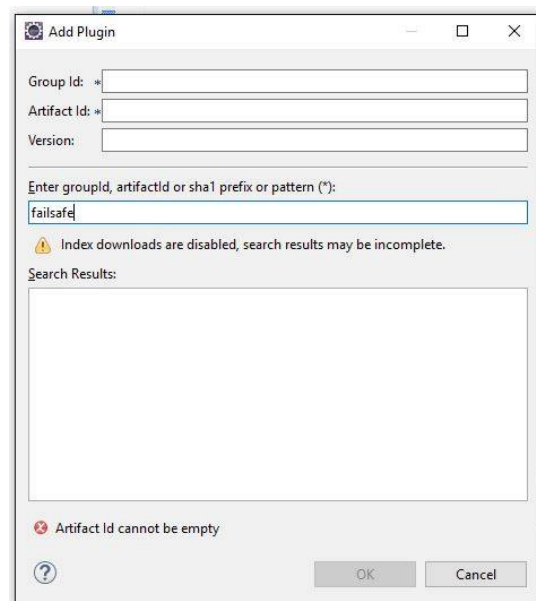


Figure 10. Install Maven plugin – “failsafe”

Remark. You may have the following error.

Error: Index downloads are disabled, search result may be incomplete.

How to enable index downloads?

To enable index download:

- In eclipse click on **Windows > Preferences** and choose **Maven** in the left side.
- Now you have to check the box "**Download repository index updates on startup**"

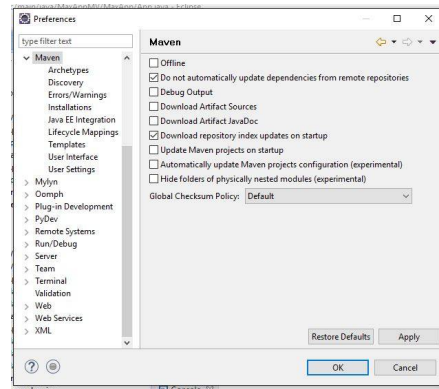


Figure 11. Install Maven plugin – download error

- Click **OK** and the warning should be gone.
- Then you should restart eclipse.
- Wait the "Search result" to populate
- Select "org.apache.mave.plugins" (version 2.19.1)

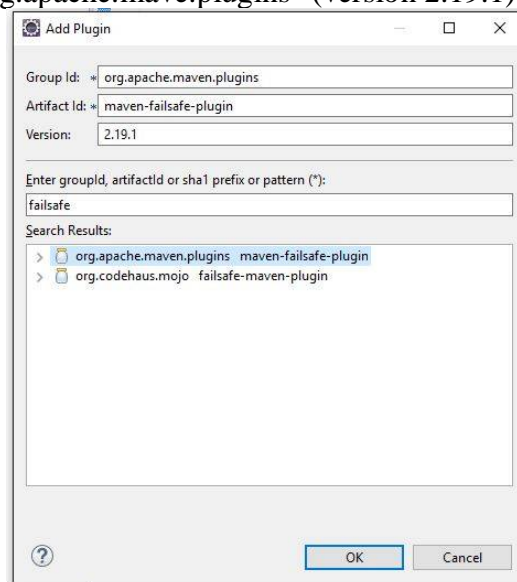


Figure 12. Install Maven plugin – select plugin

- Click button Ok.

## 4. JUnit configuration for Maven project and updatepom.xml

- In Eclipse->Project Explorer
- Click right on the project from the Package explorer in Eclipse --> Build path--> Add Libraries --> select JUnit and the select Next

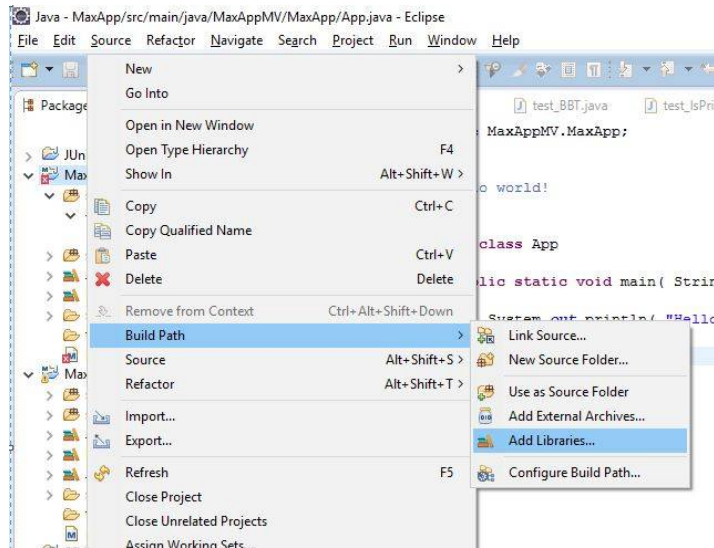


Figure 13. Junit for Maven – Add libraries

- Select JUnit library version (JUnit4) and then Finish

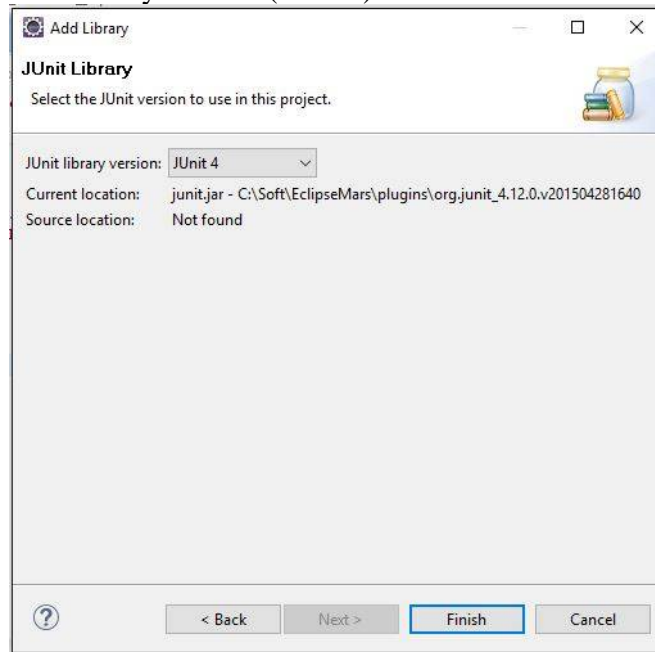


Figure 14. Junit for Maven – select JUnit



- **Modify the JUnit Version in pom.xml**

- In the Maven project, in the file pom.xml modify the JUnit version to 4.11. See the dependency tree below.

```
<dependencies>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>4.11</version>
  <scope>test</scope>
</dependency>
....
</dependencies>
```

## 5. Install SVN plugin in Eclipse

- In Eclipse, Help Menu --> Install New Software
  - select your Eclipse version on the "Work with" section
  - in "the type filter text" section add "SVN"

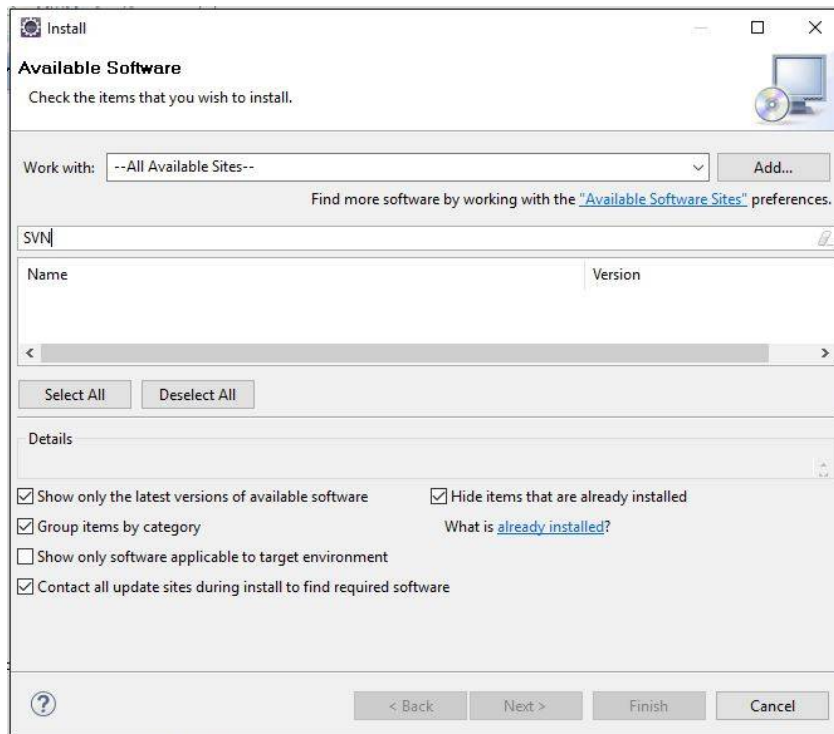


Figure 15. Eclipse – SVN

- wait for the Search section to be populated and then select "SVN subversion TeamProvider" and "SVN subversion TeamProvider Sources" and click next.

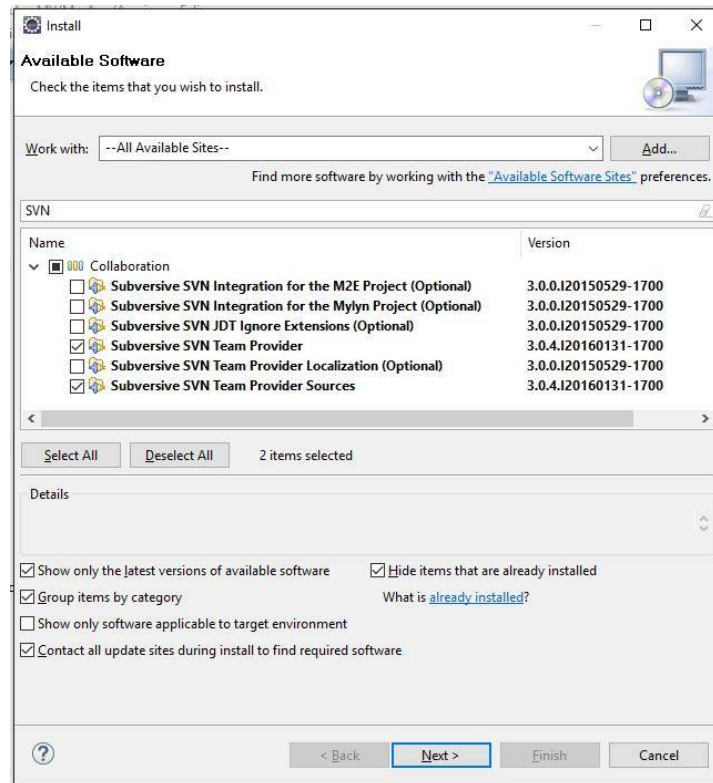


Figure 16.Eclipse – SVN Team provider

- wait for the installation to finish

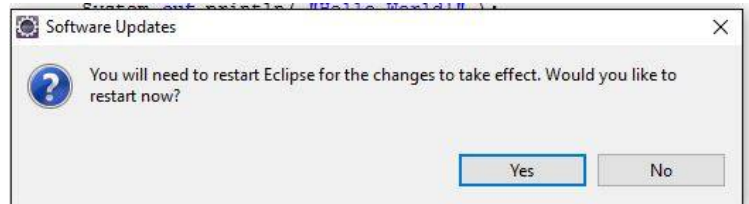
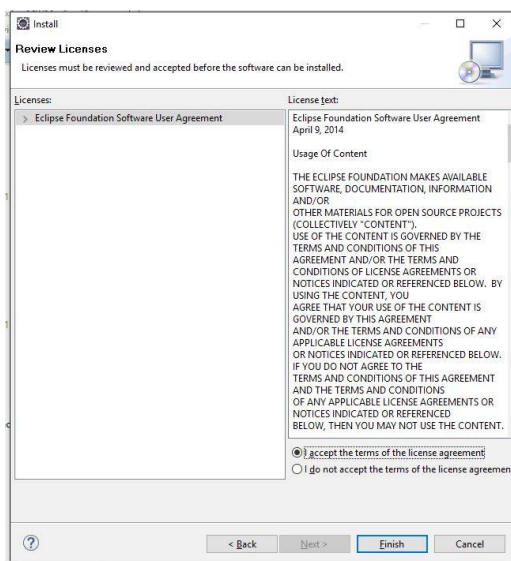


Figure 17.Eclipse – SVN Team provider-finish installation

## 6. Maven project to SVN

- in Eclipse, in **Project Explorer**, right click on the Maven project---> **Team** ---> **Share Project**;

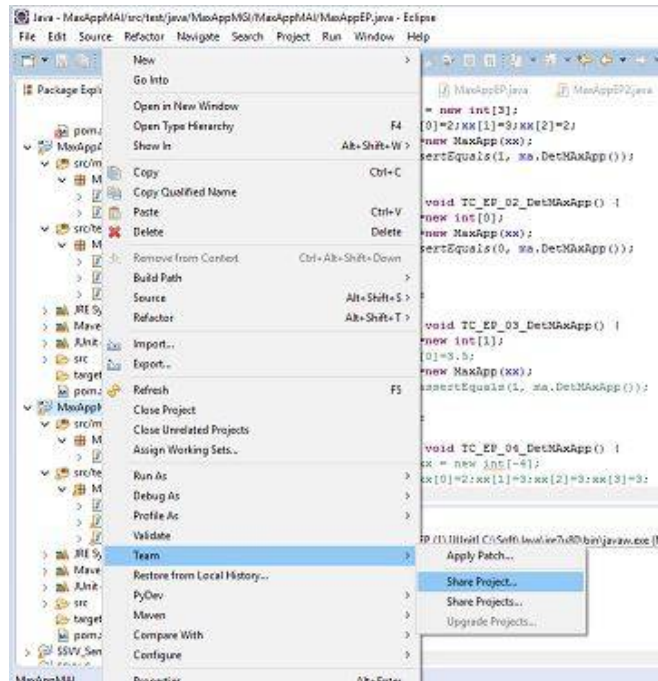


Figure 18.Eclipse – SVN share project

- Select **SVN** ---> **Next**;

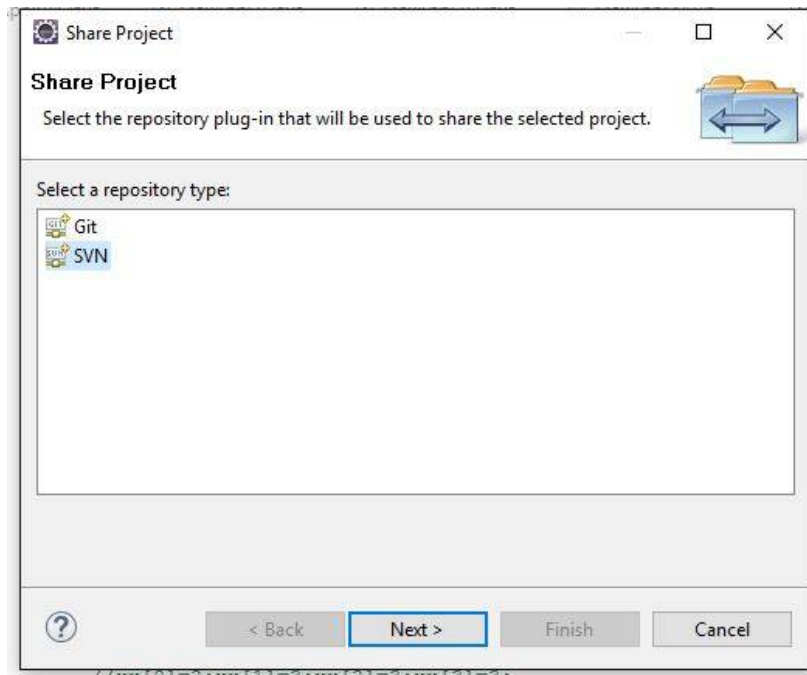


Figure 19.Eclipse – SVN share project

- Add the address: <https://www.assembla.com/spaces/ssvv2016>
- **user:avescan;**
- **password: 123456**
- **select -> Next;**

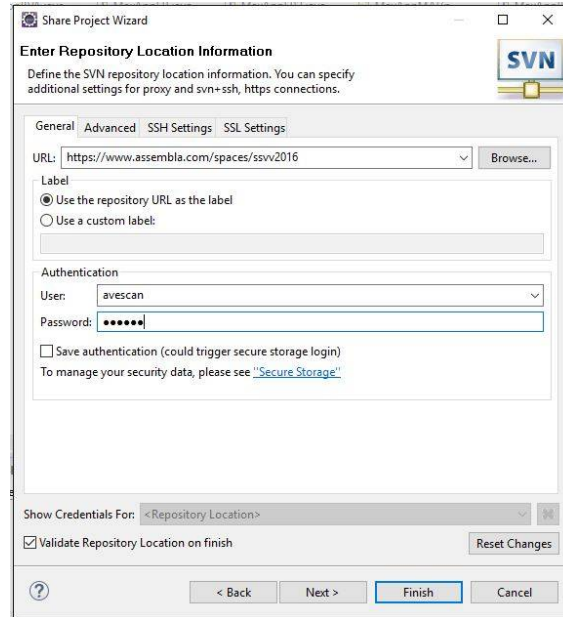


Figure 20.Eclipse – SVN share project – SVN and account

- Select **SimpleMode** ---> **Next;**
- You can add as a comment: *first version;*
- Click Finish to finalize adding the project to SVN.

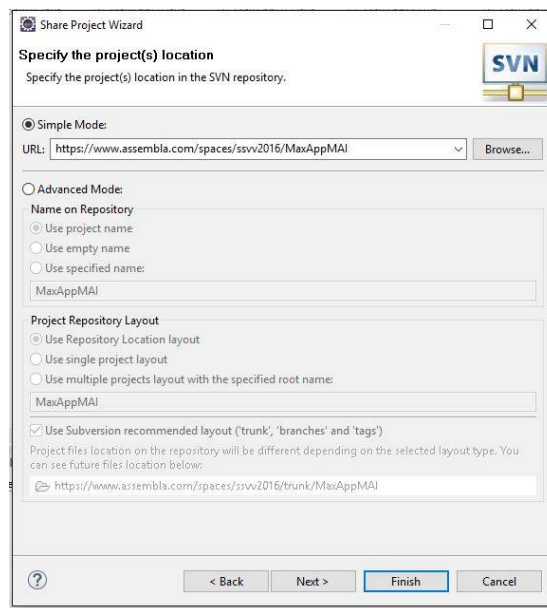


Figure 21.Eclipse – SVN share project – Simple mode

- If you modify the source code in Eclipse, you should add then to the SVN:
  - in **Project Explorer** select the name of the Maven project;
  - Right Click on the Maven project ---> **Team** ---> **Commit**;
- in SVN the name of the project will be identified by the **Artefact Id** given when the Maven project was created.

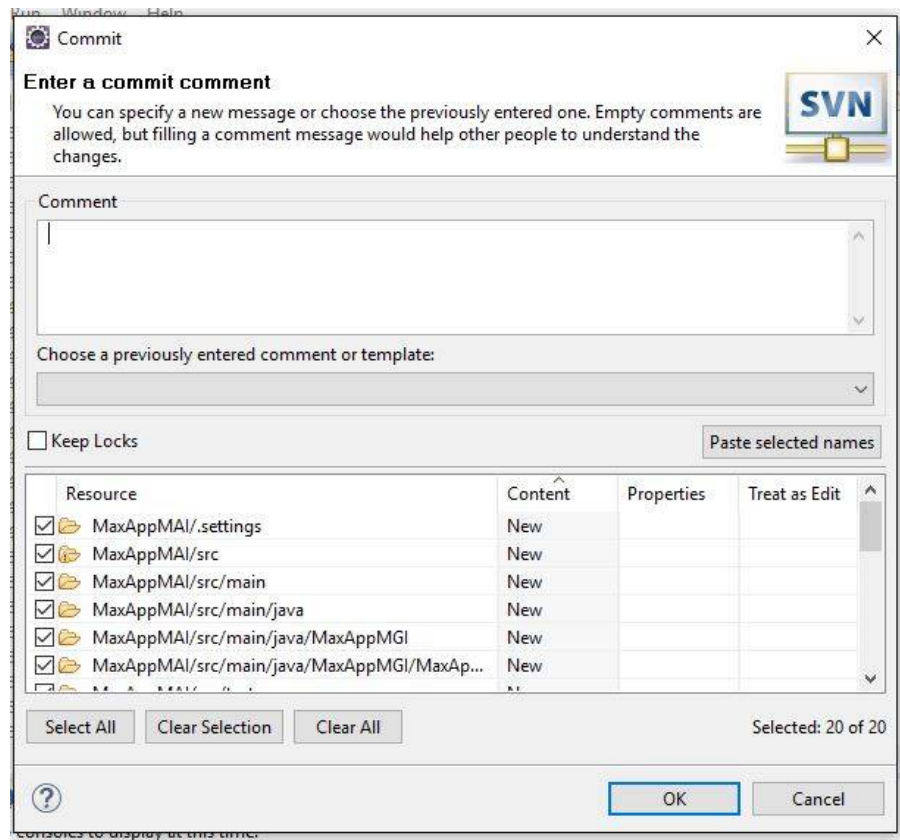


Figure 22. Eclipse – SVN share project – Commit

## 7. Viewing the Maven project in the SVN repository

- Go to <https://www.assembla.com/home>
- **Login** with:
  - **User:** avescan
  - **Password:** 123456
- Select the repository with id: SSVV2016