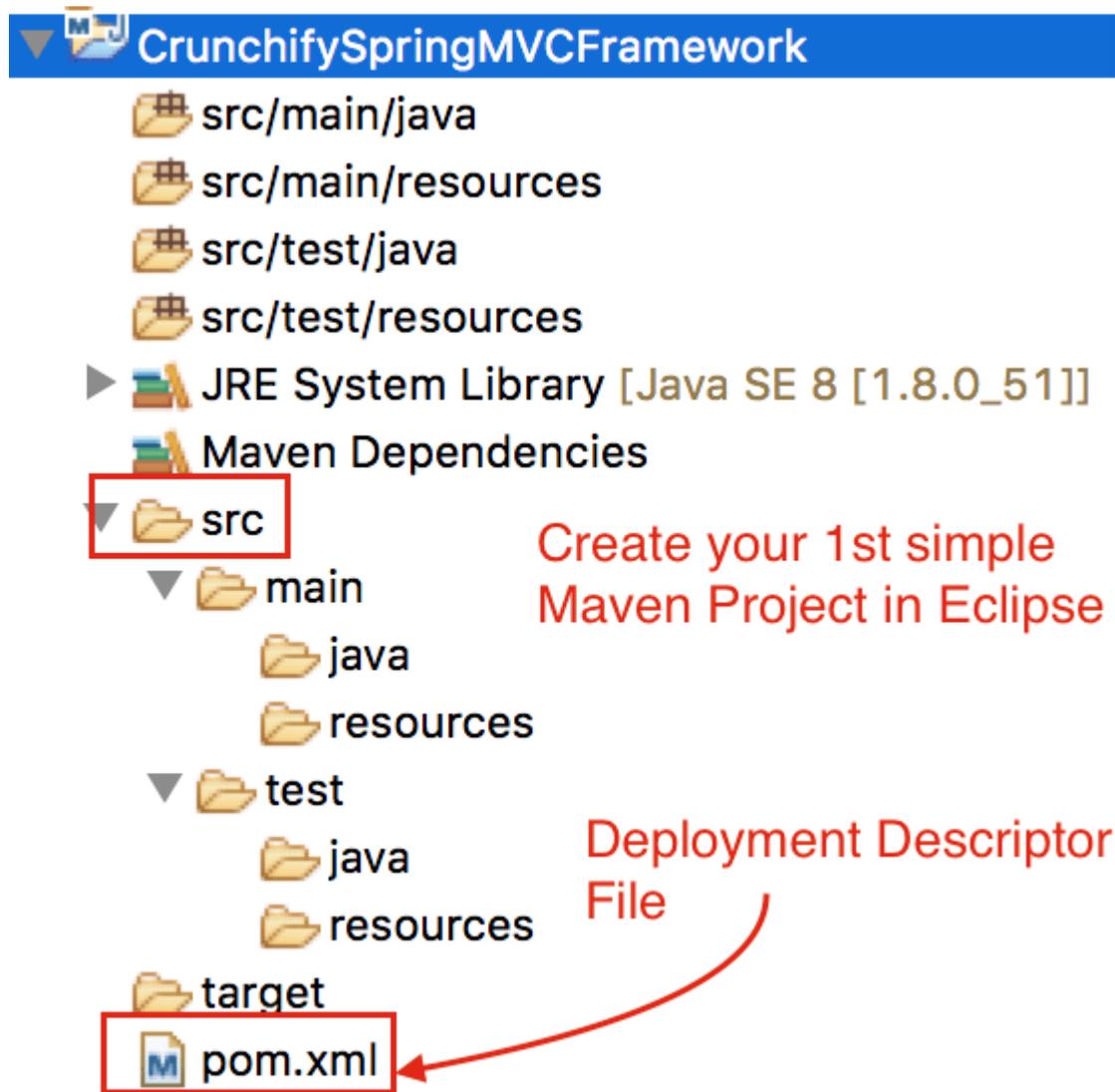


*Maven*TM



Maven: For build automation

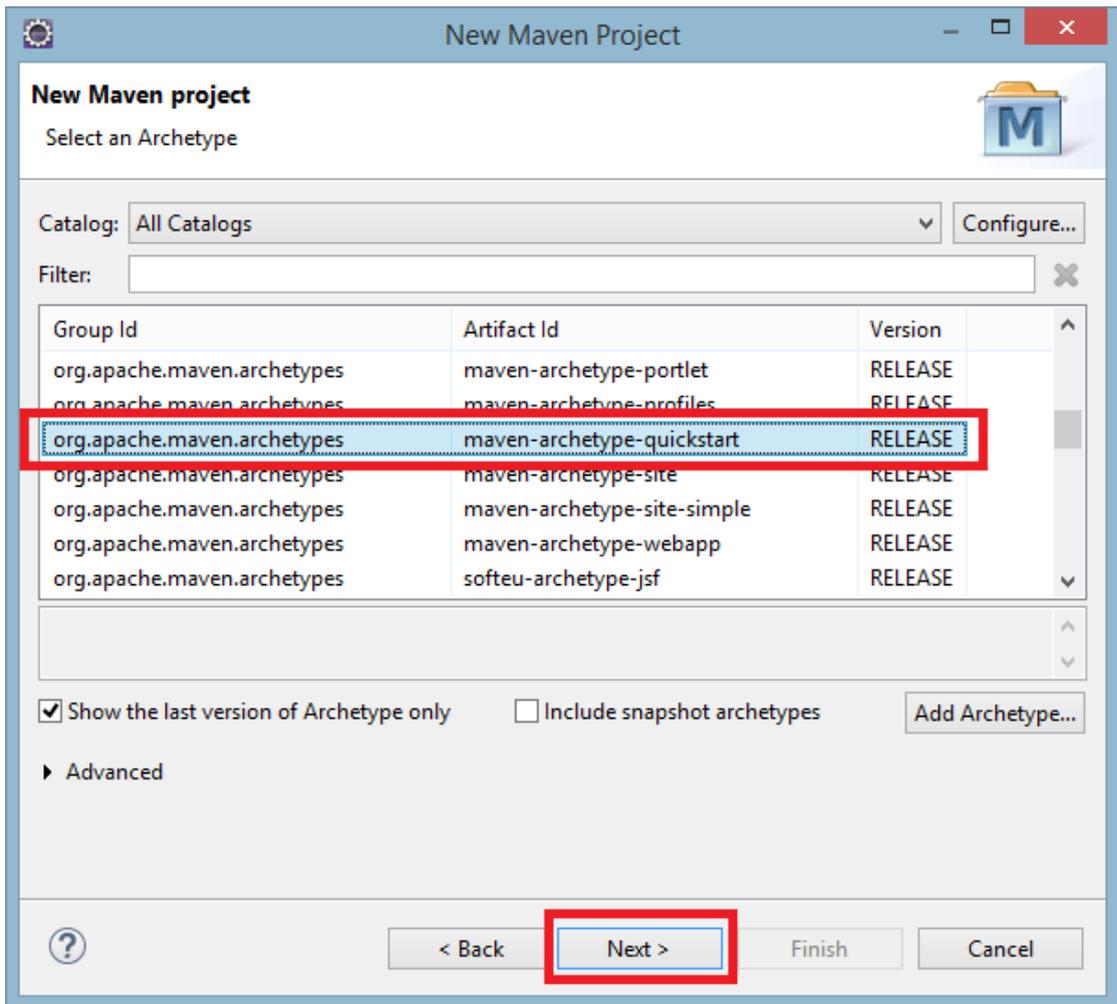
Setting Up Maven in Eclipse



▼ 1. Installing Maven in Eclipse:

- **Eclipse IDE for Java Developers** typically comes with Maven pre-installed. If not:
 1. Open **Eclipse**.
 2. Go to **Help** → **Eclipse Marketplace**.
 3. Search for **Maven Integration for Eclipse** and install it.

▼ 2. Creating a Maven Project in Eclipse:

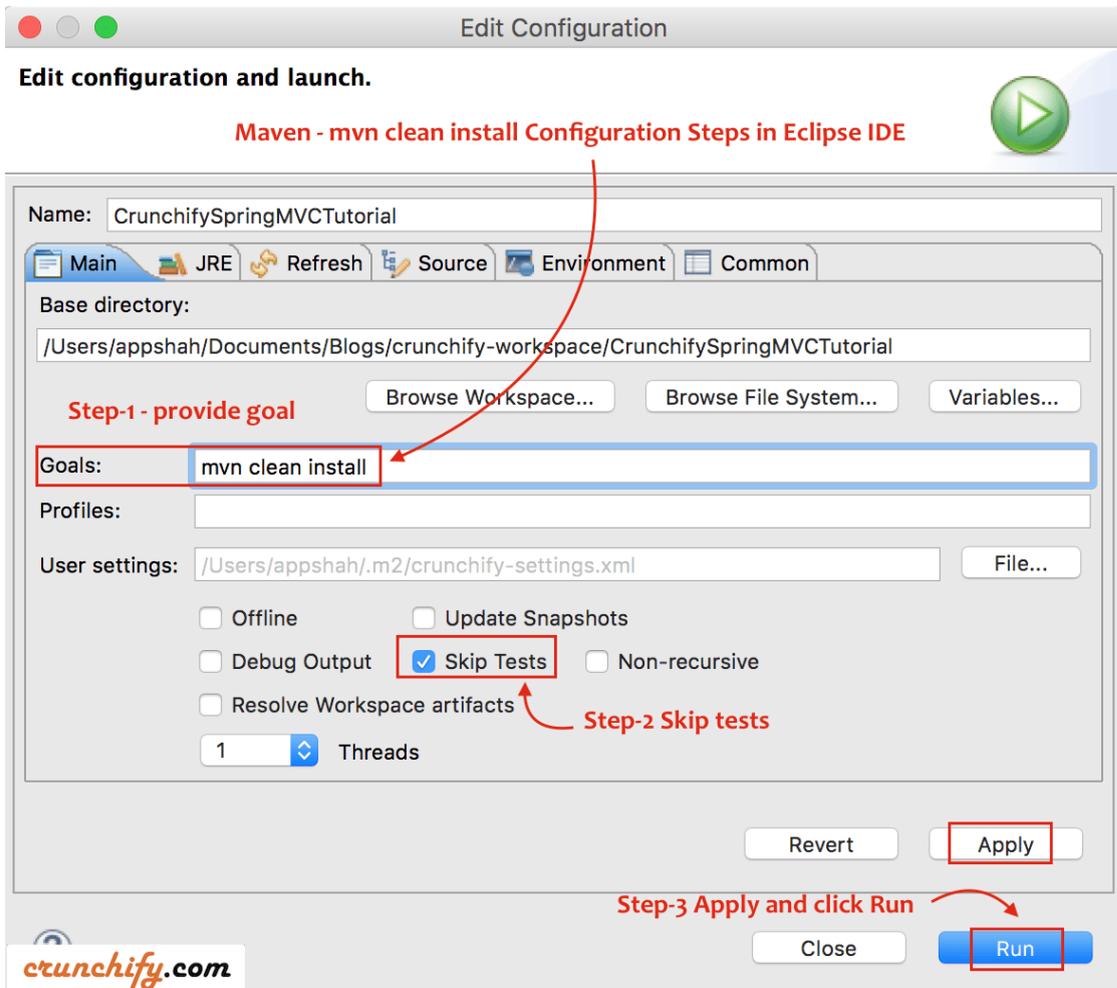


1. **File** → **New** → **Other** → Select **Maven Project**.
2. Check **Create a simple project** (skip the archetype selection), then click **Next**.
3. Provide **Group Id** (e.g., `com.example`) and **Artifact Id** (e.g., `musicFinder`), and click **Finish**.
4. A `pom.xml` file will be generated. This file manages dependencies and build instructions for Maven.

▼ 3. Importing an Existing Maven Project:

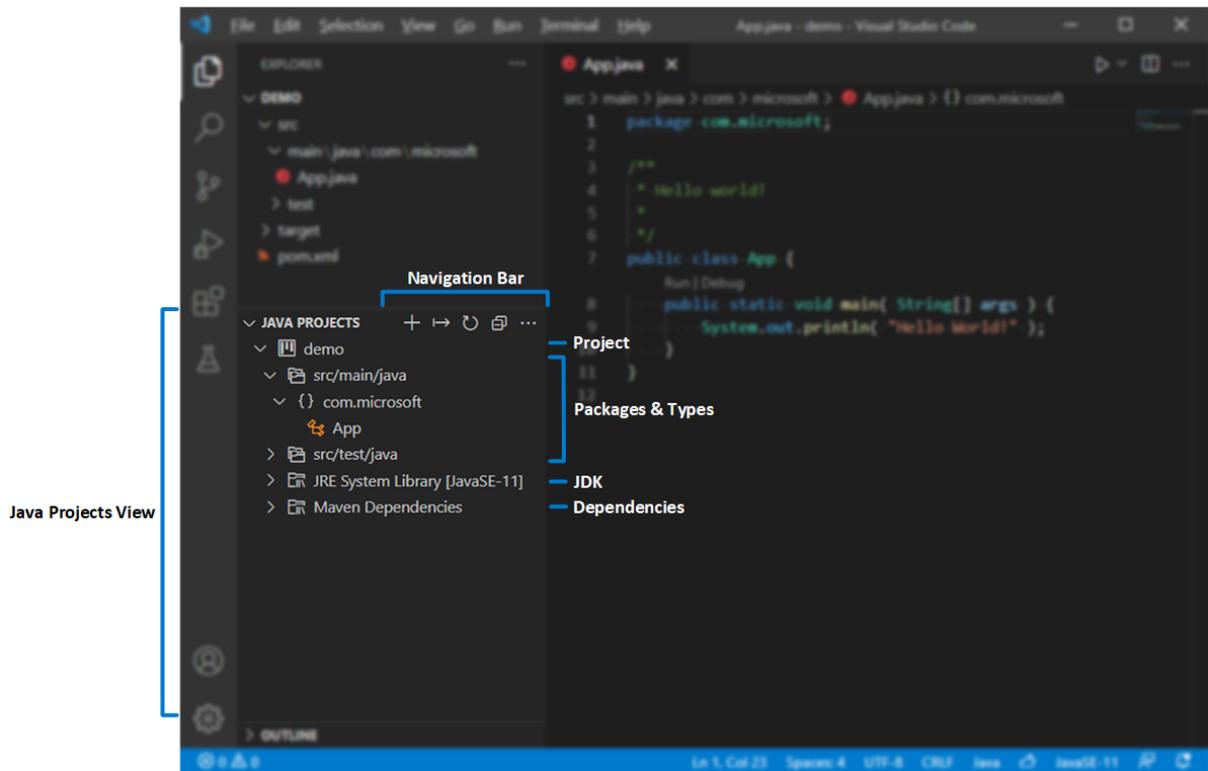
1. **File** → **Import** → **Existing Maven Projects**.
2. Browse and select the folder containing the project, then click **Finish**.

▼ 4. Running a Maven Project in Eclipse:

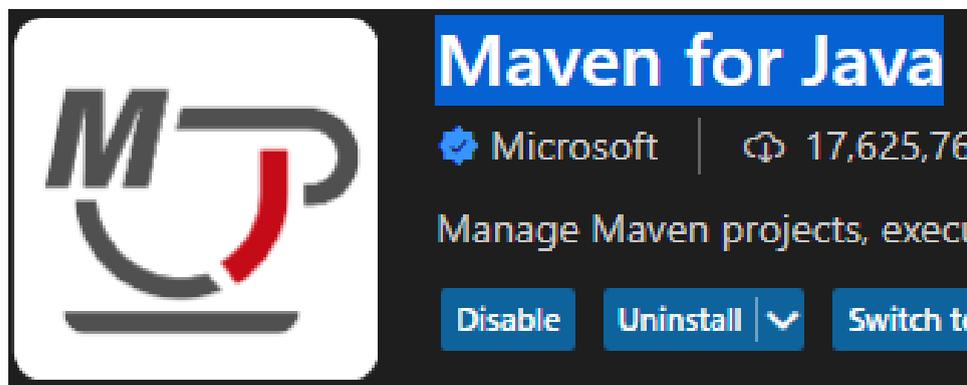


1. Right-click the project in the **Project Explorer**.
2. **Run As** → **Maven Build**.
3. Enter `clean install` as the build goal to clean and install the project.

Setting Up Maven in VS Code

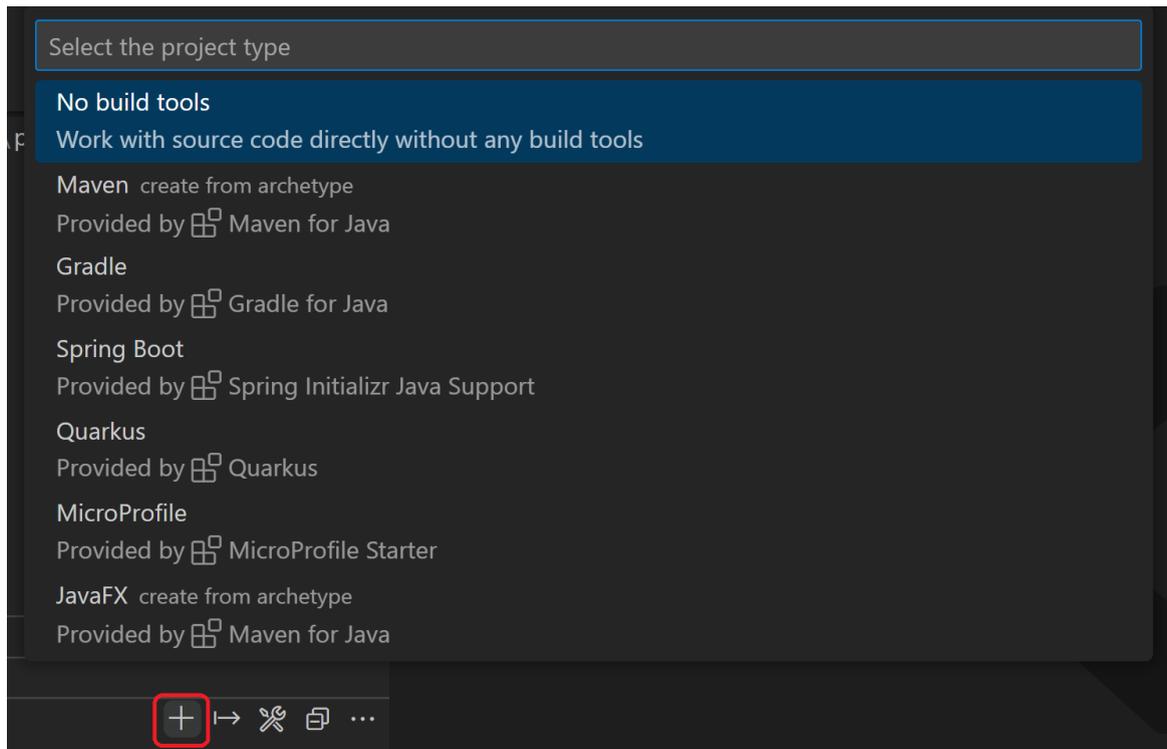


▼ 1. Installing Maven Extension in VS Code:



1. Open **VS Code** and go to the **Extensions** marketplace (or press **Ctrl + Shift + X**).
2. Search for and install the **Maven for Java** extension.
3. Optionally, install **Java Extension Pack** for better Java support.

▼ 2. Creating a Maven Project in VS Code:

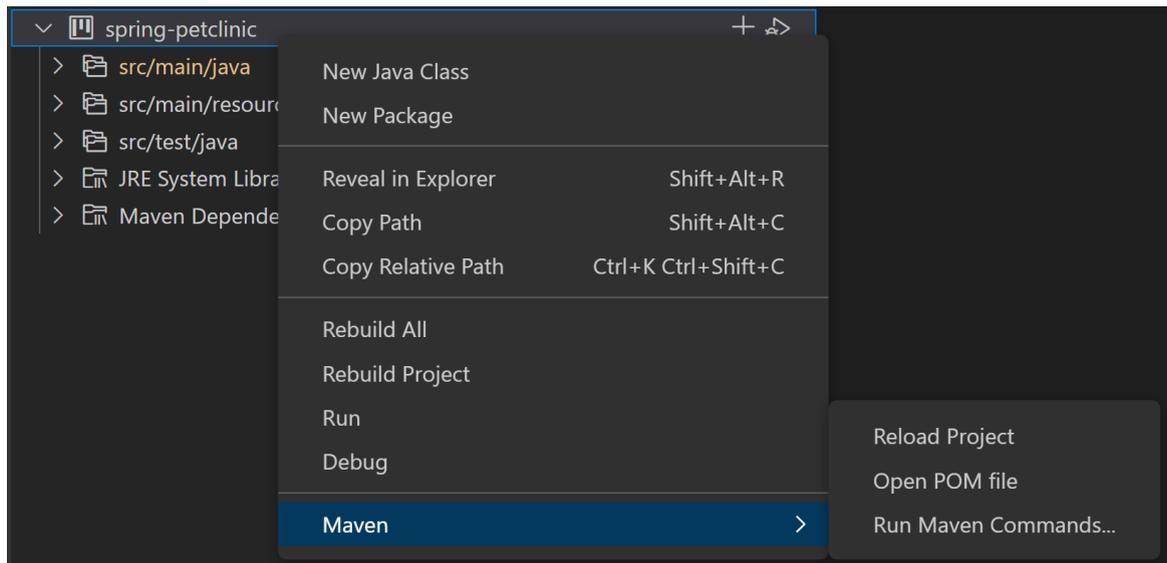


1. Press **F1** to open the command palette, then type **Maven: Create Maven Project**.
2. Select the desired **archetype** or skip for a simple project.
3. Provide **Group Id** (e.g., `com.example`) and **Artifact Id** (e.g., `musicFinder`), then select the directory to create the project.
4. A `pom.xml` file will be generated to manage dependencies.

▼ 3. Importing an Existing Maven Project:

1. Open **VS Code**, click on **File** → **Open Folder**.
2. Select the folder with the Maven project (`pom.xml` will be automatically detected).

▼ 4. Running a Maven Project in VS Code:



1. Open the **Terminal** (`Ctrl + ``) and navigate to the project directory.
2. Run the following Maven command:

```
mvn clean install
```

3. Alternatively, use the **Run button** on top of the `pom.xml` file in VS Code to run the project.

