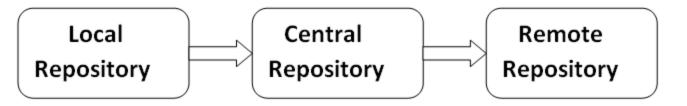
## Maven Repository

A **maven repository** is a directory of packaged JAR file with pom.xml file. Maven searches for dependencies in the repositories. There are 3 types of maven repository:

- 1. Local Repository
- 2. Central Repository
- 3. Remote Repository

Maven searches for the dependencies in the following order:

Local repository then Central repository then Remote repository.

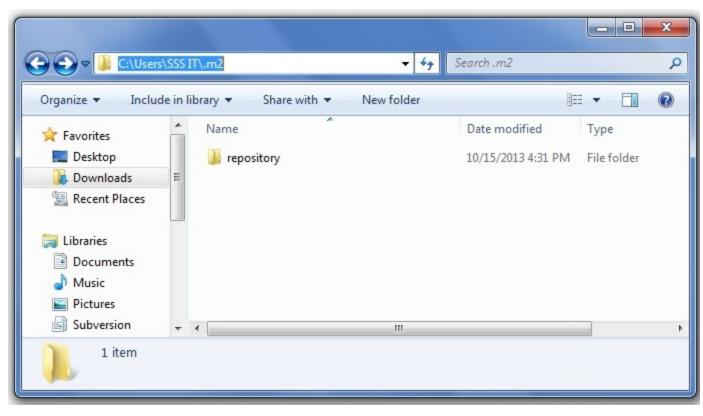


If dependency is not found in these repositories, maven stops processing and throws an error.

## 1) Maven Local Repository

Maven **local repository** is located in your local system. It is created by the maven when you run any maven command.

By default, maven local repository is %USER\_HOME%/.m2 directory. For example: **C:\Users\SSS IT\.m2**.



Update location of Local Repository

settings.xml

We can change the location of maven local repository by changing the **settings.xml** file. It is located in **MAVEN\_HOME/conf/settings.xml**, for example: **E:\apache-maven-3.1.1\conf\settings.xml**.

Let's see the default code of settings.xml file.

Now change the path to local repository. After changing the path of local repository, it will look like this:

```
...

<settings xmlns="http://maven.apache.org/SETTINGS/1.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.0.0 http://maven.apache.1.0.0.xsd">

<localRepository>e:/mavenlocalrepository</localRepository>

...

</settings>
```

As you can see, now the path of local repository is e:/mavenlocalrepository.

## 2) Maven Central Repository

Maven **central repository** is located on the web. It has been created by the apache maven community itself.

The path of central repository is: http://repo1.maven.org/maven2/

The central repository contains a lot of common libraries that can be viewed by this url http://search.maven.org/#browse

## 3) Maven Remote Repository

Maven **remote repository** is located on the web. Most of libraries can be missing from the central repository such as JBoss library etc, so we need to define remote repository in pom.xml file.

Let's see the code to add the jUnit library in pom.xml file.

```
pom.xml
 project xmlns="http://maven.apache.org/POM/4.0.0"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.javatpoint.application1
  <artifactId>my-application1</artifactId>
  <version>1.0</version>
  <packaging>jar</packaging>
  <name>Maven Quick Start Archetype</name>
  <url>http://maven.apache.org</url>
  <dependencies>
    <dependency>
     <groupId>junit
     <artifactId>junit</artifactId>
     <version>4.8.2</version>
     <scope>test</scope>
    </dependency>
  </dependencies>
 </project>
```

You can search any repository from Maven official website **mvnrepository.com**.