

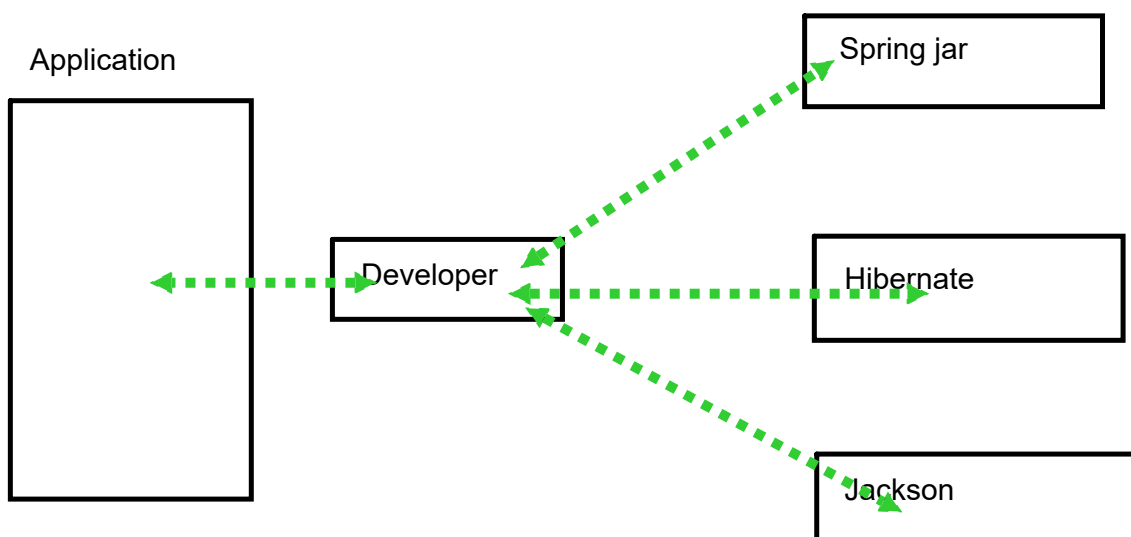
Maven Tool:

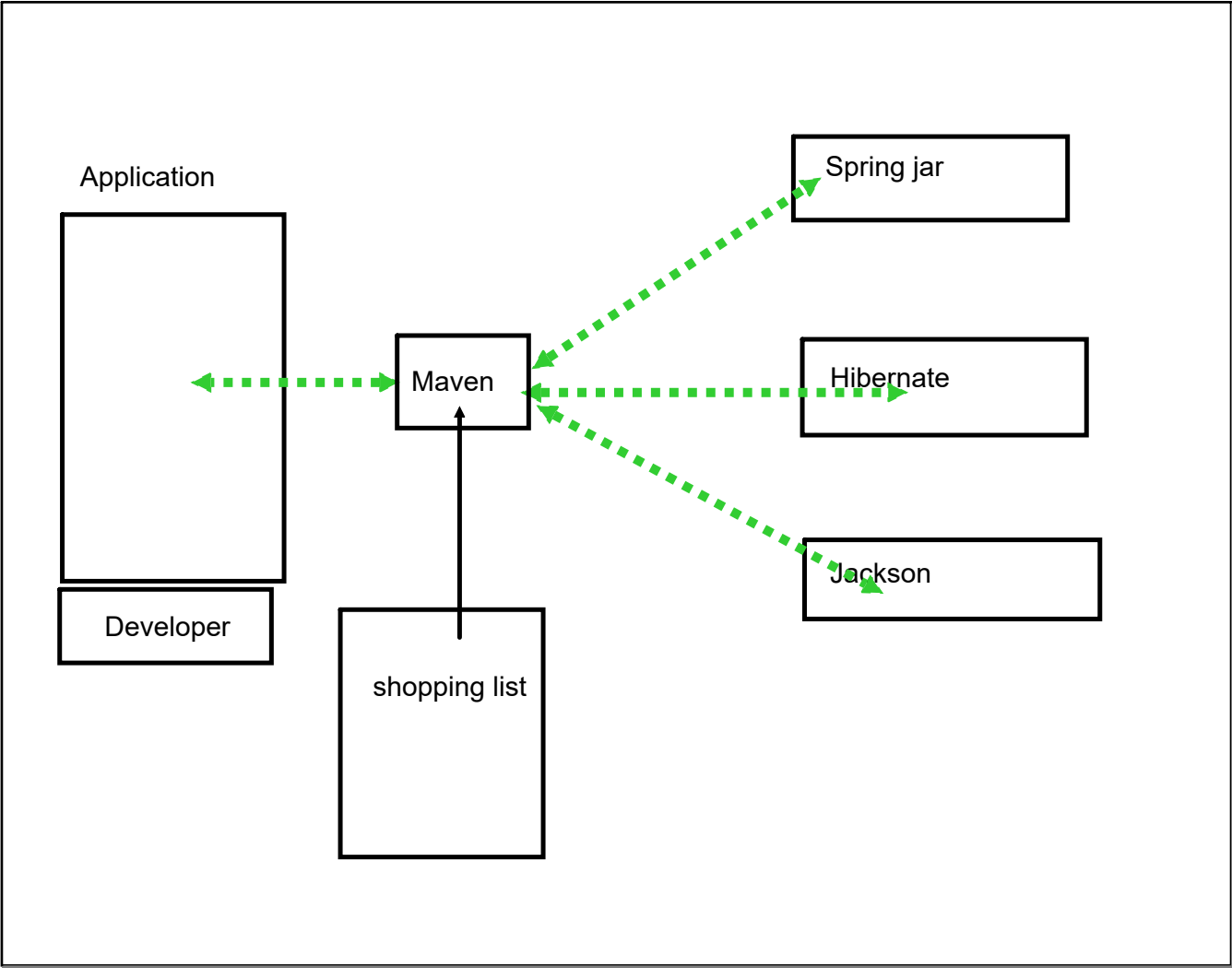
Project management tool

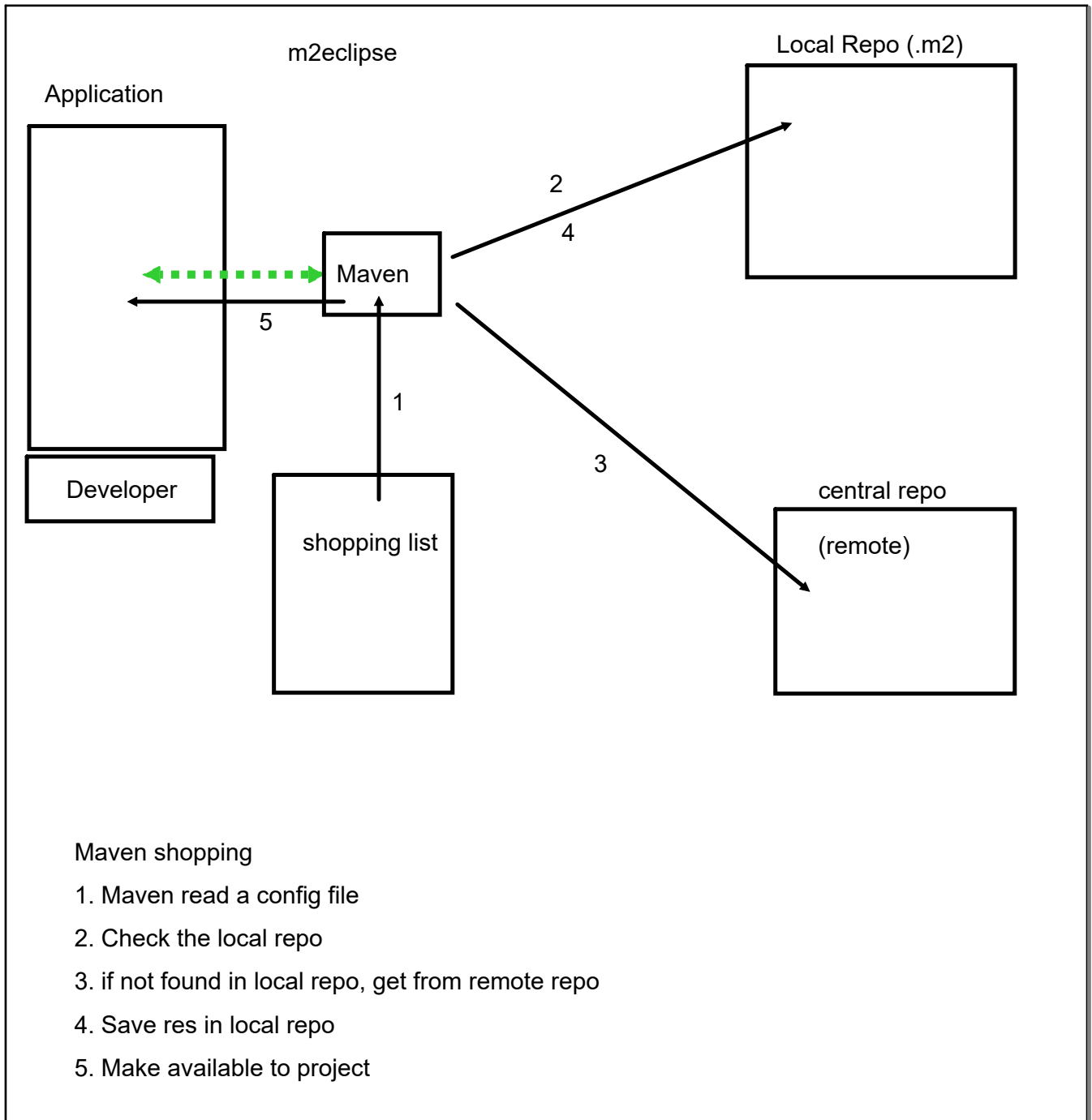
used for build management : project structuring and dependency management

dependency :

Traditional : Developer to download api, integrate, set build path , manage the supporting dependency / version







Project Structure

a standard industry tested structure templates

helps new person to join team

support all major IDEs

eg:

maven web app

src/main/java : java source file

src/main/resources : Properties/config

src/main/webapp : web assets

src/test : Unit testing

target : Home for compiled code

Shopping list : (config file)

POM file : pom.xml

structure of pom.xml

- 4 major section

- => Describe the current project: project name, version, output : jar/war

- => Properties : Runtime env setting : eg : which jvm version

- => Dependency : List of projects we depend on

- => custom config : generate of unit test reports, plugins

Project Coordinates (GAV coordinates)

Maven need these coordinates to identify the res

```
<groupId>org.springframework</groupId>
```

```
<artifactId>spring-context</artifactId>
```

```
<version>5.0.0.RELEASE</version>
```

Group Id : name of company, group, organisation to which project belongs to

ArtifactId : Name of project eg spring.web-mvc

Version : specific version (optional)

Configuring web mvc maven project

1. by default archetype uses JRE 1.5 : need to update to use 1.8
2. need to server runtime : Properties : Buildpath : add server runtime

Configure for spring mvc support (pure java config)

1. add dependency
 - # spring mvc framework
 - # support for dispatcher servlet (servlet-api)
 - # jsp-jstl support : servlet.jsp-api
2. remove web.xml
 - #error : web.xml describes war packaging
 - need to give responsibility to maven
 - need to add maven-war-plugin
3. Error related to dynamic web module
 - Properties: project-facets : Dynamic web module : 4.0
 - else : need to update the config files