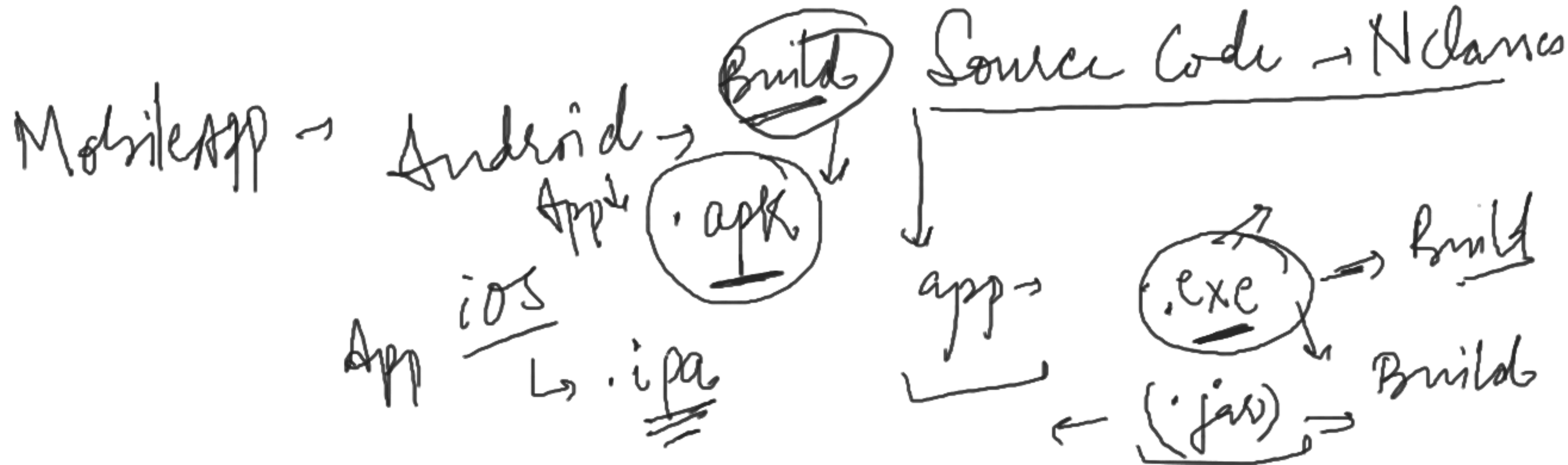
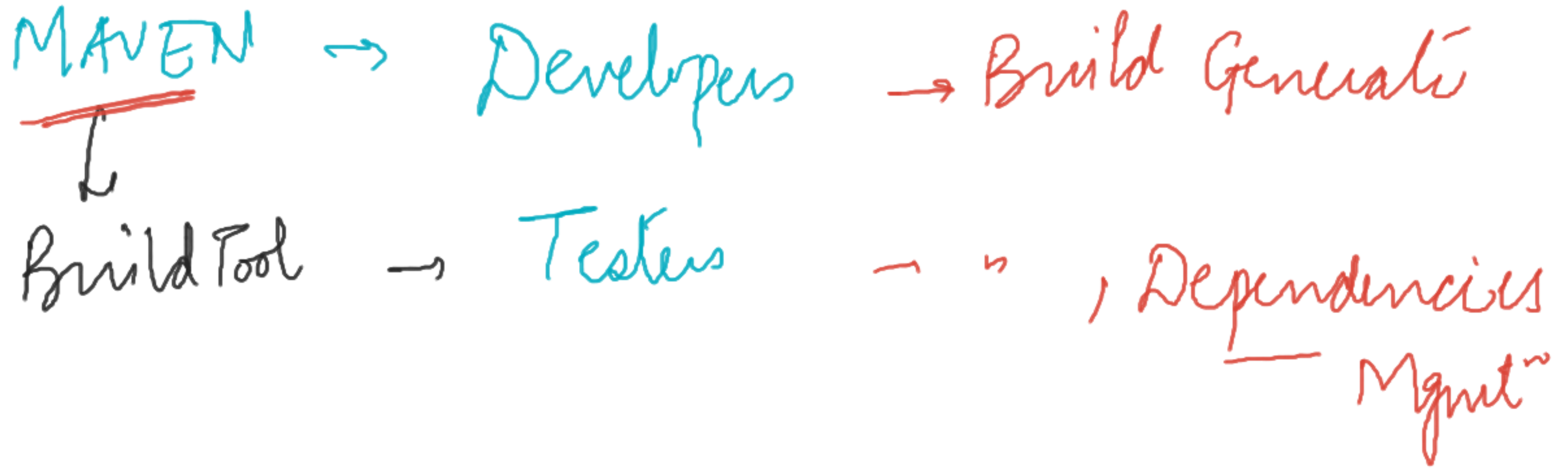


✓✓ Maven → Java Developers, Testers
↓
Build Tool

JAVA Desktop app →





Online/
Global
Repo

[MAVEN Repository →

<https://mvnrepository.com/>

↳
Dependency
libs/jav

```
<!-- https://mvnrepository.com/artifact/org.testng/testng -->  
<dependency>  
  <groupId>org.testng</groupId>  
  <artifactId>testng</artifactId>  
  <version>7.6.1</version>  
  <scope>test</scope>  
</dependency>
```

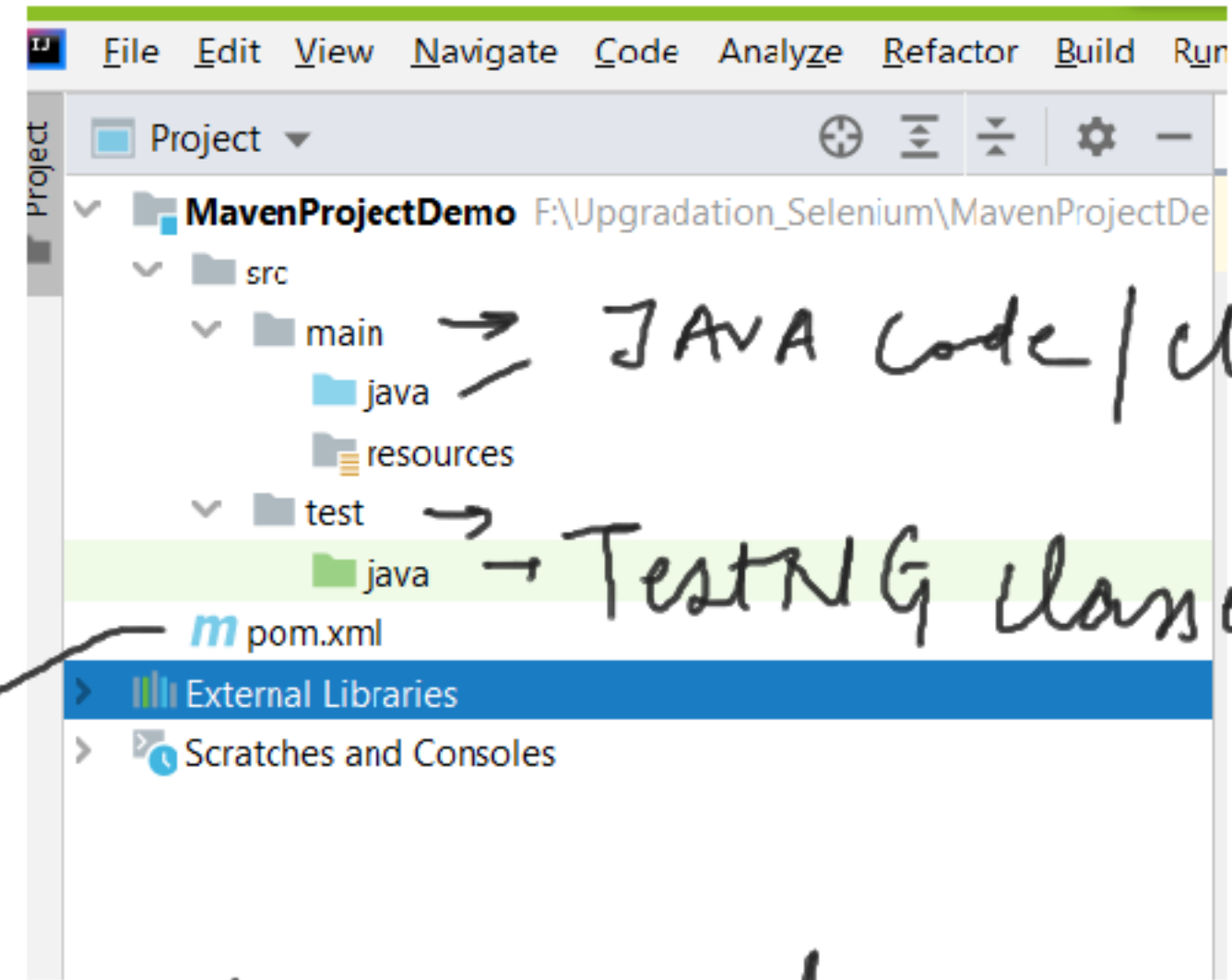
Orgⁿ → HR policies → 10
→ Teams - Dev } Document/Code
→ Testers }

→ Lead → MAIL → 1000
↓

→ Common Server folder/location] Repository

MAVEN project →

folder structure →



project Object Model

→ pom.xml

→ project related info.

→ dependencies.

→ Build / plugins


```
<groupId>org.example</groupId>  
<artifactId>MavenProjectDemo</artifactId>
```

↓
Project Name
↓
packageName

pom.xml → project

project

↳ project info

↳ properties → compiler
- skip

→ plugins

→ dependencies

Global/online repo



Local repo.



maven repository



.m2

C:
\\Users\\<userName>\\.m2

→ .m2 → 4.4.0

→ .m2 - 4.3.0



1. 4.4.0 download

2. 4.3.0

3. 4.4.0

TestNG
Classes } → TestNG.xml

↓
Methods

└─ hit/run

✓ pom.xml →

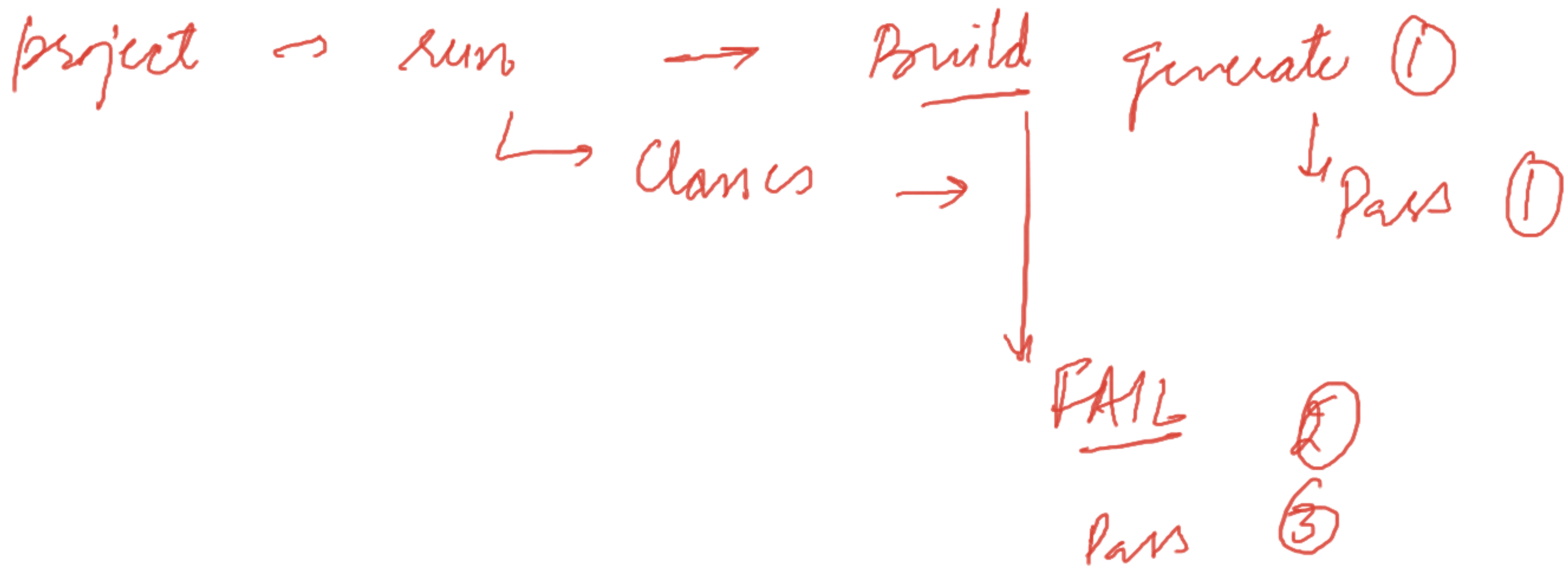
↑
Maven

Maven Surefire plugin -

<https://maven.apache.org/surefire/maven-surefire-plugin/examples/testng.html>

Using Suite XML Files

plugin is used to hit/run the testng.xml through
pom.xml



- ① mvn clean → remove the
Builds / target
folder
- ② mvn test
↓
execute the test cases
- ③ mvn install → it will generate the build.
jar
- Command { mvn → download
Env. variable
path set



methods

Frameworks

sendKeys()

click

dateTime

scrollBy

wait

A Build Lifecycle is Made Up of Phases

Each of these build lifecycles is defined by a different list of build phases, wherein a build phase represents a stage in the lifecycle.

For example, the default lifecycle comprises of the following phases (for a complete list of the lifecycle phases, refer to the Lifecycle Reference):

validate - validate the project is correct and all necessary information is available

compile - compile the source code of the project

test - test the compiled source code using a suitable unit testing framework. These tests should not require the code be packaged or deployed

package - take the compiled code and package it in its distributable format, such as a JAR.

verify - run any checks on results of integration tests to ensure quality criteria are met

install - install the package into the local repository, for use as a dependency in other projects locally

deploy - done in the build environment, copies the final package to the remote repository for sharing with other developers and projects.

Part 2 Maven project creation via cmd

(1) Maven Download (binary.zip)

<https://maven.apache.org/download.cgi?Preferred=ftp://ftp.osuosl.org/pub/apache/>

(2) Set the Env. variable

→ Edit path variable

→ Create New variable

→ set Maven path till bin folder

→ verify maven version - [mvn -version]

(4) Create Maven project

→ mvn archetype:generate

(5) → mvn -version
→ mvn clean

→ mvn test

→ mvn install

→ mvn clean test

→ mvn clean install