Maven

Maven project mainly works based on POM.xml

1. Project Structure
2. POM.xml
   1. Dependencies which downloads 3rd party library jar file
   2. Plugins which contains configurations to run the project

Maven project creates a local maven repo which downloads 3rd party libraries from a remote maven repo. so internet connection is required first time to download.

If any of the 3rd party application version needs to be updated at a later stage, version number just needs to be updated in dependencies xml only

JEKINS

1. CI CD tool
2. Graphical user interface, website

   Description automatically generated
3. Add required 3rd party tools from Plugins – available like git

Steps to create a job

1. Create a new folder then a new Pipeline
2. Create it as ‘Project with Parameter’
3. Add Parameters – String that accepts a value and Boolean which can be used as a checkbox selection parameter
4. Define a variable if u want to store any value into it other than the ones defined as parameters
5. To get value of a variable use them in “” as ${varname} 🡪 “${varname}”
6. Defined parameters are by default variables in groovy box script
7. To execute something from commandline use bat command
8. We can set a particular stage to be o[tional depending on a condition using ‘expression’

When

{

Expression

{

give condition here

}

}

Only if the condition given above is satisfied it will execute the steps of that stage.

1. If a variable needs to be used globally make it an environment variable and can be referred as env.varname

Selenium (Started by Jason Heggins in 2004) SeleniumHQ website (Documentation)

Has 4 components

1. Selenium IDE – plugin to record and playback. Firefox addon
2. Selenium RC – used to execute script written in any language – not supported any more
3. Selenium Web Driver – API used to send commands directly to browser. API interface that consists of all methods that can be invoked on a browser. All browser class will implememnt this interface
4. Selenium Grid – a tool to run tests on multiple platforms & browsers

Mysql cmds

1. Version mysql --version
2. TO extablish connectionMysql -u root -p

P/w on lab is always root

1. To show existing dbs -- show databases;
2. Create a DB – create database Employee;
3. To work on a particular db: use <tablename> use employee;
4. Create a table in DB: Create Table Employee\_info(Column1 varchar(55),Column2 datatype(precision)
5. To check tables in a db – show tables;