Subject:

- Installasi Maven
- Build Tools

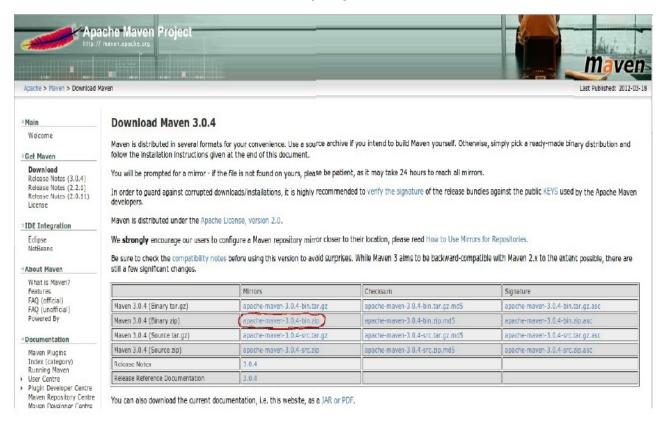
Objective:

- Memahami Maven
- Memahami Build Tools

Tugas Praktikum Sesi 1

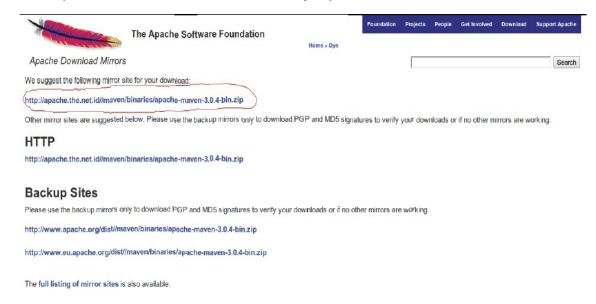
Latihan 1: Installasi Maven

Langkah – Langkah Installasi Maven : 1. Langkah pertama adalah download maven terlebih dahulu disini : http://maven.apache.org/download.html , download file Maven 3.0.4 (Binary zip) yang ada di kolom mirror => klik.

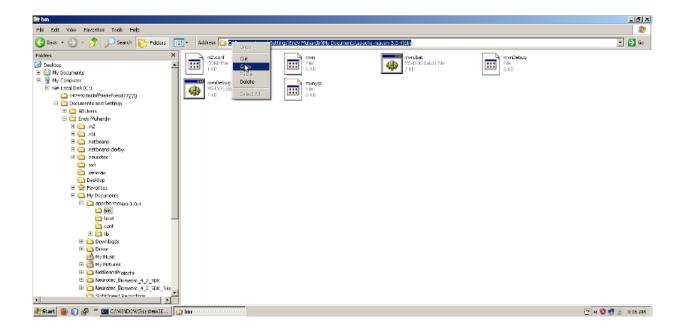


2 Setelah file Maven 3.0.4 (Binary zip) di klik, maka keluar browse untuk mendownload file Maven 3.0.4 (Binary zip).

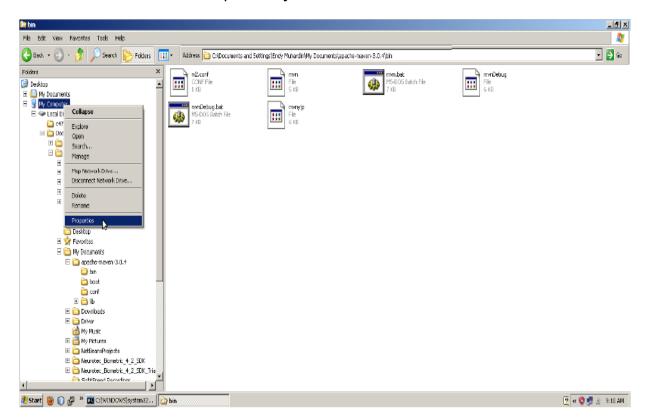
3 Setelah keluar browse untuk mendownload file Maven 3.0.4 (Binary zip), lalu klik link: http://apache.the.net.id//maven/binaries/apachemaven- 3.0.4-bin.zip. Maka file Maven 3.0.4 (Binary zip) terdownload.

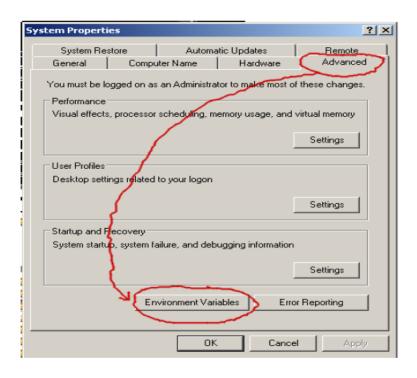


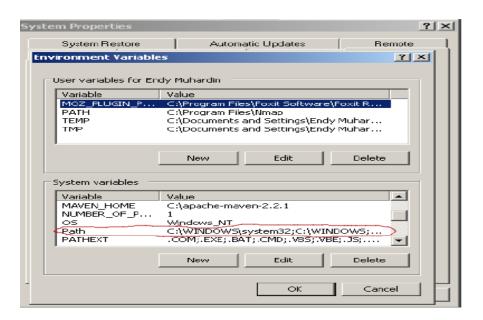
- 4 Setelah proses download selesai, selanjutnya extract file yang sudah anda download.
- 5 Setelah file Maven di extract, lalu masuk ke folder maven hasil extract dan masuk ke folder bin : -maven-3.0.4.
- 6 Setelah anda masuk folder bin, copy address bar ke dalam path dengan cara :
- copy address bar, misalnya: C:\Documents and Settings\EndyMuhardin\My Documents\apache-maven-3.0.4\bin.



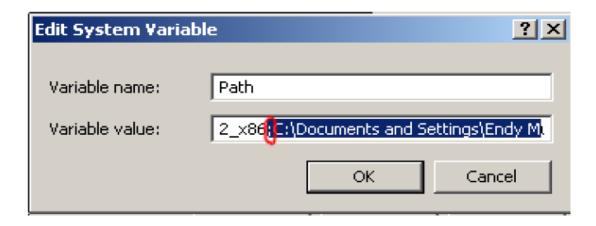
Setelah address bar di copy, Klik kanan my computer => Properties => pilih tab Advanced => Klik Environment Variables (keluar lookup Environment Variables) => Klik 2x Path yang ada pada kolom System Variables (keluar lookup edit system variable).



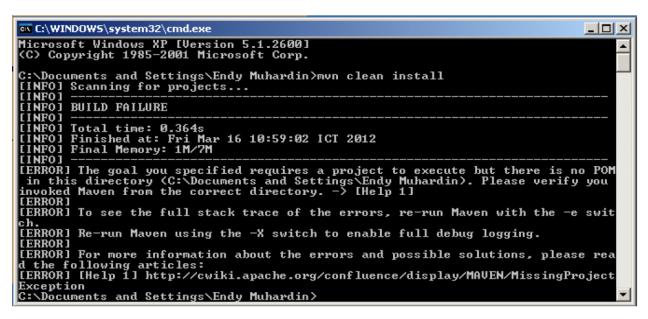




 Edit variable value dengan cara tidak menghapus variable value yang ada, lalu tambahkan tanda penghubung (;) titik koma pada baris paling belakang, lalu paste address bar yang anda copy tadi di belakang (;).



- Setelah address bar sudah di copy pada Path, Lalu Klik OK (edit system variable) => Klik OK (environment variables) => Klik OK (System Properties) => Restart komputer anda.
- 7 Setelah komputer sudah hidup kembali, buka comand prompt, lalu ketik : mvn clean install , jika berhasil akan keluar seperti dibawah ini :



8 Jika hasil seperti gambar di atas keluar, maka Installasi Maven selesai.

Latihan 2: Build Tools (pembuatan project sederhana) 1 Ketikkan perintah dibawah ini untuk membuat sebuah project dari

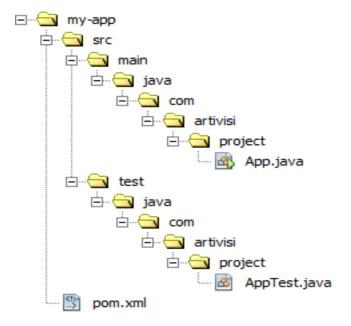
archetype:

mvn archetype:create -DgroupId=com.artivisi.project -DartifactId=my-app

Jika berhasil akan muncul seperti di bawah ini : 2

C:\Documents and Settings\Endy Muhardin>mvn archetype:create
-DgroupId=com.artivisi.project -DartifactId=my-app
[INFO] Scanning for projects
[INFO]
[INFO]
[INFO] Building Maven Stub Project (No POM) 1
[INFO]
[INFO]
[INFO] maven-archetype-plugin:2.1:create (default-cli) @ standalone-pom
[WARNING] This goal is deprecated. Please use mvn archetype:generate instead
[INFO] Defaulting package to group ID: com.artivisi.project
Downloading:
http://repo.maven.apache.org/maven2/org/apache/maven/archetypes/mav
en-archetype-quickstart/maven-metadata.xml
Downloaded:
http://repo.maven.apache.org/maven2/org/apache/maven/archetypes/mavenarchet
ypė-
quickstart/maven-metadata.xml (531 B at 0.2 KB/sec)
[INFO]
[INFO] Using following parameters for creating project from Old (1.x)
Archetype:maven-archetype quickstart:RELEASE
[INFO]
[INFO] Parameter: groupId, Value: com.artivisi.project
[INFO] Parameter: packageName, Value: com.artivisi.project
[INFO] Parameter: package, Value: com.artivisi.project
[INFO] Parameter: artifactId, Value: my-app
[INFO] Parameter: basedir, Value: C:\Documents and Settings\Endy Muhardin
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: C:\Documents and
Settings\Endy Muhardin\my-app
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 5.055s
[INFO] Finished at: Mon Mar 19 09:29:57 ICT 2012
[INFO] Final Memory: 7M/17M
[INFO]
C:\Documents and Settings\Endy Muhardin>_

3 Jika tidak ada kesalahan, maka pada komputer akan terbuat sebuah direktori dengan struktur seperti gambar dibawah ini :



- 4 Untuk menjalankannya, masuk ke direktori my-app dulu, dengan perintah cd my-app.
- 5 lalu jalankan perintah seperti dibawah ini, untuk melakukan mvn clean install.
- 6 Jika berhasil akan muncul seperti di bawah ini :

```
C:\Documents and Settings\Endy Muhardin\my-app\mvn clean install
[INFO] Scanning for projects...
[INFO]
[INFO] Scanning for projects...
[INFO]
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] Bownloading: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.10/maven-surefire-plugin-2.10.pom
Downloaded: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.10/maven-surefire-plugin-2.10.jar
Downloading: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.10/maven-surefire-plugin-2.10.jar
Downloaded: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.3.2/maven-jar-plugin-2.3.2.pom
Downloading: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.3.2/maven-jar-plugin-2.3.2.pom
Downloading: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.3.2/maven-jar-plugin-2.3.2.pom
Downloading: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/2.3.2/maven-jar-plugin-2.3.2.jar
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Downloaded: http://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-gumplugin/plugins/maven-gumplugin/plugins/maven-gumplugin/plugins/maven-gumplugi
```

- 7 Setelah proses clean install berhasil, selanjutnya ketik perintah di bawah ini : mvn compile; mvn exec:java -Dexec.mainClass=com.artivisi.project.App
- 8 Jika berhasil, maka akan muncul seperti dibawah ini :