

Instructor Notes:



Instructor Notes:

Course Goals and Non Goals



- Course Goals
 - Enabling Java/JEE projects to be build efficiently
 - To understand PMD Tool with Eclipse
- Course Non Goals
 - Generating reports and continuous integration of projects using Maven

Instructor Notes:

Pre-requisites



Course Pre-reqs:

- Learners should possess the following Technical Skills:
 - Java
 - Servlets
 - JSP
 - XML
 - Working knowledge in Eclipse Luna
- Lab should have the following Software Requirements:
 - Java 8
 - Eclipse Luna With Maven Plugin

Instructor Notes:

Intended Audience

- Developers.



Instructor Notes:

Day Wise Schedule



- Day 0.5
 - Lesson 1: Introduction to Maven and Benefits
 - Lesson 2: Maven Basics
 - Lesson 3: Getting started with Maven
 - Lesson 4: Creating applications using Maven in Eclipse Luna

Instructor Notes:

Table of Contents



- Lesson 1: Introduction to Maven
 - 1.1. Maven Overview
 - 1.2. Maven's Principles
 - 1.3. Benefits of Maven
- Lesson 2: Maven Basics
 - 2.1. POM
 - 2.2. Standard Directory Layout
 - 2.3. Plugins
 - 2.4. Build Life Cycle
 - 2.5. Dependency Management
 - 2.6. Resolving Dependency Conflicts
 - 2.7. Repositories

Instructor Notes:

Table of Contents



- Lesson 3: Getting started with Maven
 - 3.1. Installation and setup Maven
 - 3.2. Creating your First Project using Maven Commands
- Lesson 4: Creating Applications using Maven
 - 4.1. Testing your Application
 - 4.2. Setting Maven in Eclipse Environment
 - 4.3. Generating Java Projects using Maven in Eclipse Luna
 - 4.4. Creating Web application projects using Maven

Instructor Notes:

References



- Books
 - Apache Maven2 Effective Implementation by Maria Odea Ching and Brett Porter.
 - Better Builds with Maven by Vincent Massol and Jason van Zyl
 - The Maven Handbook by Tim O'Brien, Stuart McCulloch and Brian Demers.(Sonatype)
 - Apache Maven 3.0 Cookbook by Srirangan

Instructor Notes:

References



- Websites

- <http://www.maven.apache.org>
- Maven 2 Plugins Project
- <http://mojo.codehaus.org/>
- <http://maven.apache.org/plugins/index.html>
- <http://pmd.sourceforge.net/>

- Popular Repository

- <http://repo1.maven.org/maven2/>

- Repository for Jboss

- <http://repository.jboss.org/maven2>

Instructor Notes:

Other Parallel Technology Areas



- Ant
- Gradle
- Buildr