Developer WorkBench

People matter, results count.

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Document History

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
21/11/2011	1.0	Maven-3.0	Rathnajothi Perumalsamy	Content Creation
16/05/2016	1.1	Maven-3.3.9	Zainab	Modified as per TOC for ELTP

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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

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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
  - pmd-eclipse-site-3.2.3.v200712041040.zip
    - Can be downloaded from http://pmd.sourceforge.net/index.html

Intended Audience

- Developers.

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Day Wise Schedule

- Day 1
  - 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
  - Lesson 5:PMD Tool

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- 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

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- 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

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- Lesson 5: PMD
  - 5.1: What is PMD?
  - 5.2: PMD Rule Sets
  - 5.3: PMD Usage
  - 5.4: Integration with IDE
  - 5.5: PMD in Action
  - 5.6: Customizing PMD

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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

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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

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Other Parallel Technology Areas

- Ant
- Gradle
- Buildr