

# dotCMS Java Developer Training Agenda

## Day 1 (9AM-4PM)

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1. Introductions and Agenda Overview
2. dotCMS Technology and Architecture
  - a. General Philosophy of dotCMS
  - b. Libraries and Technology used
  - c. Legacy VS New Code
3. dotCMS Model and Concepts
  - a. Frontend VS Backend
  - b. HTML Pages
  - c. Templates
  - d. Containers
  - e. Content
  - f. Relations between concepts
  - g. Velocity Objects and How they Parse
4. Key Database Concepts
  - a. Philosophy Regarding the DB
  - b. Key Database Tables
  - c. How Versions work (Inodes/Identifiers)

## Break for Lunch (12PM-1PM)

5. Setting Up Development Environment
  - a. Prerequisites
    - i. Downloading dotCMS code
    - ii. Database Server Installed
    - iii. Java Installed
    - iv. Ant Installed
    - v. Git Installed (optional)
  - b. Process
    - i. Pull Code
    - ii. Build Code
    - iii. Create New Database
    - iv. Point Build to New Database
    - v. Run
  - c. Assignment: Setup Running dotCMS Server on Personal Machine

6. Setting Up Eclipse Environment
  - a. Process
  - b. Assignment: Setup and Debug dotCMS in Eclipse
  
7. Extension Point Concepts
  - a. Viewtools
  - b. Actionlets
  - c. Portlet
  - d. Content Hooks
  
8. Questions and Answers

**Day 2 (9AM-4PM)**

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9. Static Plugins
  - a. Potencial Uses
    - i. Configuration Settings
    - ii. Velocity
    - iii. ViewTools
    - iv. RESTful Interfaces - DWR / Jersey
    - v. Portlet
    - vi. Struts
    - vii. Spring
    - viii. TinyMCE Configuration
  - b. Directory Layout Explained
    - i. conf
    - ii. jsp
    - iii. lib
    - iv. ROOT
    - v. src
  - c. Assignment: Deploy Configuration Plugin
    - i. All of your previous config changes should be moved into plugin (i.e. server.xml, ROOT.xml, and log4j.xml)
    - ii. Disable ClickStream Tracking
    - iii. Deploy Plugin and Verify Results
  - d. Assignment: Deploy Hello World Plugin in Eclipse

**Break for Lunch (12PM-1PM)**

10. Coding in dotCMS Infrastructure
  - a. Documentation Site
  - b. APIs
  - c. dotConnect
  - d. HibernateUtils
  - e. Cache
  - f. ElasticSearch
  
9. Where to Go From Here
  - a. Support
  - b. Google Group
  - c. IRC
  - d. GitHub
  - e. Email

10. Questions and Answers