dotCMS Java Developer Training Agenda

Day 1 (9AM-4PM)

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)

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