The Nuxeo Way

Building a world-class ECM platform, the open source way

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Tuesday, January 3, 2012
Welcome!
Bienvenue!
Bine ați venit!
Bienvenidos!

Herzlich willkommen!
Välkommen!
Degemer mad!
Welkom!

NUXEO DEV DAY 2008

Tuesday, January 3, 2012
A Bit of History

- Company started in 2000
- 2002-2005: Zope-based CPS project
- 2005: First Eclipse RCP based project
- 2005: Zope/Java hybrid: CPS4
- 2006-now: Full switch to Java
Our Original Goals

• Address the full **ECM scope**
  • Initial focus on Document Management
  • Architecture must be extensible and modular

• Enable and sustain the **Ecosystem**
  • Easy to work with, design for participation
Our Original Vision

• Don't reinvent the wheel
  • Leverage existing standards, work on new ones (ex: JCR2, CMIS)
  • Build on proven open source libraries and components (JBoss, Apache, Sun, Eclipse)

• Use a robust software engineering process
  • Make it transparent for our community
Lesson Learned

• Zope Era
  • Value of components-based architectures
  • Basics of ECM
• Eclipse
  • OSGi and extension points
• Java Era
  • Value of standards (Java EE, additional JSRs, OSGi)
  • With proper tools, you can be as productive and have better quality w/ Java 5 than w/ Python
Process and Tools
Process Goals

• Must enable the participations of third party contributors (partners, community)
• Must improve synchronisation between custom developments and open source projects
• Agile development practices (XP, TDD) already used at Nuxeo since 2001 or so
• Must complement them with simple, efficient and scalable project management practices
Scrum
TDD and Continuous Integration

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<th>Build</th>
<th>Date</th>
<th>Status</th>
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<td>?</td>
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Tools

• Mercurial
  • Distributed SCM rules!

• Maven
  • Dependency mngt, build, packaging, releasing

• Hudson
  • Continuous integration

• Jira
  • Bug / task tracking, Scrum iteration backlogs
More Tools

• IDEs
  • Eclipse mostly, should also support NetBeans and IDEA

• Testing
  • JUnit, Selenium

• Static code analysis
  • FindBugs, IDEA inspections, Checkstyle, Enerjy

• Various profilers and debuggers
  • JXInsight, YourKit
Where do we go from here?
Driving Forces

• Market needs
  • Enterprise 2.0 collaboration, move to the cloud, etc.
• Developers feedback
  • First developer survey
• R&D
  • Several starting projects
First Developer Survey

• From 12 Nov. to 29 Nov. 2008
• 73 answers from the Community
  • Mostly technical people
  • Thanks to everyone who took some time to answer the poll!
• Overal satisfaction: 3.8 / 5 :)
Strongest Points

• Ease of installation: 4.3 / 5
• Breadth of functionality: 4.3 / 5
• Standards support: 4.2 / 5
Areas of Improvement

• Usability of default interface: 3.2 / 5
• Documentation: 3.1 / 5
Most Important Use Cases for You

• Document management: 100%
• Search: 100%
• Records management: 95%
• Collaboration: 87%
• Workflow: 83%
What We’ve Done Best

• Choice of technologies: 4.3 / 5
• Conceptual model: 4.1 / 5
• Architecture (plugins, ext. points): 3.9 / 5
• API: 3.5 / 5
Needs More Work

• Ease and speed of development: 2.9 / 5
• Tools support: 2.9 / 5
• Developer documentation: 2.9 / 5
Your Preferred Deployment Platform

• Open source Java EE app servers:
  • JBoss: 81%
  • GlassFish: 64%

• Lightweight web containers:
  • Jetty: 45%
  • Tomcat (alone): 40%

• Proprietary app servers:
  • Oracle, WebSphere, WebLo: ~10%
Your Preferred Database

- PostgreSQL: 83%
- MySQL: 56%
- Oracle: 37%
- MS-SQL: 15%
(Cooperative) R&D Projects

• SCRIBO (System@tic competitiveness cluster)
  - Semantic annotations, ontologies
• Nuxeo 2010 (Eureka), w/ Yerbabuena
  - Infrastructure work: Runtime and Core improvements
  - Storage, synchronisation, mobility, semantic tech...
• IKS (European Project, FP7)
  - Semantic technologies applied to CMS providers
It’s your turn to get involved!
How You Can Help

• Test, file bug reports or RFEs
• Comment on proposed new API or API refactorings
• Write or improve pieces of documentation (FAQ, howtos, Nuxeo Books...)
  • Use our Wiki for easier collaboration
• Write or improve translation files
  • Already: EN, FR, DE, IT, ES, VN, CN
How You Can Help (contd.)

• Become a commiter
  • First, submit your patches to the Jira
  • You must adhere to the projects coding rules and quality standards
  • We will give you direct access after a while

• You’re also free to develop your own extensions
  • We can host them if you want
  • Including putting them under CI, etc.
Thank you!