Nuxeo 5
Architecture Design

nuxeo

Design goals

- Flexible deployment
  - Transparently support different deployment platform (JBoss AS, Eclipse RCP, etc.)
  - Offer different deployment strategies (Full Web, Full Rich Client, Mix)
  - Provide several scale-out deployement scenarii
- Keep as much as possible Zope/CPS's good concepts
  - Modularity and extensibility
  - Notion of Schemas and Documents
  - Actions and Views management
  - Caching and invalidations

nuxeo

Design goals

- Easily accessible development framework
  - Different access level (integration, common development, core infrastructure)
  - Strongly separate each component to offer a clean & clear API
  - Rely on standards as much as possible
- Leverage the OpenSource Java community
  - Use « best of breed » existing components
  - Integrate them into plug & play components for our platform
- Future-proof design!

nuxeo

Design consequences

- Nuxeo 5 relies on standards
  - Easy access and interoperability
  - Future-proof Framework
- Nuxeo 5 provides deployment services
  - First target: OSGI & JMX
- Nuxeo 5 provides a powerful extension mechanisms
  - Enterprise Components (replacement for Zope's Products)
  - Enable the creation of simple plug-ins
  - An application is basically a set of Enterprise Components that mutually extend themselves

nuxeo

Design consequences

- Nuxeo 5 is built on a layered architecture
  - Choose what to deploy, where
  - Provide multi-level API
  - Share components between the client and the server

- Nuxeo 5 integrates existing OSS components
  - Jackrabbit, Lucene, jBPM, JBoss Rules, JBoss Seam, JOOConv, etc.

- Nuxeo 5 leverage innovative Java technologies
  - Java 5 & EJB3
  - Seam & JSF
  - AOP

nuxeo