JavaForge

JavaForge.com
the first Subversion backed Open Source
Development platform

Presenter: Janos Koppany, Intland

JavaForge

Agenda

- JavaForge.com, what is it and how it happened
- A JavaForge (local) live demo
- Questions and Answers

JavaForge.com Story

- In 2005, Javalobby.com a free Java community forum was looking for collaborative software development (CSD) portal for their community.
- JavaForge committers were looking for find alternatives against Sourceforge.net and CollabNet's Tigris.org
- They used Gforge, a PHP based system but were not satisfied
- Selected CodeBeamer, a Java based commercial CSD platform which mainly fulfilled their needs

---

What happens in the Open Source Communities?

- Open Source project resulted well known operating systems, servers, databases
- Global development teams are working together around the world
- Developers with Passion = Good Results

Trends

- Growing Open Source communities
- Growing interest from corporate IT shops and VCs

JavaForge.com Requirements for CSD portal (1)

- Must be efficient over the Internet
- Give transparency, achievability for developers
- Easy to maintain
- Scaleable for large community
- Anonymous user access
- Community building capability
- Shareable Document storage
- 100% free for Open Source Developers
- Java based
- SSO with the Javalobby portals
- API

JavaForge.com Requirements (2)

Communication
- Mailing lists, Forums
- Wiki, Bogs, RSS (mailing lists, forums replacements)

Commonly used Version Control Systems
- CVS, Subversion, the CVS replacement

Build
- ANT, Cruise Control, part of Maven

Issue tracking
- Bugzilla, simple part of Jira

JavaForge.com goes online

In a short iteration JavaForge found that for CodeBeamer is generally a good fit, but

- good community building functionality
- Anonymous User Access
- Developer stuffing
- community building

is a must. We added these features to the CodeBeamer product

In 2006 JavaForge.com went online as the first

- Subversion backed
- feature rich
- free

collaborative software development portal providing equivalent or better functionality than other CSD platforms.

Tiered development involvement, cross-team collaboration

Development involvement   Roles   Projects

Core developers

Non Core developers

Users

Anonymous

Core Developer — AxW AxR AxC ...

Non-Core Developer — AxW AxR AxC ...

Anonymous — AxR

Project Manager — AxW AxR ...

Non-Core Developer — AxW AxR ...

Project WEB
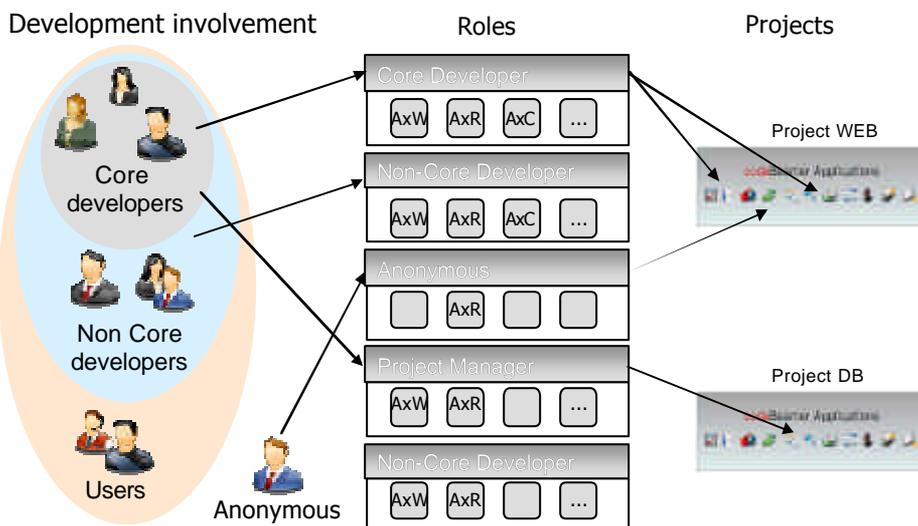
Project DB

Team Role – Core-Developer

Core-Developer
- Project Lead
- Coordinator for the incoming contributions
- Delegates tasks
- Control quality and releases

Core-Developer

Distributed Team Roles – Non-Core Developer

Non-Core Developer
- Comitting Code
- Reviews, enforcing peer code review
- Testing, maintaining modularity

Non-Core
Developer Team

Distributed Team Roles – Users

JavaForge

Users
- Beta Tester
- Localization
- etc

Users
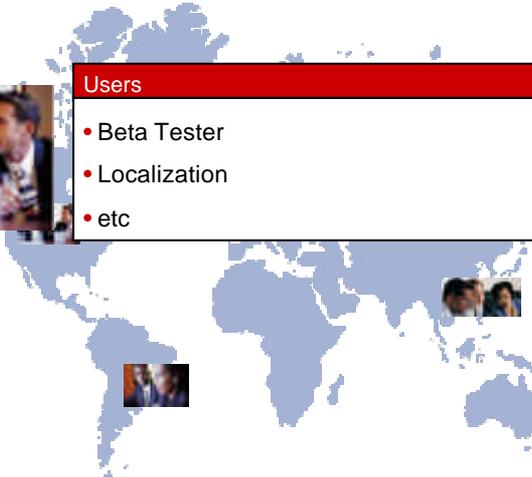
Distributed Team Communication
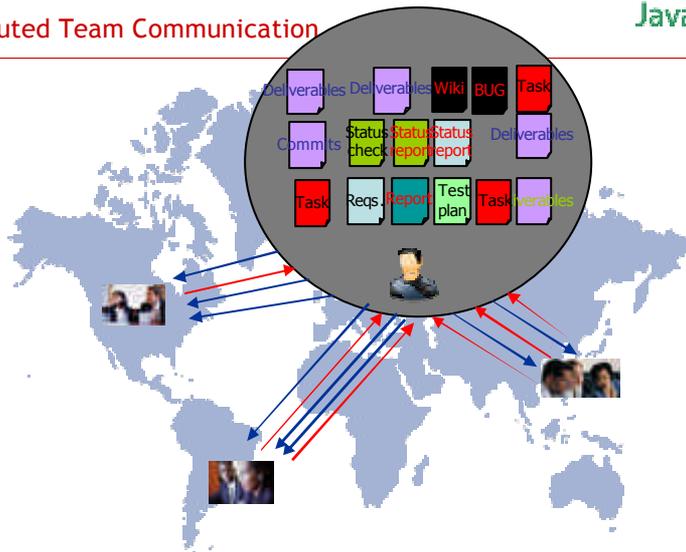
JavaForge

Deliverables Deliverables Wiki BUG Task
Commits Status check Status report Status report Deliverables
Task Reqs. Report Test plan Task Deliverables

JavaForge.com from the User Perspective

A platform of integrated applications including:

- Issue tracking for Bugs, Task, CRQ
- Document Management
- Wiki Spaces
- SCM integration
- QA metrics
- Build support
- Anonymous User Access
- Discussion Forum, Email integration
- Dashboard
- Search and Indexing

JavaForge.com Architectural Overview

Clients ← http(s) → Internet ← http(s) → Web Services API-based pluginns

Firewall

Tier 1: User Interface

SSH

Web Server

Tier 2: Business Logic

CodeBeamer Application Server

Tier 3 Persistence

Subversion   DB-Server   Document Management-Server, Indexing
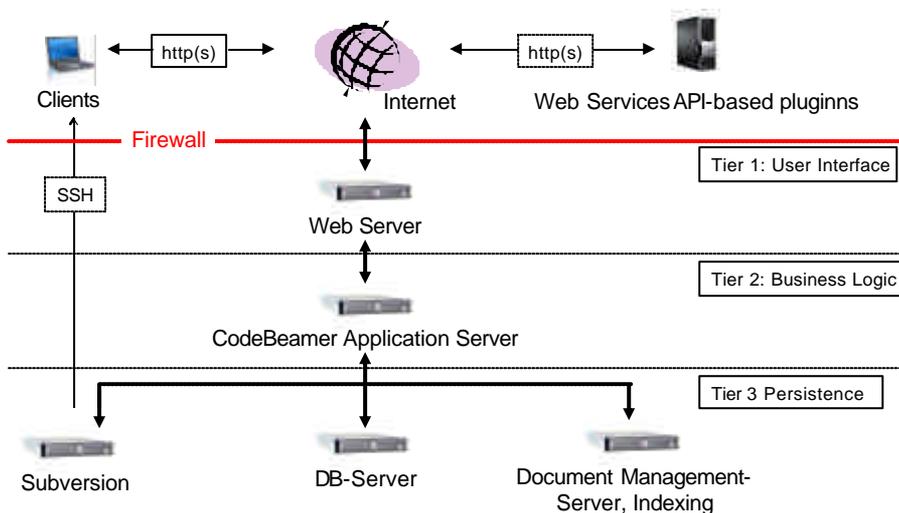
Community contributions

- Eclipse plugin
- Mylar plugin
- Netbeans plugin is on the way with full ALM featureset

Conclusion

- 7000 developers, 800 project
- API is key to involve contributors for plugins, extensions
- Some corporate IT makes their code open source to get community support around their code
- Based on the Javaforge experience a new CSD portal went online in May 2007 for Chinese developers

Open Issues

- Support – Before you start such Open Source portal you must allocate sufficient support resources for the community
- HW and backup
- Build – high CPU and RAM usage, must be done remotely
- Spam – take care on spammers otherwise search engines …
- Security – regular attacks from China

Next Future

- AJAX GUI
- Better Support
- Wiki, Wiki, …

Live Demonstration

Questions and Answers