Proposal to Build an
Open Source Software Project Foundry
with SVN and JIRA

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Purpose

- Produce an Open Source Software Project Foundry on par with the Apache Software Foundation and CodeHaus, by providing project management and software development infrastructure to University students, staff and faculty.
Why do this?

- The methods of the Open Source software community have changed how software projects are planned, executed and maintained in the business world.
  - Smaller, faster release cycles.
  - Geographically distributed teams.
  - Testing drives concrete, measurable progress.

- Foundry Project gives students the opportunity to:
  - Create and contribute to world-class software projects.
  - Learn about Agile Development processes.
  - Make inroads and contacts in the local and international business communities.
  - Benefit from professional scrutiny and feedback.

- Infrastructure hurdle presents a barrier to entry.
Low Hanging Fruit

- In addition to source control & project management software, we need:
  - E-Mail & Listserv
  - Wiki for documentation
  - Web server space & bandwidth
  - Talent
How will we build this?

- Complement existing Wiki & Listserv infrastructure with:
  - Source version control system (SVN)
  - Project coordination & bug tracking system (JIRA)

- Seed the infrastructure with a handful of projects, such as:
  - Plugins & enhancements for TWiki
  - Templates and Skins for UThink Blogs
  - Croquet

- Sponsor projects and contests in IT, CLA and CSOM

- Combine evangelism, documentation, training and user groups to incubate the community.
Version Control with SVN

- **SVN** (Subversion) is a feature-rich version control system designed to replace **CVS** (Concurrent Versioning System) in the Open Source community.
  - Many suggest we host **CVS** as well.

- **SVN** is released under an Apache/BSD-style Open Source license.

- **SVN** is the international gold standard for source control.

- **SVN** server runs on Unix or Windows.
Project Management with JIRA

- **JIRA** is used for bug tracking and project management by over 2,900 organizations in more than 55 countries around the world.

- **JIRA** is widely used across Fortune 1000, public enterprise, science and technology sectors.

- **JIRA** is the international gold standard for bug tracking and project management.

- **JIRA** is especially useful for tracking software development projects, but can be modified to serve other purposes as well.
## Small Sample of JIRA Users

- Carnegie Mellon
- Cornell University
- Harvard University
- MIT
- New York University
- Stanford University
- University of California
- University of Cambridge
- Yale University

- SAP
- Oracle
- Novell
- Honeywell

- US Supreme Court
- United Nations
- USAID
- US Department of Energy
- US Department of Labour
- US Department of the Interior
- US Department of Transport
- US Navy
- European Parliament

- Apple
- Adobe
- Cisco
- Disney
Primary Benefits & Advantages

- Helps us prepare students for the software development market.

- Exposure & publicity can help attract incoming talent.

- Talented students involved in high-profile projects can make names for themselves while still undergraduates, and give themselves priceless experience & training.

- We're more than half-way there already--our existing Wiki and Listserv infrastructure complete the platform for an Open Source Project Foundry.

- Cost competitive -- very affordable.
Derivative Benefits

- Departments, teams and individuals on campus can use **JIRA** for in-house project & personal time management.

- **JIRA** is flexible enough to fulfill Hope Johnson's “Idea management” concept.

- Open Source projects are a visible intellectual capital asset that we can show the public.

- Projects like these can help the University form and strengthen long-term partnerships with major industry players.

- It is possible to leverage the infrastructure for MN post-secondary and advanced placement students & also Alumni.
Cost Analysis

- **SVN & CVS**: $0.00 + high-quality documentation

- **JIRA**: $2,400 for Academic Enterprise License
  - Deploy on 1 server
  - Unlimited Projects
  - Unlimited Users
  - Unlimited Workflows
  - Free Year of Support

- **Hardware**: We need 1 robust server to run JIRA & a couple of servers with sufficient hard drive space to host SVN & CVS repositories.

- **Human Resources**: server administration, documentation, training, student volunteers
What Comes Next

- Allocate hardware & human resources.

- Install **SVN** & **JIRA** on the servers.

- Begin seeding the Foundry with projects while informing and educating the University community about the new project.

- We want YOUR ideas and involvement.

- Additional tasks are on the Demo server at http://128.101.84.57:8080/
  - Username: **iroc**
  - Password: **iroc**
Closing Thoughts

- Individuals are the ultimate source of innovation, but they best realize their potentials when they can specialize and combine their efforts. It is this “combination of differences” that creates motion in the mind.
Thank You!

Comments, questions and feedback welcome. Please write umffoundry@umn.edu