

# Collaborative Software Development

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# Agenda

- Why collaborative environment?
- Geographically distributed development needs
- Software Configuration Management
- Project tracking and Application lifecycle management
- Communication tools
- Wiki
- Bug/Issue tracking
- Build/Test

# Why collaborative environment?

- Share your work
- Get review
- Manage projects
- Communicate
- Track

# Geographically distributed development needs

- Medium to communicate via internet
- Location independent access
- Easy to learn systems
- Easy to administer
- One stop solution for your project needs

# Software Configuration Management

- Track and control changes in software
- Version Control
- Baselines - release management
- Configuration auditing
- Build management
- Process management - organization management
- Defect tracking

# Project tracking, Application lifecycle management (ALM)

## Tracker

- Defects
- Enhancements
- Actions

## ALM

- Integrated environment
- Requirements
- Modelling
- Design

## Reports

- Project stats
- Burn down charts

# Communication tools

- emails
- mailing lists
- IRC
- Micro-blogging
- OpenMeeting

- Easy to use
- Documentation
- Version the content
- Authorization and Access control (if needed)
- Mediawiki
- MoinMoin

# Bug/Issue tracking

- Track bugs with milestone
- Easy workflow customization
- Integration with other systems
- Establish hierarchy
- Prioritization
- Mantis
- Bugzilla

# Build/Test

## Hudson

- Supports many distros
- Change set generation
- Version control integration
- RSS/E-mail/IM integration
- Junit, TestNG - Test reporting
- Distributed builds
- Attach machines and schedule builds
- Huge plugin availability

# References

- A guide to Software Configuration Management - Alexis Leon
- CollabNet - <http://www.collab.net/>
- Wikipedia - <http://en.wikipedia.org/>

# Thank You

Thank You!  
Questions please