PDT 1.0 Release Review

Aug. 29, 2007

Vote URL: https://bugs.eclipse.org/bugs/show_bug.cgi?id=200578

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PDT Project Leader
Introduction

- Major project milestones
  - Proposal – December 2005
  - Creation Review – March 8 2006
  - EclipseCon Presentation – March 2006
  - Eclipse Summit Presentation – November 2006
  - EclipseCon Presentation – March 2007
  - 0.7 M1 First Stable Build – July 2006
  - 0.7 RC1 Build – January 2007
  - 1.0 M1 Build – June 2007
  - 1.0 RC1 – September 2007

- Current project size (10-Aug-2007)
  - ~6000 Files
  - ~130000 Lines of Code
PDT Statistics

- **17** Plugins
- **17** Committers (14 from Zend and 3 from IBM)
- **1106** Bugs (910 already closed)
- **Over 2000** newsgroup messages
- More than **40,000** downloads a month
PDT 1.0 Main Features

- Editor
  - Syntax Highlighting
  - Code Assist
  - Code Folding

- Inspection
  - File and Project Outline
  - PHP Explorer View

- Debug
  - PHP script and Web page
  - Breakpoints, Stack Trace, Evaluate Variables
Non-code aspects

- Unit Testing
  - RSS and mail notification every night with results

- Documentation
  - Dedicated technical writer for the project
  - 350 HTML files

- Conferences
  - EclipseCon – March 2006
  - Eclipse Summit – November 2006
  - NYPHP – February 2007
  - EclipseCon – March 2007
API & Extension Points
API & Extension Points (Cont.)

- API and extension points are available as detailed in the Wiki page and as followed:
  - Plug-in org.eclipse.php.core API
    - PHP Builder Extension
    - Include Path Variables
    - Workspace Model Listener
  - Plug-in org.eclipse.php.ui API
    - PHP Action Filter Contributor
    - PHP Folding Structure Provider
    - PHP Content Assist Processor
    - PHP Editor Text Hover
    - PHP Element Filter
    - PHP Hyperlink Detector
    - PHP Manual Director
    - PHP Manual URL
    - PHP Outline Element Comparer
    - PHP Preferences Page Block
    - PHP Tree Content Provider
    - PHP Wizard Page
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    - PHP Outline Element Comparer
    - PHP Preferences Page Block
    - PHP Tree Content Provider
    - PHP Wizard Page
  - Plug-in org.eclipse.php.server.core API
    - httpServerLaunchDelegate
API & Extension Points (Cont.)

- Plug-in org.eclipse.php.core API
  - PHP Builder Extension
  - Include Path Variables
  - Workspace Model Listener
- Plug-in org.eclipse.php.debug.core API
  - PHP Debug Parameters Initializer
  - PHP Debug Handler
  - PHP Debug Message
  - PHP exe
- Plug-in org.eclipse.php.debug.deamon API
  - Debug Communication Daemon
- Plug-in org.eclipse.php.debug.ui API
  - PHP Debug Model Presentation
- Plug-in org.eclipse.php.server.ui API
  - serverTab
  - serverWizardFragment
More Architectural Issues

- PDT based on WTP (Web tools project)
  - XML Editor
  - Structured editor
  - Outline extensibility
- Need more Unit Tests / Automatic Tests
  - UI complex parts
  - Automatic test using gui recorder
- Overlaps with other projects
  - Server definition with different perspective – Java and PHP Servers
- Generic Debug connectivity
Tools Usability

- PDT project contains all the basic and essential tools for PHP development.

Tools –

- PHP Explorer - Project management
  - Include path for projects
  - PHP Inspection of the project files
- Editor for PHP and HTML development
  - Syntax highlighting
  - Code folding
  - Code assist
- Debugging
  - PHP Script and Web page debugging
  - Variables
  - Output views
- Outlines – File, Project and PHP language
End of Life Features

- “…Summarize the features (APIs and any significant user features) from previous releases that are being end-of-life'd in this release. End of life includes both deprecation and actual removal…”
- Not relevant – First release!
Bugzilla

- Statistics as of 6-Aug-2007

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Standards

- Providing extensibility for most usable UI integration points
- Views, perspectives and actions according to Eclipse standards
- Following Eclipse JDT and WTP standards
- Java object oriented standards
- Design patterns for Java solutions
UI Usability

- Following Eclipse UI usability guidelines
- Usability changes based on users’ feedbacks
- Extending WTP UI usability
- Providing language extensibility options (following Eclipse standards)
Schedule

- [http://www.eclipse.org/pdt/plans/php_plan_1_0.php](http://www.eclipse.org/pdt/plans/php_plan_1_0.php)
- 0.7 Release was cancelled due to unresolved IP issues
- 1.0M1 – June 11th 2007
- 1.0M2 – August 13th 2007
- 1.0RC1 – September 2nd 2007
- 1.0 GA – September 18th 2007
- Webinar – October 2007
Process

- Open, Transparent Planning and Execution:
  - Discussions over the mailing list and the newsgroup
  - Contribution of source code submitted to Bugzilla and processed to the plugins
  - Cross projects discussions – WTP, ATF, DTP

- Infrastructure: Automated nightly builds, CVS Changelog, Automated RSS processor

- Automated unit-test execution on nightly builds

- Planned and coordinated testing involving the greater community
Committers and Contributors

- 17 committers from 2 organizations (Zend, IBM)
- Committers dedicated to development, testing and technical writing
- Contribution using bugzilla
- Mailing list and newsgroup participation (2000 messages)
- Face-to-face meetings held in Tel Aviv, New York and Austin at the beginning of the project
- Forums and blogs –
  - [http://www.easyeclipse.org/site/distributions/php.html](http://www.easyeclipse.org/site/distributions/php.html)
IP Issues

- See the IP Log at: http://www.eclipse.org/pdt/pdt-log.txt
- Committers:
  - Shachar Ben-Zeev
  - Philip Berkland
  - Brian Burns
  - Roy Ganor
  - Shalom Gibly
  - Gadi Goldbarg
  - Robert Goodman
  - Guy Gurfinkel
  - Eden Klein
  - Seva Lapsha
  - Yossi Leon
  - Igor Leznik
  - Yaron Mazor
  - Alon Peled
  - Jackie Sedi
  - Moshe Shukrun
  - Michael Spector
IP Issues (Cont.)

- See the IP Log at: [http://www.eclipse.org/pdt/pdt-log.txt](http://www.eclipse.org/pdt/pdt-log.txt)
- Third Party Software:
  
  # name including version
  # IPzilla # of entry providing legal clearance for inclusion
  # directory location or jar file
  # license name and version (including any licenses related to embedded third party software)
  # usage (e.g. modified/unmodified, source, object, derivative work, entire package or which subset)

- org.ini4j 0.2.6, #1124, org.eclipse.php.internal.core.phpini, Apache 2.0, derivative work
- org.ini4j 0.2.6, #1125, org.eclipse.php.core.src, Apache 2.0, entire package
- javaCUP 0.10j, #1126, org.eclipse.php.core.phpModel.javacup, CUP PARSER GENERATOR 1.0, entire package
- javaCUP 0.10j, #1127, org.eclipse.php.core.phpModel.javacup, CUP PARSER GENERATOR 1.0, derivative work
- javaCUP 0.10j, #1128, org.eclipse.php.core.phpModel.javacup.runtime, CUP PARSER GENERATOR 1.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1130, org.eclipse.php.core.documentModel.parser, GPL 2.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1131, org.eclipse.php.core.phpModel.parser.php4, GPL 2.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1132, org.eclipse.php.core.phpModel.parser.php5, GPL 2.0, derivative work
- jFlex 1.3.5 + 1.2.2, #1133, org.eclipse.php.core.phpModel.parser.phpdoc, GPL 2.0, derivative work
Future Goals and Plans

- **Goals**
  - Increase the PHP awareness
  - Become the official PHP development tool framework
  - Be involved in additional eclipse project (add committers to WTP on which we rely Influence Eclipse future development)
  - Create a supportive community around PDT

- **Plan items are currently in “Proposal” phase**

- **Most likely items right now**
  - Improve parsing and PHP model infrastructure
  - More Generic Debug UI
  - Editor Improvements – type hierarchy, method overridden info, find references, call hierarchy
  - Code folding
  - Improved code formatting definitions
  - Syntax highlighting based on AST
  - Code generation - override/implement methods, getter/setter for class fields
Vote for the PDT project in:
https://bugs.eclipse.org/bugs/show_bug.cgi?id=200578