JPA Diagram 0.5.0 Release Review
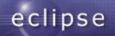

Planned Review Date: TBD

Communication Channel:

wtp-incubator-dev@eclipse.org

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Introduction

- JPA Diagram Editor is an Eclipse editor meant to easily create, view and edit JPA domain models in form of diagrams.

Features

- Manipulates JPA domain models by creating/editing diagrams

- Light and Easy (see tool usability section)

- Integration with existing tools

    - Uses Dali API

    - Integrated with JPA details view

    - Integrated with validation

Non-Code Aspects

- Project site:
  http://wiki.eclipse.org/JPA_Diagram_Editor_Project

- WTP Incubator forum used:
  http://www.eclipse.org/forums/index.php?t=thread&frm

- JPA Diagram Editor can be accessed through:

  - p2 repository:
    http://download.eclipse.org/webtools/incubator/repositor
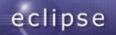
Non-Code Aspects (continued)

- Getting started with JPA Diagram Editor tutorial: http://wiki.eclipse.org/JPA_Diagram_Editor_Project_T

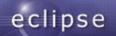- Demo recording: http://www.youtube.com/watch?v=xZf6pOHX178

Non-Code Aspects (continued)

- Hudson build server setup:
  https://hudson.eclipse.org/hudson/view/WTP/job/cbi-w
- JUnit tests performed on build server:
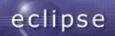 https://hudson.eclipse.org/hudson/view/WTP/job/cbi-w

APIs

- There is no API code in 0.5 release
- In 0.5 release all the code is in 'internal' packages
- Based on community requirements some of the code may become API in future

Architectural Issues

- JPA Diagram Editor is built on top of the Graphiti framework

- The architecture is inherited from the last two releases of the SAP NetWeaver Developer Studio

- Registering of JPA entities in persistence.xml is an issue since it causes silent replacement of java persistence objects – Eclipse bug #257530
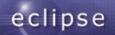
Tool Usability

- The JPA Diagram Editor is a tool designed to be usable as much as possible by JPA developers. It's aligned with the modern GUI requirements as follows:

  - Light - supports only the most important features, like creating, editing and deleting of Java entities, attributes and relations

  - Avoids usage of dialogs and wizards as much as possible

  - Uses defaults during creation of new objects as much as possible

  - Uses direct editing into the diagram

  - Easy refactoring through direct editing and context menus

End-of-Life

- Since this is the first release this section is not relevant

Bugzilla

- 64 total bugs reported
- 48 fixed for 0.5 release

Status

Target Milestone	NEW	ASSIGNED	RESOLVED	CLOSED	Total
---	4	.	2	2	8
0.5 RC1	.	.	14	.	14
0.5 RC2	.	.	14	4	18
0.5 RC3	.	.	7	1	8
0.5 RC4	.	1	4	.	5
0.7 M1	10	1	.	.	11
Total	14	2	41	7	64

Status

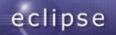| Severity	NEW	ASSIGNED	RESOLVED	CLOSED	Total
major	.	.	2	3	5
normal	1	2	32	1	36
minor	.	.	3	1	4
trivial	3	.	2	.	5
enhancement	10	.	2	2	14
Total	14	2	41	7	64

as of Nov 11th, 2010

Standards

- JPA 1.0

- JPA 2.0 – The editor is enabled for JPA 2.0 projects, but it should be used to visualize JPA 1.0 compliant entities

UI Usability

- The UI complies with Eclipse UI guidelines
- The strings visible by the end-user are externalized

Schedule

- Initial contribution – August 11-th, 2010
- 0.5 RC1 - August 18th, 2010
- 0.5 RC2 - September 15th, 2010
- 0.5 RC3 - October 19th, 2010
- 0.5 Release – December 1st, 2010
- 1.0 Release – planned for Indigo (as part of Dali)

Communities

- Conferences:
    - Eclipse Con 2010 - poster
    - Eclipse Summit Europe 2010 – poster and talk
    - Eclipse Con 2011 – proposals for poster and talk submitted
- Blog entries about the project RCs
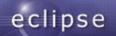- Active Forum
- Bugzilla: external input

IP Log

- The project leadership verifies that the Eclipse IP policies and procedures have been followed.

- The projects IP Log can be found here: …

IP Issues

- The EMO explicitly asks during the Release Review if any Member would like to assert that this release infringes their IP rights.

- If so, the EMO and the project will follow the Eclipse IP Policy in discussions with that Member.

Credits and Kudos

- Thanks to my colleagues from SAP:
    - Kaloyan Raev
    - Petya Sabeva
    - Alexander Silgidjian
    - Georgi Gerginov
    - Kiril Mitov (ex-colleague)
- Thanks to all the Oracle developers and QAs who opened a lot of bugs in Eclipse bugzilla
- Thanks to all the others who were interested in JPA Diagram Editor and helped us with their feedback