

Remus – Creation Review

Submitter: Tom Seidel – Independent Review Date: April 7, 2010 Communication Channel: eclipse.remus Newsgroup



Introduction

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Motivation

- Efficient data management and fast access to information becomes more and more important in today's information technology
- It needs many different applications to manage different types of information
- More and more data is stored "in the cloud", which requires reliable tooling to access information while not connected to any remote system without duplicating information (offline availability)
- Missing "searchability" over multiple information repositories
- Today it is still very difficult to exchange data between applications which store information



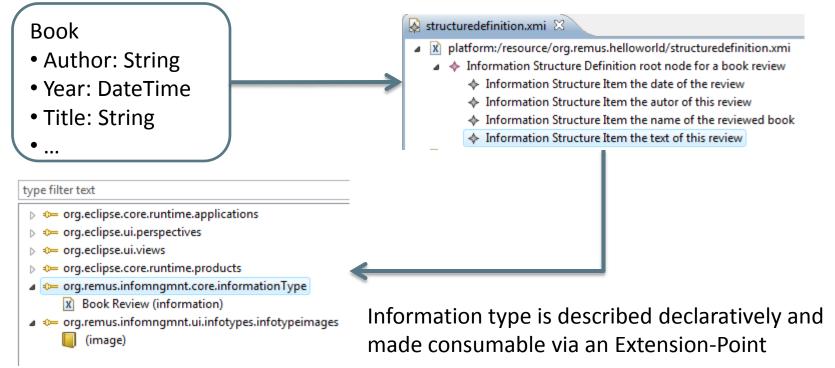
Goals

- Tooling for information management
 - Standalone RCP/Set of bundles which provides a complete tooling environment for information management
 - Tools for project management, document management, multimedia and social services
 - Connectors to various remote repositories (e.g. Amazon EC2, Alfresco, Mediawiki, etc)
- Framework for building information-centric Eclipse based applications
 - Different integration levels for building custom applications
 - Remus provides APIs that can be reused in different contexts
 - Approximately 20 different extension points
 - Widget APIs



Concepts (1)

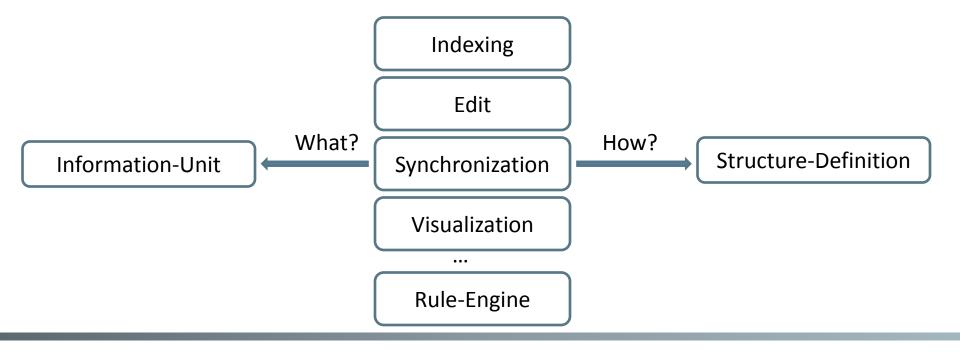
- Every information can be described via a structure definition of the data that represents an information
- Example: Informationtype Book





Concepts(2)

- Remus components are working with the information unit as data input and the referenced structure definition
- All components can handle any type of input data as long as the input data can be referenced by a structure definition





Proposed Components

- Core Components
 - Information Structure Definition
 - Provides a Framework and APIs to define an information structure and manipulating data on a high level API
 - Virtual File system
 - Provides API (based on the Eclipse File System) to create a custom persistencelayer, e.g. for encrypted data
- General UI Components
 - Viewer Component
 - Provides API for visualizing information structures in JFace Viewers including Context-Menus, Drag'n'Drop, Decorations, etc
 - Editor Components
 - High Level API for creating User Interfaces based on information structure definition, including a HTML Template Engine for visualizing information structures in an embedded browser



Proposed Components (2)

- Synchronization Components
 - Framework for synchronizing local data with a remote information repository, including user interfaces for visualizing change sets, updated items, etc.
- Rule Components
 - API for executing custom rules based on user-input (Groovy based). E.g. the user drops a string into the application and can select a rule (predefined or custom) which does something with the input, e.g. creates new data in the application.
- Search Components
 - Bundles to define declaratively which content nodes of an information unit needs to be indexed, API for searching references, etc



Scope

- Maintain and improve the technology
 - Provide detailed user documentation
 - User scenarios/Screencasts
 - Developer documentation
 - Extension Point Description
 - JavaDoc of Service Interfaces
 - PDE Template Wizards
 - Examples
- Within scope if interest is expressed
 - New information types
 - Especially Information types with attached documents are highly requested
 - New repository connectors
 - Focus on generic connectors
 - RAP compatibility
 - Basic Framework functionalities, no plan to port 100% of all components



Relationship with other Eclipse Projects

- EMF/EMFT
 - Remus uses a generated EMF Model for manipulating data. All manipulations are executed with the EMF-Edit Framework on an EditingDomain
 - The Synchronization components are using EMF Compare to detect changes between remote and local information structures
 - EMFQuery is used to access the underlying EMF Model
- ECF
 - Remus makes use of the ECF Filetransfer API to download and upload files over several protocols
- BIRT/DTP
 - Remus includes a full BIRT Runtime, a specific ODA Driver to access local data for visualizing them in BIRT Reports and offers an integration of the BIRT Designer.
- Mylyn
 - Remus reuses some UI Components from Mylyn, e.g. the notification window, Date-Widgets and the Screenshot function



Community Feedback

- Remus already has a growing user community, which is not part of the Eclipse Community
 - We receive consistently positive feedback
 - Users are very interested in document management
 - Surprisingly many downloads for Linux based operating systems.
- Potential Trademark Issues
 - Janet Campbell raised concerns regarding the project name [1]
 - Alternative names are:
 - Rhea Information Management
 - Aenas Information Management



Committers/Mentors

• Committers

- Tom Seidel (proposed Project Lead)
 - Tom is an independent Software Architect and Developer for Eclipse Technologies with over 6 years experience in building applications based on RCP and OSGi. Prior to this he has worked as technical lead in a developer team which primarily built RCP applications for the medical and pharmacy industry.
- Andreas Deinlein (proposed committer)
 Andreas serves as Software Architect for Siemens AG, Sector Healthcare where he develops and manages embedded software components for medical devices. He is also an enthusiastic C++ developer and has over 4 years experience in building plugins for the Eclipse Platform.
- Mentors
 - Ed Merks
 - Tom Schindl



Code Contribution

- Current Project is hosted at sourceforge.net
 - All code is licensed under the Eclipse Public License
 - Initial committers own all copyrights
 - Current bugtracker is JIRA [2]
 - Nightly builds are available via Bamboo Build System [3]
 - Code statistics are available via Ohloh [4]



Plan

- Releases
 - Current relasese is an unofficial Beta Version
 - 0.1 Release scheduled for Q2 2010
- Plan
 - Milestone release every 3 Month
 - 1.0 scheduled for Q2 2011



References

- [1] Eclipse Community Forums <u>http://www.eclipse.org/forums/index.php?t=msg&th=163766&start=0&</u>
- [2] JIRA System Dashboard <u>http://remus-software.org/jira/secure/Dashboard.jspa</u>
- [3] Bamboo Remus Dashboard <u>http://remus-software.org/bamboo/</u>
- [4] Remus Information Management Ohloh <u>http://www.ohloh.net/p/remus/analyses/latest</u>