

Redmine, das Projekt Management Werkzeug

Web Site:

www.soebes.de

Blog:

blog.soebes.de

Email:

info@soebes.de

Dipl.Ing.(FH) Karl Heinz Marbaise

Agenda

1. Einführung
2. Installation
3. Übersicht
4. Features
5. Informationsquellen

1. Einführung

- Redmine ist eine Projekt Management Software
- Redmine ist in Ruby unter der Verwendung des Ruby-on-Rails Frameworks implementiert.
- Redmine steht unter der “GNU General Public License” Lizenz

1. Einführung

- Wir sprechen über Redmine, aber es existieren auch andere Kollaborationslösungen
 - trac
 - Fusionforge (ehemals Gforge)
 - etc.

1. Einführung

- Warum?
 - Die aufgeführten Werkzeuge sind spezifisch für den genannten Zweck entwickelt.
 - Andere Werkzeuge unterstützen nur Teile z.B. Bug-Tracking, Wiki o.ä.
 - Es gibt einige Groupware Ansätze die auch Tracking etc. unterstützen.

2. Installation

- Die Installation von Redmine kann in ca. 15-30 Minuten erledigt werden.
- Bei Vertrautheit mit Ruby sogar in noch kürzerer Zeit.

2. Installation

- Redmine Archiv von Rubyforge [1] herunterladen (eventuell vorher Ruby installieren).
- Datenbank Zugriff (Benutzername, Passwort und Datenbankname) werden in `database.yml` abgelegt.
- Erzeugen der Datenbank mit entsprechenden Inhalten

```
rake db:migrate
RAILS_ENV="production"
```

2. Installation

- Die Default Konfiguration in die Datenbank laden.

```
rake redmine:load_default_data \  
RAILS_ENV="production"
```

- Berechtigungen setzen
- Test der Installation per

```
ruby script/server webrick \  
-e production
```

2. Installation

- Browser auf `http://localhost:3000` stellen
- Die Anmeldung für den Administrator wählen
 - Benutzername: admin
 - Benutzerpassword: admin

3. Übersicht Redmine

[Home](#) [Projects](#) [Help](#)

[Sign in](#) [Register](#)

Redmine

Search:

Home

Latest news

[SupoSE: Release 1.0.0](#)

This will become the Release 1.0.0

Added by [manager](#) [manager](#) [about 6 hours ago](#)

[View all news](#)



Latest projects

- [JaGoSI](#) (10/01/2008 04:25 AM)
Java GForge SOAP Interface
- [SupoSE](#) (09/29/2008 03:06 AM)
test

3. Übersicht Redmine Administratorsicht

Home My page Projects Administration Help Logged in as admin My account Sign out

Redmine

Search:

Administration

-  Projects | New
-  Users | New
-  Roles and permissions
-  Trackers | Issue statuses | Workflow
-  Custom fields
-  Enumerations
-  Settings
-  Information

3. Übersicht Redmine Projektliste

Home My page Projects Administration Help Logged in as **admin** My account Sign out

Redmine

Search:

Projects ➕ New project

Filters

Status : Project:

Project ▲	Description	Subprojects	Public	Created	Archive	Delete
SoEBes CMS	PoC of a CMS in Ruby on Rails.	0		01/29/2009	Archive	Delete
SupoSE	Subversion Repository Search Engine	7	✓	10/19/2008	Archive	Delete
SupoSE CLI	SupoSE CLI	0	✓	02/05/2009	Archive	Delete
SupoSE CORE	The Core part of SupoSE	0	✓	02/05/2009	Archive	Delete
SupoSE Documentation	The documentation part of the SupoSE project.	0	✓	03/02/2009	Archive	Delete
SupoSE IT	The Integration Test part of SupoSE	0	✓	02/05/2009	Archive	Delete
SupoSE REST	SupoSE RESTlet	0	✓	02/05/2009	Archive	Delete
SupoSE SOAP	The SOAP Sub Project for SupoSE	0	✓	02/05/2009	Archive	Delete
SupoSE Tomcat	The Tomcat Part of SupoSE for delivery.	0	✓	02/05/2009	Archive	Delete
TBD	The To Be Done project	0		10/23/2008	Archive	Delete
UCB Subversion	The Use Case Based Subversion Book	0		10/23/2008	Archive	Delete

(1-11/11) | Per page: 25, 50, 100

3. Übersicht Redmine Benutzerliste

Home My page Projects Administration Help Logged in as admin My account Sign out

Redmine

Search:

Users + New user

Filters
Status : active

Login ▲	Firstname	Lastname	Email	Administrator	Created	Last connection	
admin	Redmine	Admin	admin@somenet.foo	✓	10/01/2008 03:06 AM	10/05/2008 10:38 PM	Lock
anonymous	anonymous	-	anonymous@foo.bar		09/29/2008 01:48 AM		Lock
		-			10/01/2008 03:06 AM		Lock
		-			10/01/2008 03:06 AM		Lock
		-			10/02/2008 06:20 AM		Lock
		-			10/02/2008 06:20 AM		Lock
kama	Karl Heinz	Marbaise	redmine@soebes.de		10/01/2008 03:06 AM	10/03/2008 08:43 PM	Lock
kama@soebes.de	kama-soebes-de	-	kama@soebes.de		10/02/2008 06:20 AM		Lock
kamaa	kamaa	-	kamaa@foo.bar		10/01/2008 03:27 AM		Lock
manager	manager	manager	manager@foo.bar		10/01/2008 03:06 AM	10/03/2008 08:47 PM	Lock
		-			10/01/2008 03:06 AM		Lock
somebody	somebody	-	somebody@foo.bar		10/01/2008 03:27 AM		Lock

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3. Übersicht Redmine Rollen

Home My page Projects Administration Help Logged in as admin My account Sign out

Redmine

Search:

Roles + New role

Role	Sort	
Manager	-	Delete
Developer	-	Delete
Reporter	-	Delete
<i>Non member</i>		Delete
<i>Anonymous</i>		Delete

[Permissions report](#)

3. Übersicht Redmine Rollen

Role: Manager

Name *

Issues can be assigned to this role

Permissions

Project				
<input checked="" type="checkbox"/> Edit project	<input checked="" type="checkbox"/> Select project modules	<input checked="" type="checkbox"/> Manage members	<input checked="" type="checkbox"/> Manage versions	
Boards				
<input checked="" type="checkbox"/> Manage boards	<input checked="" type="checkbox"/> Add messages	<input checked="" type="checkbox"/> Edit messages	<input checked="" type="checkbox"/> Delete messages	
Documents				
<input checked="" type="checkbox"/> Manage documents	<input checked="" type="checkbox"/> View documents			
Files				
<input checked="" type="checkbox"/> Manage files	<input checked="" type="checkbox"/> View files			
Issue tracking				
<input checked="" type="checkbox"/> Manage categories	<input checked="" type="checkbox"/> Add issues	<input checked="" type="checkbox"/> Edit issues	<input checked="" type="checkbox"/> Manage issue relations	<input checked="" type="checkbox"/> Add issue notes
<input checked="" type="checkbox"/> Edit issue notes	<input checked="" type="checkbox"/> Edit own issue notes	<input checked="" type="checkbox"/> Move issues	<input checked="" type="checkbox"/> Delete issues	<input checked="" type="checkbox"/> Manage public queries
<input checked="" type="checkbox"/> Save queries	<input checked="" type="checkbox"/> View gantt	<input checked="" type="checkbox"/> View calendar		
News				
<input checked="" type="checkbox"/> Manage news	<input checked="" type="checkbox"/> Comment news			
Repository				
<input checked="" type="checkbox"/> Manage repository	<input checked="" type="checkbox"/> Browse repository	<input checked="" type="checkbox"/> View changesets		
Time tracking				
<input checked="" type="checkbox"/> Log time	<input checked="" type="checkbox"/> View time entries	<input checked="" type="checkbox"/> Edit time entries	<input checked="" type="checkbox"/> Edit own time entries	
Wiki				
<input checked="" type="checkbox"/> Manage wiki	<input checked="" type="checkbox"/> Rename wiki pages	<input checked="" type="checkbox"/> Delete wiki pages	<input checked="" type="checkbox"/> View wiki pages	<input checked="" type="checkbox"/> Edit wiki pages

[Check all](#) | [Uncheck all](#)

3. Übersicht Redmine Tracker

Home My page Projects Administration Help Logged in as admin My account Sign out

Redmine

Search:

Trackers + New tracker

Tracker	Sort	
Bug	-	Delete
Feature	-	Delete
Support	-	Delete

Tracker

Name *

Issues displayed in changelog

Issues displayed in roadmap

Save

3. Übersicht Redmine Settings

Home My page Projects Administration Help Logged in as admin My account Sign out

Redmine

Search:

Settings

General Authentication Projects Issue tracking Email notifications Incoming emails **Repositories**

Autofetch commits

Enable WS for repository management

Enabled SCM Subversion Darcs Mercurial Cvs Bazaar Git Filesystem

Repositories encodings
Multiple values allowed (comma separated).

Commit messages encoding

Referencing and fixing issues in commit messages

Referencing keywords
Multiple values allowed (comma separated).

Fixing keywords Applied status: % Done:

Multiple values allowed (comma separated).

3. Übersicht Redmine Projekt Übersicht

The screenshot shows the Redmine interface for the JaGoSI project. The top navigation bar includes links for Home, My page, Projects, and Help. The user is logged in as 'kama' and can access their account or sign out. A search bar and a 'Jump to a project...' dropdown are also present. The main navigation menu includes Overview (selected), Activity, Roadmap, Issues, New issue, News, Documents, Wiki, Files, and Repository. The Overview page displays the project name 'Java GForge SOAP Interface' and its subprojects. It features an 'Issue tracking' section with a list of open issues (3 bugs, 7 features) and a 'Members' section listing the project's reporters. A right-hand sidebar provides additional project management tools like Planning, Calendar, Gantt, and Spent time.

Home My page Projects Help Logged in as kama My account Sign out

JaGoSI Search: Jump to a project.. ▾

Overview Activity Roadmap Issues New issue News Documents Wiki Files Repository

Overview

Java GForge SOAP Interface

- Subprojects: GForge

Issue tracking

- Bug: 3 open on 60
- Feature: 7 open on 84

[View all issues](#)

Members

Reporter: kamaa -, manager -, somebody -, Karl Heinz Marbaise

Planning

[Calendar](#) | [Gantt](#)

Spent time

2.00 hours

[Details](#) | [Report](#)

3. Übersicht Redmine Projekt Kalender

Home My page Projects Help Logged in as kama My account Sign out

JaGoSI Search: Jump to a project...

Overview Activity Roadmap Issues New issue News Documents Wiki Files Repository

October 2008

« September November »

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
39	28	29	30	1 Milestone 0.0.8	2	3	4
40	5 ♦ Feature #106: Get to run the auto generat... ♦ Feature #104: Fixe Maven 2 Build package	6 ♦ Feature #104: Fixe Maven 2 Build package	7 ♦ Feature #84: Con Upd	8 ♦ Feature #84: Feature #84: Configure the Upload limit for Files Start: 10/08/2008 Due date: 10/08/2008 Assigned to: Karl Heinz Marbaise Priority: Normal	9	10 ♦ Feature #83: ing with activated	11
41	12 ♦ Feature #81: Class JaGoSIProjectTask	13	14 ♦ Feature #81: Class JaGoSIProjectTask	15	16	17 Milestone 0.0.11	18
42	19	20	21	22	23	24	25
43	26	27	28	29	30	31	1

♦ task beginning this day
 ♦ task ending this day
 ♦ task beginning and ending this day

Calendar

October 2008

Bug
 Feature
 Subprojects

3. Übersicht Redmine Projekt Aktivitäten

Home My page Projects Help

Logged in as kama My account Sign out

JaGoSI

Search: Jump to a project..

Overview **Activity** Roadmap Issues New issue News Documents Wiki Files Repository

Activity

From 10/14/2007 to 11/12/2007

11/07/2007

- 06:21 PM Revision 248: - Removed unused packages in Test area.
- *Removed unused packages in Test area.*
kama
- 06:16 PM Revision 247: - Fixed #133 - Change to TestNG - Added TestGroup file to the Global project
- *Fixed #133 - Change to TestNG - Added TestGroup file to the Global project*
kama
- 06:10 PM Bug #130 (Closed): Add Unit Test Artifact/Groups
manager -
- 06:09 PM Feature #133 (Closed): Introduce TestNG instead of JUnit 4
manager -
- 06:09 PM Revision 246: - Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITest...
- *Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITestCase.java, cause it currently does not work.*
kama

11/06/2007

- 07:16 PM Feature #133: Introduce TestNG instead of JUnit 4
Use `[[TestNG]]` instead of JUnit 4, cause we can use the grouping options.
manager -

11/05/2007

- 09:02 AM Revision 245: - Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X ...
- *Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X to JUnit 4.X - Updated dependency for POM from 0.0.10 to 0.0.11*
kama

10/30/2007

- 06:46 PM Revision 244: - Fixed changes.xml
- *Fixed changes.xml*
kama

Activity

- Issues
- News
- Files
- Documents
- Changesets
- Wiki pages
- Subprojects

3. Übersicht Redmine Projekt Roadmap

Home My page Projects Help Logged in as kama My account Sign out

JaGoSI

Search: Jump to a project.. v

Overview Activity **Roadmap** Issues New issue News Documents Wiki Files Repository

Roadmap

 **Milestone 0.0.11**

Due in 9 days (10/17/2008)

 38%

5 closed (36%) 9 open (64%)

Related issues

- [Feature #16](#): Exception if not correctly authenticated via login()
- [Feature #19](#): JaGoSI Error Handling
- [Feature #81](#): Class JaGoSIProjectTask
- [Feature #83](#): Compiling with debug activated
- [Feature #84](#): Configure the Upload limit for Files
- [Feature #104](#): Fixe Maven 2 Build package
- [Feature #106](#): Get to run the auto generated Unit Tests of Axis
- [Feature #133](#): Introduce TestNG instead of JUnit 4
- [Feature #134](#): Update Copyright Year

Roadmap

Feature

Show completed versions

Versions

[Milestone 0.0.11](#)

3. Übersicht Redmine Projekt Issues

Home My page Projects Help Logged in as kama My account Sign out

JaGoSI

Search: Jump to a project.. ▼

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository

Issues

Filters

Status open ▼ Add filter: ▼

Apply

<input checked="" type="checkbox"/>	#	Tracker	Status	Priority	Subject	Assigned to	Updated
<input type="checkbox"/>	131	Bug	New	High	com.soebes.jagosi.api.util.ReleasePropertiesTest do not work under Maven run	Karl Heinz Marbaise	10/28/2007 03:01 PM
<input type="checkbox"/>	106	Feature	New	Urgent	Get to run the auto generated Unit Tests of Axis	Karl Heinz Marbaise	10/07/2008 10:20 AM
<input type="checkbox"/>	104	Feature	Assigned	Immediate	Fixe Maven 2 Build package	manager -	10/06/2008 04:59 AM
<input type="checkbox"/>	95	Bug	New	Normal	Change Return Type of createFRSFile	Karl Heinz Marbaise	07/21/2007 09:18 PM
<input type="checkbox"/>	85	Bug	New	Normal	Update or add the JavaDoc for Methods.	Karl Heinz Marbaise	07/13/2007 12:43 AM
<input type="checkbox"/>	84	Feature	New	Normal	Configure the Upload limit for Files	Karl Heinz Marbaise	10/06/2008 05:00 AM
<input type="checkbox"/>	83	Feature	New	High	Compiling with debug activated	Karl Heinz Marbaise	10/06/2008 05:00 AM
<input type="checkbox"/>	81	Feature	New	High	Class JaGoSIProjectTask	Karl Heinz Marbaise	10/06/2008 05:01 AM
<input type="checkbox"/>	19	Feature	New	High	JaGoSI Error Handling	Karl Heinz Marbaise	06/17/2007 09:28 PM
<input type="checkbox"/>	16	Feature	New	High	Exception if not correctly authenticated via login()	Karl Heinz Marbaise	06/17/2007 12:42 AM

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Also available in: [Atom](#) | [CSV](#) | [PDF](#)

Issues

- [View all issues](#)
- [Summary](#)
- [Change log](#)

3. Übersicht Redmine Issues Kontext

Home My page Projects Administration Help

SupoSE

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository Settings

Issues

Filters

Status Add filter:

Apply

#	Tracker	Status	Priority	Subject	Assigned to	Updated
<input checked="" type="checkbox"/> 201			Normal	Change logging configuration	Karl Heinz Marbaise	09/20/2008 08:36 PM
<input type="checkbox"/> 200			Urgent	Remove system-scoped dependencies.	Karl Heinz Marbaise	09/20/2008 08:36 PM
<input type="checkbox"/> 199			High	Missing dependency for fontbox in pom	Karl Heinz Marbaise	03/27/2008 08:21 PM
<input type="checkbox"/> 181				Normal - GNU File	Karl Heinz Marbaise	01/04/2008 01:48 PM
<input type="checkbox"/> 180				or Trac to search in the created index via trac.	Karl Heinz Marbaise	12/31/2007 01:19 PM
<input type="checkbox"/> 173				Basic Web application for searching	Karl Heinz Marbaise	03/17/2008 01:20 AM
<input type="checkbox"/> 170				t of the --help output should be changed	Karl Heinz Marbaise	12/19/2007 10:00 AM
<input type="checkbox"/> 168				command stat	manager -	03/26/2008 03:53 PM
<input type="checkbox"/> 167				index handling during scheduled running	Karl Heinz Marbaise	01/10/2008 08:59 PM
<input type="checkbox"/> 155				Office Files.	Karl Heinz Marbaise	12/17/2007 11:00 PM

(1-10/10) |

Also available in: [Atom](#) | [CSV](#) | [PDF](#)

3. Übersicht Redmine Ticket

Home My page Projects Administration Help Logged in as admin My account Sign out

JaGoSI

Search:

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository Settings

Feature #106 Update Log time Watch Copy Move Delete

Get to run the auto generated Unit Tests of Axis

Added by manager - [439 days](#) ago. Updated 1 day ago.

Status :	New	Start :	10/06/2008
Priority :	Urgent	Due date :	10/06/2008
Assigned to :	Karl Heinz Marbaise	% Done :	<input type="text"/> 0%
Category :	Maven Build System	Spent time :	-
Target version :	Milestone 0.0.11	Estimated time :	8.00 hours
Resolution :			

Description

Get to run the auto generated Unit Tests of Axis, cause currently the majority will fail.

Related issues Add

History

10/06/2008 04:58 AM - Redmine Admin #1

- **Due date** set to *10/06/2008*
- **Start** set to *10/06/2008*
- **Estimated time** set to *8.0*

Also available in: [Atom](#) | [PDF](#)

3. Übersicht Redmine Zeiterfassung

Home My page Projects Help Logged in as kama My account Sign out

JaGoSI Search: Jump to a project... ▾

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository

Spent time

Issue *Feature #106: Get to run the auto generated Unit Tests of Axis*

Date * 

Hours *

Comment

Activity *

? **October, 2008** x

<< < Today > >>

wk	Sun	Mon	Tue	Wed	Thu	Fri	Sat
39				1	2	3	4
40	5	6	7	8	9	10	11
41	12	13	14	15	16	17	18
42	19	20	21	22	23	24	25
43	26	27	28	29	30	31	

Select date

3. Übersicht Redmine Ticket

The screenshot shows a Redmine interface for a project named 'TestProject'. The user is logged in as 'admin'. The main content area displays a ticket titled 'Bug #1' with the following details:

- Status:** Closed
- Priority:** Normal
- Assigned to:** Karl Heinz Marbaise
- Category:** -
- Target version:** Milestone 0.1.0
- Start:** 03/13/2009
- Due date:** -
- % Done:** 100% (indicated by a green progress bar)
- Spent time:** 2.00 hours
- Estimated time:** 2.00 hours

The ticket description reads: 'This should be solved as the first step.' Below the description are sections for 'Related issues' and 'Watchers', both with 'Add' buttons. A 'History' section shows an update by 'Anonymous' 15 minutes ago, with a list of changes: 'Status changed from New to Closed' and '% Done changed from 0 to 100'. It also notes 'Applied in changeset r3.'.

An 'Associated revisions' box is overlaid on the history, showing 'Revision 3' added by 'km' 17 minutes ago, with the note '- Fixed #1'. The interface includes a sidebar with 'Issues' (View all issues, Summary, Change log) and 'Planning' (Calendar, Gantt) sections. The footer indicates the page is powered by Redmine and provides links for Atom and PDF feeds.

3. Übersicht Redmine Projekt Einstellungen

Home My page Projects Administration Help Logged in as admin My account Sign out

JaGoSI

Search:

Overview Activity Roadmap Issues New issue News Documents Wiki Files Repository **Settings**

Settings

Information Modules Members Versions Issue categories Wiki Repository Forums

Name *
30 characters maximum.

Subproject of

Description **B** **I** **U** **S** **C** **H1** **H2** **H3** **pre** [Text formatting: Help](#)

Java GForge SOAP Interface

Identifier *

Homepage

Public

Trackers

Bug Feature Support

Custom fields

Resolution

3. Übersicht Redmine Projekt Einstellungen

Home My page Projects Administration Help Logged in as admin My account Sign out

SupoSE

Search:

Overview Activity Roadmap Issues New issue News Documents Wiki Forums Files Repository **Settings**

Settings

Information Modules Members Versions Issue categories Wiki Repository Forums

Version	Date	Description	Wiki page		
0.1.0 Mercury	12/06/2007		0.1.0 Mercury	Edit	Delete
0.2.0 Venus	12/08/2007		0.2.0 Venus	Edit	Delete
0.2.0.1 Venus (Bugfix)	12/14/2007		0.2.0.1 Venus (Bugfix)	Edit	Delete
0.3.0 Earth	01/10/2008		0.3.0 Earth	Edit	Delete
0.4.0 Mars	03/26/2008		0.4.0 Mars	Edit	Delete
0.5.0 (Ceres) Alpha 1	01/14/2009	0.5.0 (Ceres) Alpha 1	0.5.0 (Ceres) Alpha 1	Edit	Delete
0.5.0 Ceres	01/24/2009		0.5.0 Ceres	Edit	Delete
0.5.0.1 Ceres	02/19/2009	0.5.0.1 Ceres	0.5.0.1 Ceres	Edit	Delete
0.5.1 Europa	02/21/2009	0.5.1 Europa	0.5.1 Europa	Edit	Delete
0.5.2 Bergelmir	05/06/2009	0.5.2 Bergelmir	0.5.2 Bergelmir	Edit	Delete
0.6.0 Bebhionn	06/01/2009	0.6.0 Bebhionn	0.6.0 Bebhionn	Edit	Delete
0.6.1 Bestla	06/17/2009	0.6.1 Bestla	0.6.1 Bestla	Edit	Delete
0.6.2 Calypso		0.6.2 Calypso	0.6.2 Calypso	Edit	Delete
0.7.0 Tethys		0.7.0 Tethys	0.7.0 Tethys	Edit	Delete
Feature Enhancements			Feature Enhancements	Edit	Delete
SupoSEWeFE 0.1.0			SupoSEWeFE 0.1.0	Edit	Delete

New version

4. Features

- Wiki
- Ticket System
- Foren
- Repository Browser
- Unterstützte Versionkontrollsysteme
 - CVS, Subversion, Git, Mercurial, Bazaar
- Unterstützung für remote Repositories.

4. Features

- Zeit Erfassung
 - Integriert
 - Zusätzliches PlugIn's für Budget Verwaltung verfügbar.
- Über PlugIn's Erweiterbar
 - Es gibt auch schon einge PlugIn's
- Datei Bereich / Dokumenten Bereich

4. Features

- Unterstützung für mehrere Projekte in einer Instanz
 - Erzeugung der Projekte via UI
- Sub Projekte
 - Derzeit auf einen Sub-Level begrenzt (Wird in 0.9 geändert)
- Benutzerdefinierte Felder für Tracker (Bugs, Support, Patch, Feature Request)

4. Features

- Technische Features
 - Unterstützte Betriebssystem
 - Linux, Windows und Mac OS
 - Benutzer Selbst-Registrierung
 - Kann deaktiviert werden
 - Unterstützung für LDAP Authentifizierung

4. Features

- Technische Features
 - Unterstützte Datenbanksysteme:
 - MySQL, PostgreSQL, SQLite, Oracle, DB2, SQLServer (Ruby On Rails)
 - RESTlest Interface
 - SOAP/RPC wird nicht mehr unterstützt.

4. Features

- Technische Features
 - Migration von anderen Werkzeugen:
 - Trac
 - Derzeitig noch ein paar Bugs enthalten.
 - Bugzilla, Mantis (Nicht getestet).

Informationsquellen

- [1] [Rubyforge](#)
- [2] [Homepage Redmine](#)
- [3] [PlugIns](#)

Questions?

linuxtag2009@soebes.de

- Thank you for your attention.

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