

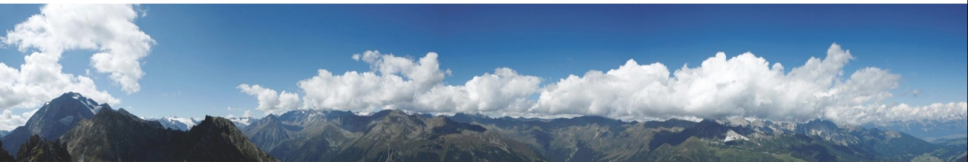


STI · INNSBRUCK

703657 PS/2 Web Engineering

Task 2 - Requirements Engineering

Wednesday, 2015-03-18



Schedule - Where are we now?

Session	Date	Task
1	Wed, 2015-03-11	Project idea
2	Wed, 2015-03-18	Requirements engineering
3	Wed, 2015-03-25	-
4	Wed, 2015-04-15	Progress / Presentation
5	Wed, 2015-04-22	-
6	Wed, 2015-04-29	-
7	Wed, 2015-05-06	Mid-Term Report / Presentation
8	Wed, 2015-05-13	-
9	Wed, 2015-05-20	-
10	Wed, 2015-05-27	-
11	Wed, 2015-06-03	Progress / Presentation
12	Wed, 2015-06-10	-
13	Wed, 2015-06-17	-
14	Wed, 2015-06-24	Final Report / Presentation

Types of Requirements:

1. Functional Requirements
 - system's capabilities and services
2. Non-Functional Requirements
 - desired levels of quality
 - project constraints and system interface

Produces a **requirements document** summary

Functional:

1. Data requirements
2. Interface requirements
3. Navigational requirements
4. Personalization requirements
5. Transactional requirements

Non-Functional:

1. Content
2. Quality
3. System environment
4. User interface
5. Evolution
6. Project constraints

To capture, manage and documenting the requirements for your project.

- IBM Rational DOORS ¹
- HP Requirement Management ²
- Borland Caliber ³
- Innoslate ⁴ / Jama ⁵
- RMsis for JIRA ⁶
- List of tools is available on Wikipedia ⁷

¹ <http://www-03.ibm.com/software/products/en/ratidoor>

² <http://www8.hp.com/us/en/software-solutions/requirements-management/index.html>

³ <http://www.borland.com/products/caliber/>

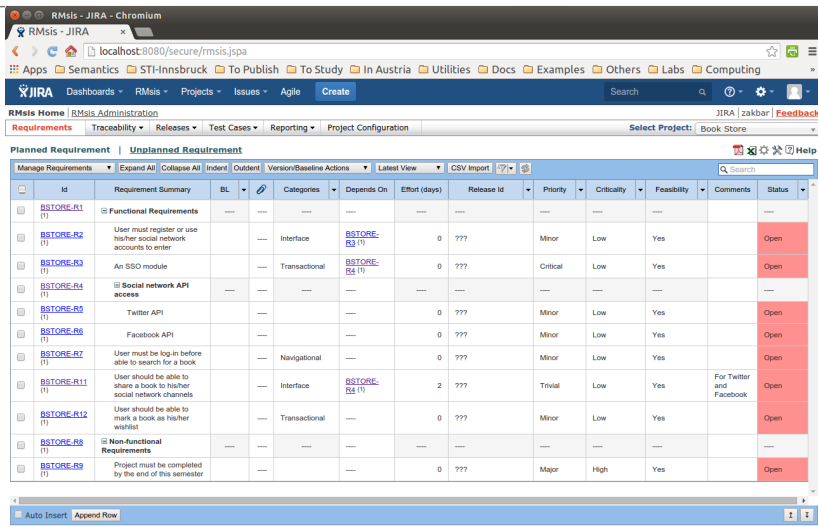
⁴ <https://www.innoslate.com/requirements-management/>

⁵ <http://www.jamasoftware.com/>

⁶ <http://products.optimizory.com/rmsis>

⁷ http://en.wikipedia.org/wiki/Requirements_engineering

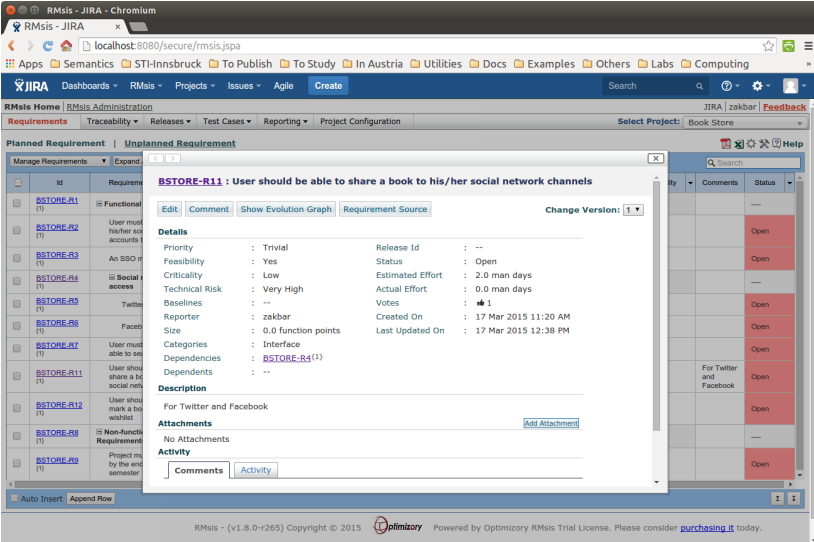
Example: RMsis for JIRA (1)



The screenshot displays the RMsis - JIRA web application interface. The browser address bar shows the URL `localhost:8080/secure/rmsis.jspa`. The application header includes navigation menus for **Requirements**, **Traceability**, **Releases**, **Test Cases**, **Reporting**, and **Project Configuration**. The **Planned Requirement** | **Unplanned Requirement** section is active, showing a table of requirements.

Id	Requirement Summary	BL	Categories	Depends On	Effort (days)	Release Id	Priority	Criticality	Feasibility	Comments	Status
BSTORE-R1 (1)	Functional Requirements	---	---	---	---	---	---	---	---	---	---
BSTORE-R2 (1)	User must register or use his/her social network accounts to enter	---	Interface	BSTORE-R3 (1)	0	???	Minor	Low	Yes		Open
BSTORE-R3 (1)	An SSO module	---	Transactional	BSTORE-R4 (1)	0	???	Critical	Low	Yes		Open
BSTORE-R4 (1)	Social network API access	---	---	---	---	---	---	---	---		---
BSTORE-R5 (1)	Twitter API	---	---	---	0	???	Minor	Low	Yes		Open
BSTORE-R6 (1)	Facebook API	---	---	---	0	???	Minor	Low	Yes		Open
BSTORE-R7 (1)	User must be log-in before able to search for a book	---	Navigational	---	0	???	Minor	Low	Yes		Open
BSTORE-R11 (1)	User should be able to share a book to his/her social network channels	---	Interface	BSTORE-R4 (1)	2	???	Trivial	Low	Yes	For Twitter and Facebook	Open
BSTORE-R12 (1)	User should be able to mark a book as his/her wishlist	---	Transactional	---	0	???	Minor	Low	Yes		Open
BSTORE-R8 (1)	Non-functional Requirements	---	---	---	---	---	---	---	---		---
BSTORE-R9 (1)	Project must be completed by the end of this semester	---	---	---	0	???	Major	High	Yes		Open

Example: RMsis for JIRA (2)




The screenshot displays the RMsis-JIRA web application interface. The browser address bar shows the URL `localhost:8080/secure/rmsis.jspa`. The application header includes navigation menus for 'Dashboards', 'RMsis', 'Projects', 'Issues', 'Agile', and 'Create'. The main content area is titled 'Planned Requirement | Unplanned Requirement' and shows a list of requirements on the left. The central pane displays the details for requirement **BSTORE-R11**: 'User should be able to share a book to his/her social network channels'. The details section includes:

- Details:** Priority: Trivial, Feasibility: Yes, Criticality: Low, Technical Risk: Very High, Baselines: --, Reporter: zokbar, Size: 0.0 function points, Categories: Interface, Dependencies: **BSTORE-R4**(1), Dependents: --.
- Description:** For Twitter and Facebook.
- Attachments:** No Attachments.
- Activity:** Comments and Activity tabs.

On the right side, a table shows the status of various requirements:

Requirement	Status
---	---
---	Open
---	Open
---	---
---	Open
---	Open
---	Open
---	Open
For Twitter and Facebook	Open
---	Open
---	---
---	Open

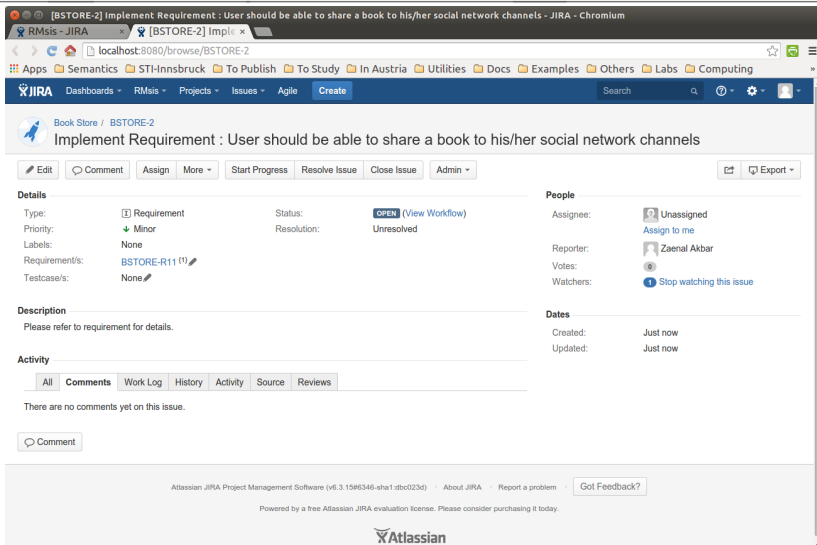
At the bottom of the page, the footer text reads: 'RMsis - (v1.8.0-r265) Copyright © 2015  Powered by Optimizory RMsis Trial License. Please consider [purchasing it](#) today.'

- Requirement summary / description
- Category (e.g. Data, Interface, Navigational, Security)
- Depends on (other requirement(s))
- Required Effort (days)
- Priority (e.g. Minor, Major, Critical)
- Criticality (e.g. Low, Medium, High)
- Feasibility (e.g. Yes, Investigate, No)
- Status (e.g. Open, Completed, Closed)

Collaborative:

- Comments / Votes
- Create JIRA Issue(s)
- Generate *requirements document*

Example: RMsis for JIRA (4)



The screenshot shows a web browser window displaying a JIRA issue page. The browser's address bar shows the URL `localhost:8080/browse/BSTORE-2`. The JIRA navigation bar includes 'Dashboards', 'RMsis', 'Projects', 'Issues', 'Agile', and 'Create'. The issue title is 'Implement Requirement : User should be able to share a book to his/her social network channels'. The issue is categorized as a 'Requirement' with a status of 'OPEN' and a resolution of 'Unresolved'. The priority is 'Minor'. The reporter is 'Zaenal Akbar'. The issue was created and updated 'Just now'. There are no comments or activity on this issue.

Details

Type:	Requirement	Status:	OPEN (View Workflow)
Priority:	Minor	Resolution:	Unresolved
Labels:	None		
Requirement/s:	BSTORE-R11 (1)		
Testcase/s:	None		

Description

Please refer to requirement for details.

Activity

All Comments Work Log History Activity Source Reviews

There are no comments yet on this issue.

People

Assignee: Unassigned
[Assign to me](#)

Reporter: Zaenal Akbar

Votes: 0

Watchers: 1 Stop watching this issue

Dates

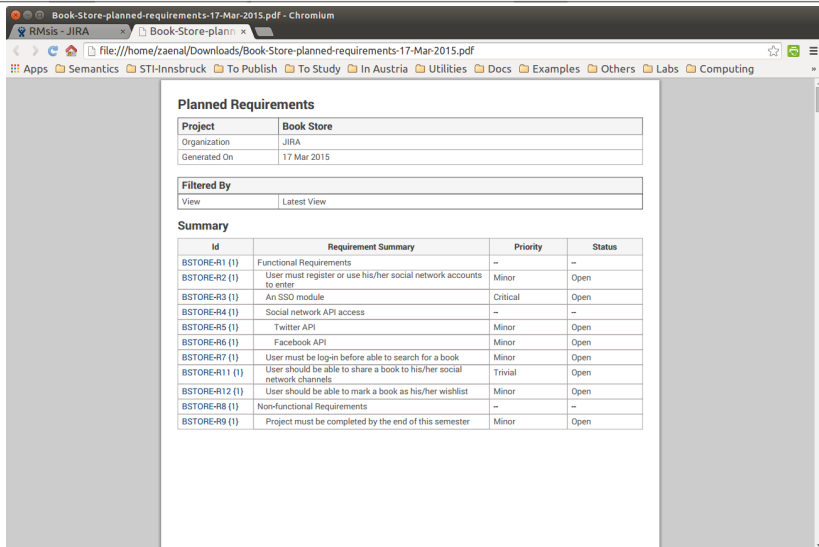
Created: Just now
Updated: Just now

Atlassian JIRA Project Management Software (v6.3.1586346-sha1:d8c023d) · About JIRA · Report a problem · [Got Feedback?](#)

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Example: RMsis for JIRA (5)



The screenshot shows a web browser window with the address bar displaying the file path: file:///home/zaena/Downloads/Book-Store-planned-requirements-17-Mar-2015.pdf. The browser tabs include 'RMsis - JIRA' and 'Book-Store-plann...'. The browser's bookmark bar contains various folders like 'Apps', 'Semantics', 'STI-Innsbruck', 'To Publish', 'To Study', 'In Austria', 'Utilities', 'Docs', 'Examples', 'Others', 'Labs', and 'Computing'.

Planned Requirements

Project	Book Store
Organization	JIRA
Generated On	17 Mar 2015

Filtered By

View	Latest View
------	-------------

Summary

Id	Requirement Summary	Priority	Status
BSTORE-R1 (1)	Functional Requirements	--	--
BSTORE-R2 (1)	User must register or use his/her social network accounts to enter.	Minor	Open
BSTORE-R3 (1)	An SSO module	Critical	Open
BSTORE-R4 (1)	Social network API access	--	--
BSTORE-R5 (1)	Twitter API	Minor	Open
BSTORE-R6 (1)	Facebook API	Minor	Open
BSTORE-R7 (1)	User must be log-in before able to search for a book	Minor	Open
BSTORE-R11 (1)	User should be able to share a book to his/her social network channels	Trivial	Open
BSTORE-R12 (1)	User should be able to mark a book as his/her wishlist	Minor	Open
BSTORE-R8 (1)	Non-functional Requirements	--	--
BSTORE-R9 (1)	Project must be completed by the end of this semester	Minor	Open

Group assignment:

1. Identify the requirements of your project, try to be as detail as possible
 - Functional, identify requirements for: data, interface, navigational, personalization, transactional
 - Non-Functional, identify requirements for: expected quality, project constraints
2. Manage those requirements by using a requirements management tool
 - Define (at least) the following attributes: summary, category, dependency, required efforts, priority, criticality
3. Generate the **requirements document** and send it to the tutor by the next session (Wednesday, 2015-03-25, 08.15) at the latest