ReqView / Volere

Requirements Specification Template

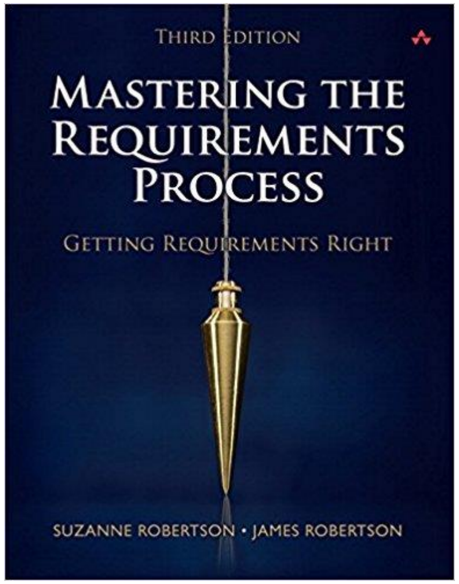
www.reqview.com

We acknowledge that this document uses material from the Volere Requirements Specification Template.

Copyright © 1995 – 2019 the Atlantic Systems Guild Limited.

Volere

- Requirements engineering and business analysis resources by Atlantic Systems Guild
  - *Volere Process*
  - *Volere Requirements Specification Template*
  - Books and articles
  - Courses and workshops
  - Videos
  - Case studies


THIRD EDITION
MASTERING THE REQUIREMENTS PROCESS
GETTING REQUIREMENTS RIGHT
SUZANNE ROBERTSON • JAMES ROBERTSON

Volere Requirements Specification Template

Content

- Project Drivers & Needs
- Project Requirements
  - Project Constraints
  - Functional Requirements
  - Nonfunctional Requirements
- Project Issues
- Naming Conventions and Definitions

Volere Requirements Specification Template

Project Needs

1. *The Purpose of the Project* — business problem and its intended solution by the product
2. *Stakeholders* — client, customer, users
3. *Relevant Facts and Assumptions*
4. *The Scope of the Work* — context diagram and business use-cases
5. *Business Data Model*
6. *The Scope of the Product* — product boundary and use-cases

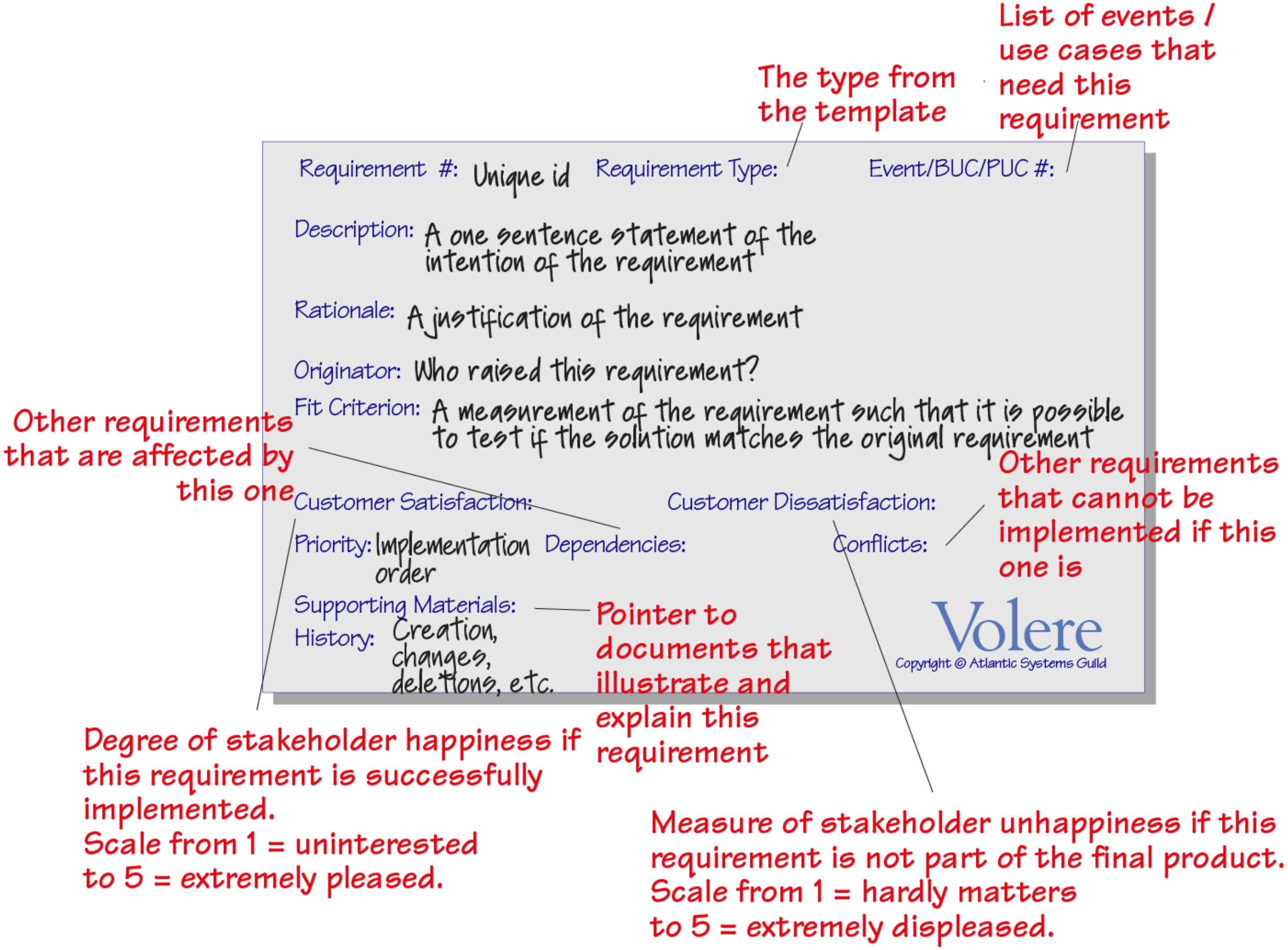
Volere Requirements Specification Template

Project Requirements

1. *Constraints* — constraints on the eventual design of the product
2. *Functional Requirements* — specification for each atomic functional requirement
3. *Non-functional Requirements* — look & feel, usability, performance, operational, maintainability, security, cultural and compliance requirements

Volere Requirements Specification Template

Requirements Shell



Requirement #: Unique id
Requirement Type:
Event/BUC/PUC #:

Description: A one sentence statement of the intention of the requirement

Rationale: A justification of the requirement

Originator: Who raised this requirement?

Fit Criterion: A measurement of the requirement such that it is possible to test if the solution matches the original requirement

Customer Satisfaction:
Customer Dissatisfaction:

Priority: Implementation order
Dependencies:
Conflicts:

Supporting Materials:

History: Creation, changes, deletions, etc.

The type from the template

List of events / use cases that need this requirement

Other requirements that are affected by this one

Other requirements that cannot be implemented if this one is

Pointer to documents that illustrate and explain this requirement

Degree of stakeholder happiness if this requirement is successfully implemented.
Scale from 1 = uninterested to 5 = extremely pleased.

Measure of stakeholder unhappiness if this requirement is not part of the final product.
Scale from 1 = hardly matters to 5 = extremely displeased.

Volere Requirements Specification Template

Project Issues

1. *Open Issues*
2. *Off-the-Shelf Solutions*
3. *New Problems*
4. *Tasks*
5. *Migration to the New Product*
6. *Risks*
7. *Costs*
8. *User Documentation and Training*
9. *Waiting Room*
10. *Ideas for Solutions*

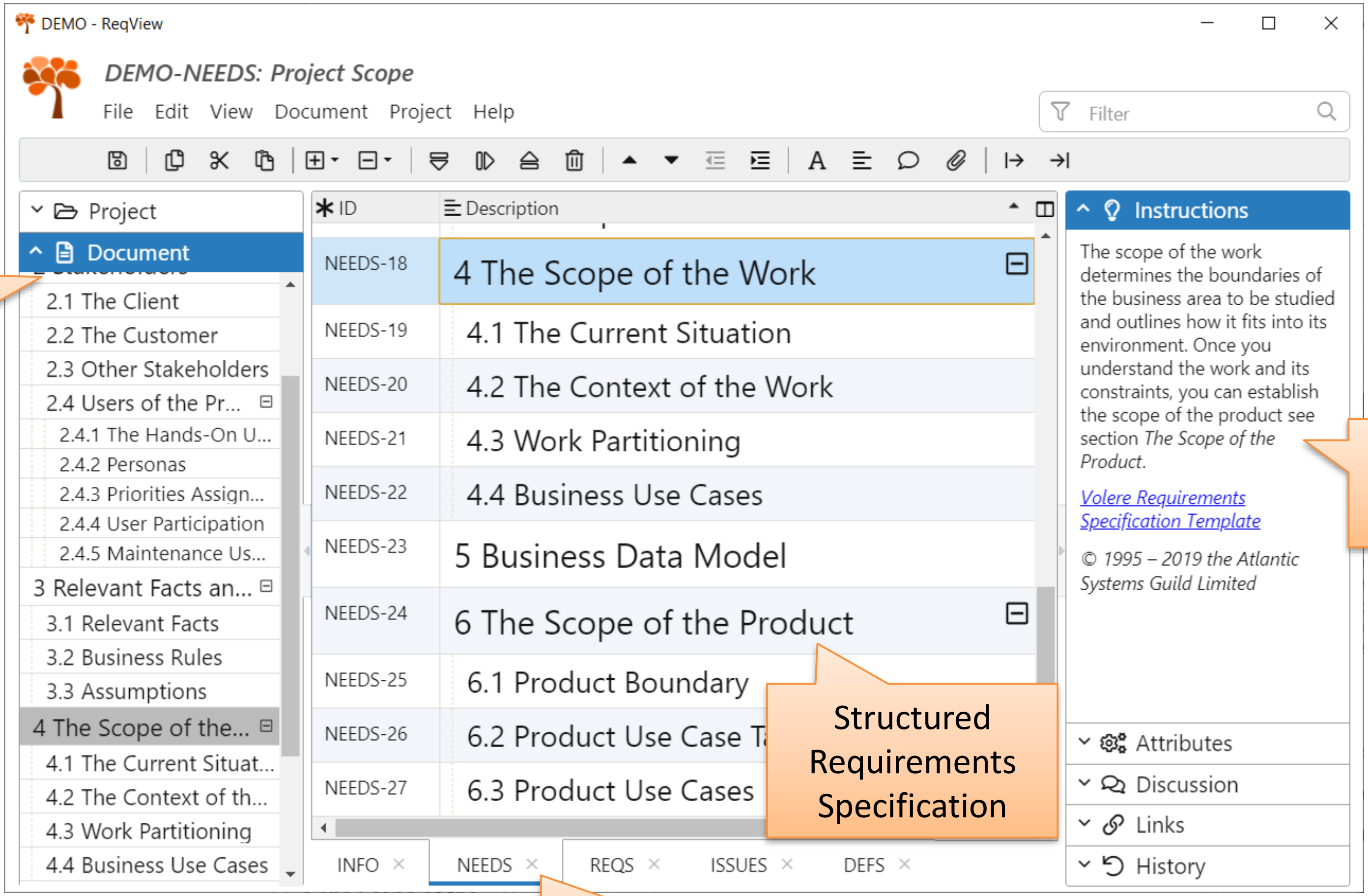
Volere Requirements Specification Template

Naming Conventions and Definitions

1. *Glossary* — meanings of all names, acronyms, and abbreviations used by the stakeholders
2. *Data Dictionary* — the data inputs and outputs specified as you define detailed atomic requirements

Volere Requirements Specification Template

ReqView Implementation


DEMO - ReqView
File
Edit
View
Document
Project
Help
Filter
Project
Document

DEMO-NEEDS: *Project Scope*

- 2.1 The Client
- 2.2 The Customer
- 2.3 Other Stakeholders
- 2.4 Users of the Pr...
  - 2.4.1 The Hands-On U...
  - 2.4.2 Personas
  - 2.4.3 Priorities Assign...
  - 2.4.4 User Participation
  - 2.4.5 Maintenance Us...
- 3 Relevant Facts an...
  - 3.1 Relevant Facts
  - 3.2 Business Rules
  - 3.3 Assumptions
- 4 The Scope of the...
  - 4.1 The Current Situat...
  - 4.2 The Context of th...
  - 4.3 Work Partitioning
  - 4.4 Business Use Cases

ID	Description
NEEDS-18	4 The Scope of the Work
NEEDS-19	4.1 The Current Situation
NEEDS-20	4.2 The Context of the Work
NEEDS-21	4.3 Work Partitioning
NEEDS-22	4.4 Business Use Cases
NEEDS-23	5 Business Data Model
NEEDS-24	6 The Scope of the Product
NEEDS-25	6.1 Product Boundary
NEEDS-26	6.2 Product Use Case T
NEEDS-27	6.3 Product Use Cases

Instructions

The scope of the work determines the boundaries of the business area to be studied and outlines how it fits into its environment. Once you understand the work and its constraints, you can establish the scope of the product see section *The Scope of the Product*.

Volere Requirements Specification Template

© 1995 – 2019 the Atlantic Systems Guild Limited

Attributes
Discussion
Links
History
INFO ×
NEEDS ×
REQS ×
ISSUES ×
DEFS ×

Document Sections

Template Instructions

Structured Requirements Specification

Requirements Documents

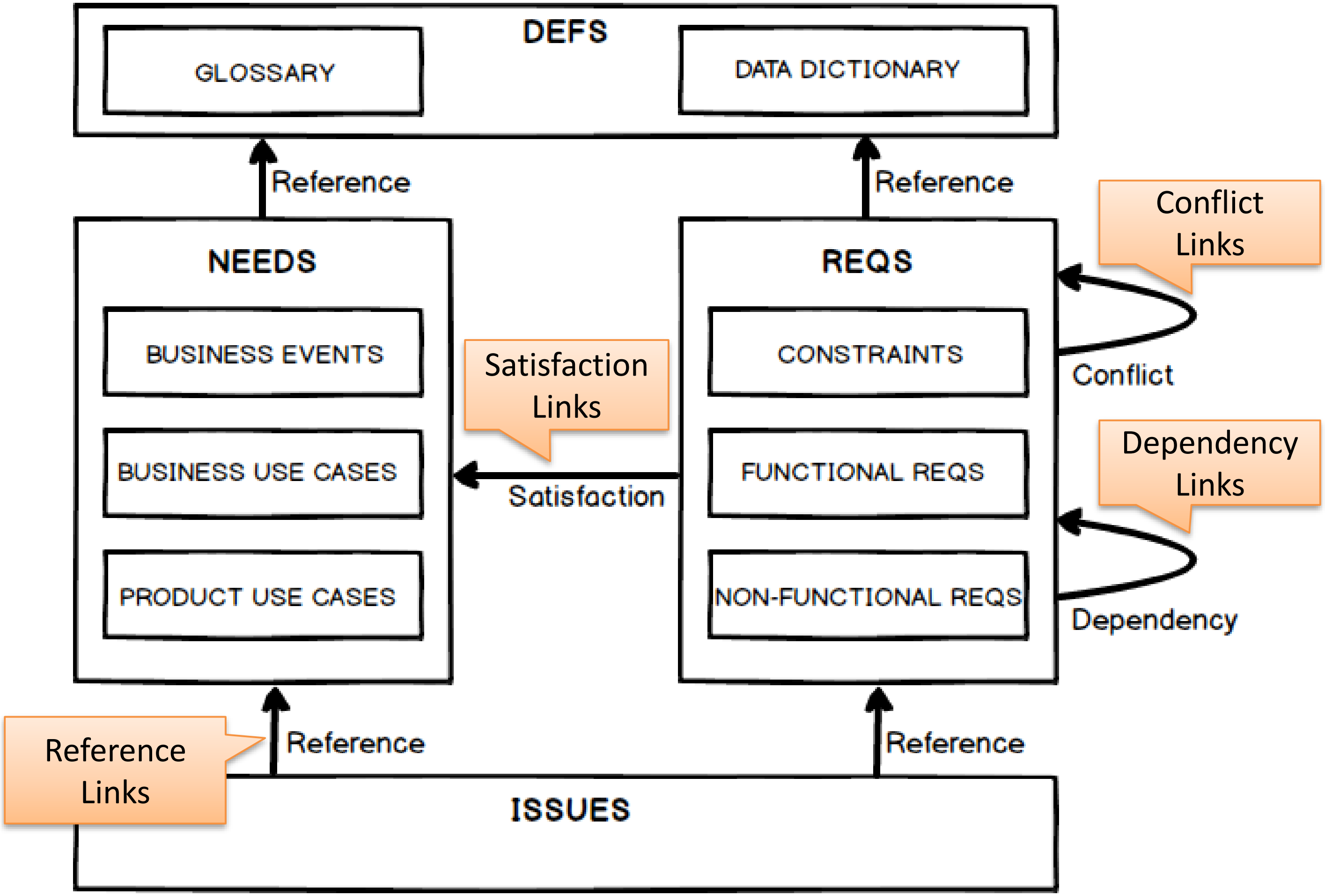
Volere Requirements Specification Template

Requirements Attributes

- Id (string)
- Heading (string)
- Text (xhtml)
- Rationale (xhtml)
- Originator (string)
- Fit Criterion (xhtml)
- Materials (xhtml)
- Type (enum)
- Status (enum)
- Customer Dissatisfaction (int)
- Customer Satisfaction (int)

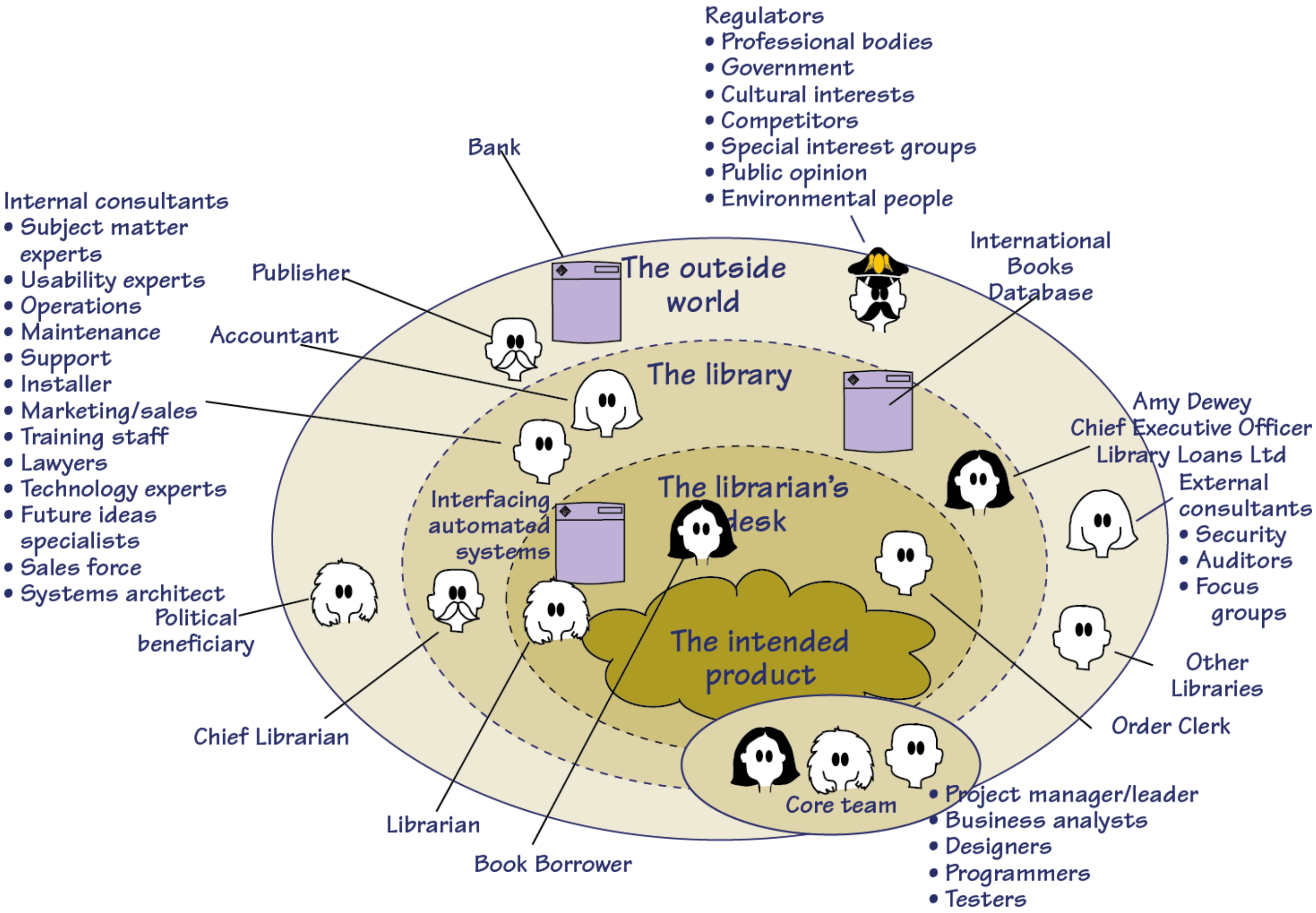
Volere Requirements Specification Template

Requirements Traceability Links


DEFS
GLOSSARY
DATA DICTIONARY
Reference
Reference
Conflict Links
NEEDS
BUSINESS EVENTS
BUSINESS USE CASES
PRODUCT USE CASES
Satisfaction Links
Satisfaction
REQS
CONSTRAINTS
FUNCTIONAL REQS
NON-FUNCTIONAL REQS
Conflict
Dependency Links
Dependency
Reference Links
Reference
Reference
ISSUES

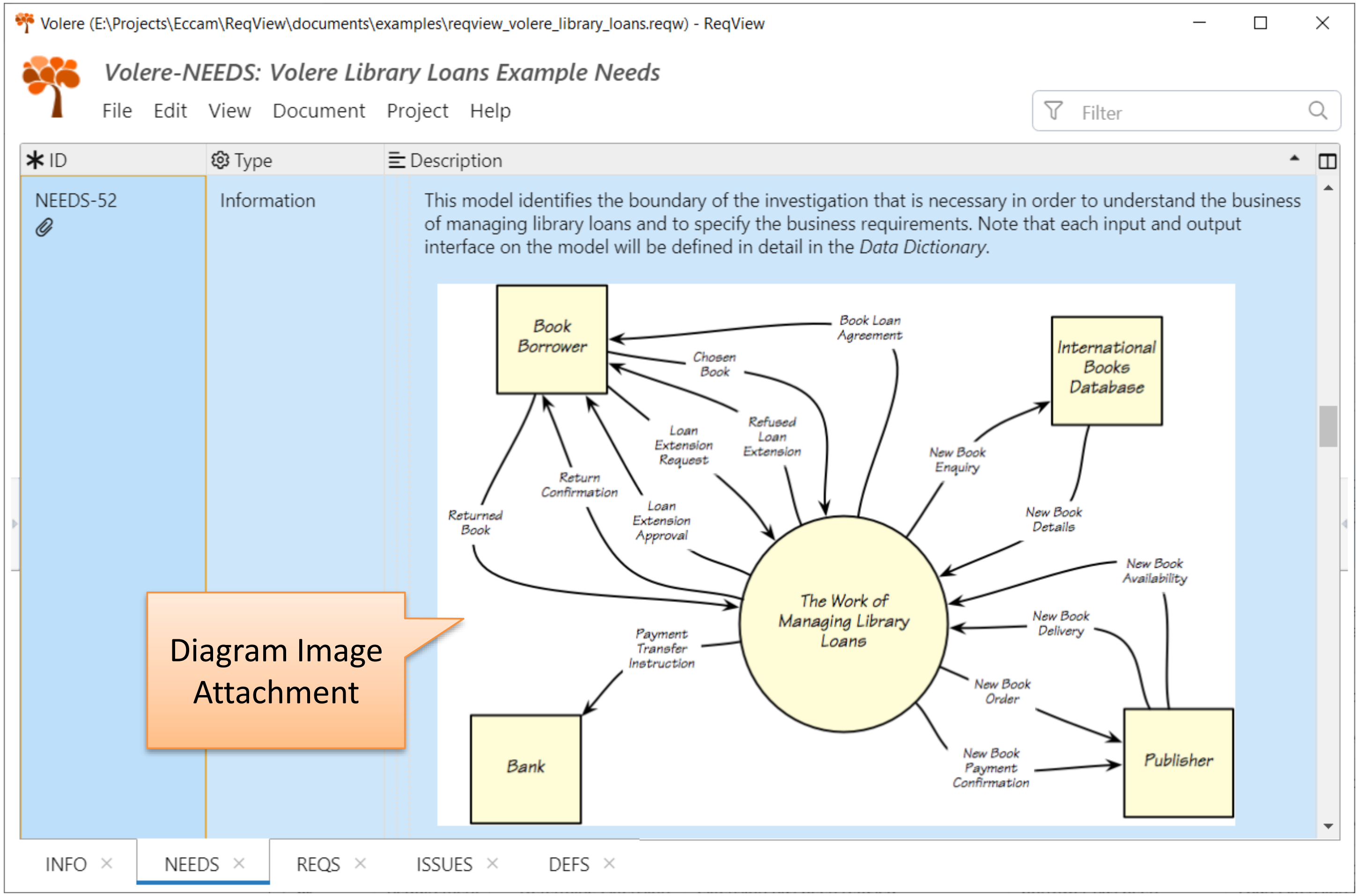
Volere Requirements Specification Template

Library Loans Example: Stakeholders


Regulators
• Professional bodies
• Government
• Cultural interests
• Competitors
• Special interest groups
• Public opinion
• Environmental people
Bank
Internal consultants
• Subject matter experts
• Usability experts
• Operations
• Maintenance
• Support
• Installer
• Marketing/sales
• Training staff
• Lawyers
• Technology experts
• Future ideas specialists
• Sales force
• Systems architect
Publisher
Accountant
The outside world
International Books Database
The library
Amy Dewey
Chief Executive Officer
Library Loans Ltd
External consultants
• Security
• Auditors
• Focus groups
Interfacing automated systems
The librarian's desk
Political beneficiary
The intended product
Other Libraries
Order Clerk
Chief Librarian
Core team
• Project manager/leader
• Business analysts
• Designers
• Programmers
• Testers
Librarian
Book Borrower

Volere Requirements Specification Template

Library Loans Example: Context Diagram

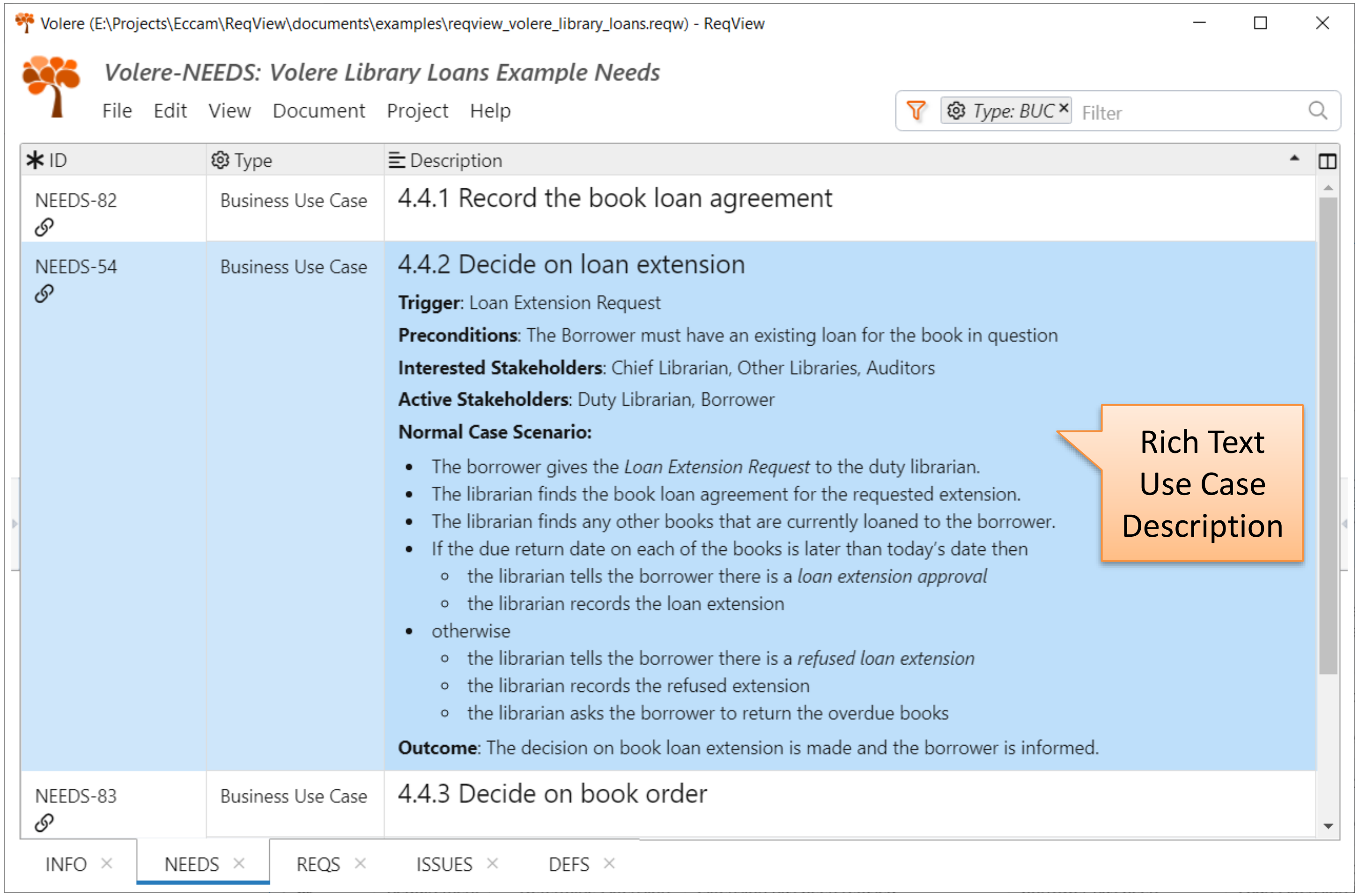

Volere (E:\Projects\Eccam\ReqView\documents\examples\reqview_volere_library_loans.reqw) - ReqView
Volere-NEEDS: Volere Library Loans Example Needs
File
Edit
View
Document
Project
Help
Filter
ID
Type
Description
INFO
NEEDS
REQS
ISSUES
DEFS
Book Borrower
Book Loan Agreement
Chosen Book
Refused Loan Extension
Loan Extension Request
Return Confirmation
Loan Extension Approval
Returned Book
International Books Database
New Book Enquiry
New Book Details
New Book Availability
New Book Delivery
New Book Order
New Book Payment Confirmation
The Work of Managing Library Loans
Payment Transfer Instruction
Bank
Publisher

ID	Type	Description
NEEDS-52	Information	This model identifies the boundary of the investigation that is necessary in order to understand the business of managing library loans and to specify the business requirements. Note that each input and output interface on the model will be defined in detail in the *Data Dictionary*.

Diagram Image Attachment

Volere Requirements Specification Template

Library Loans Example: Business Use Cases

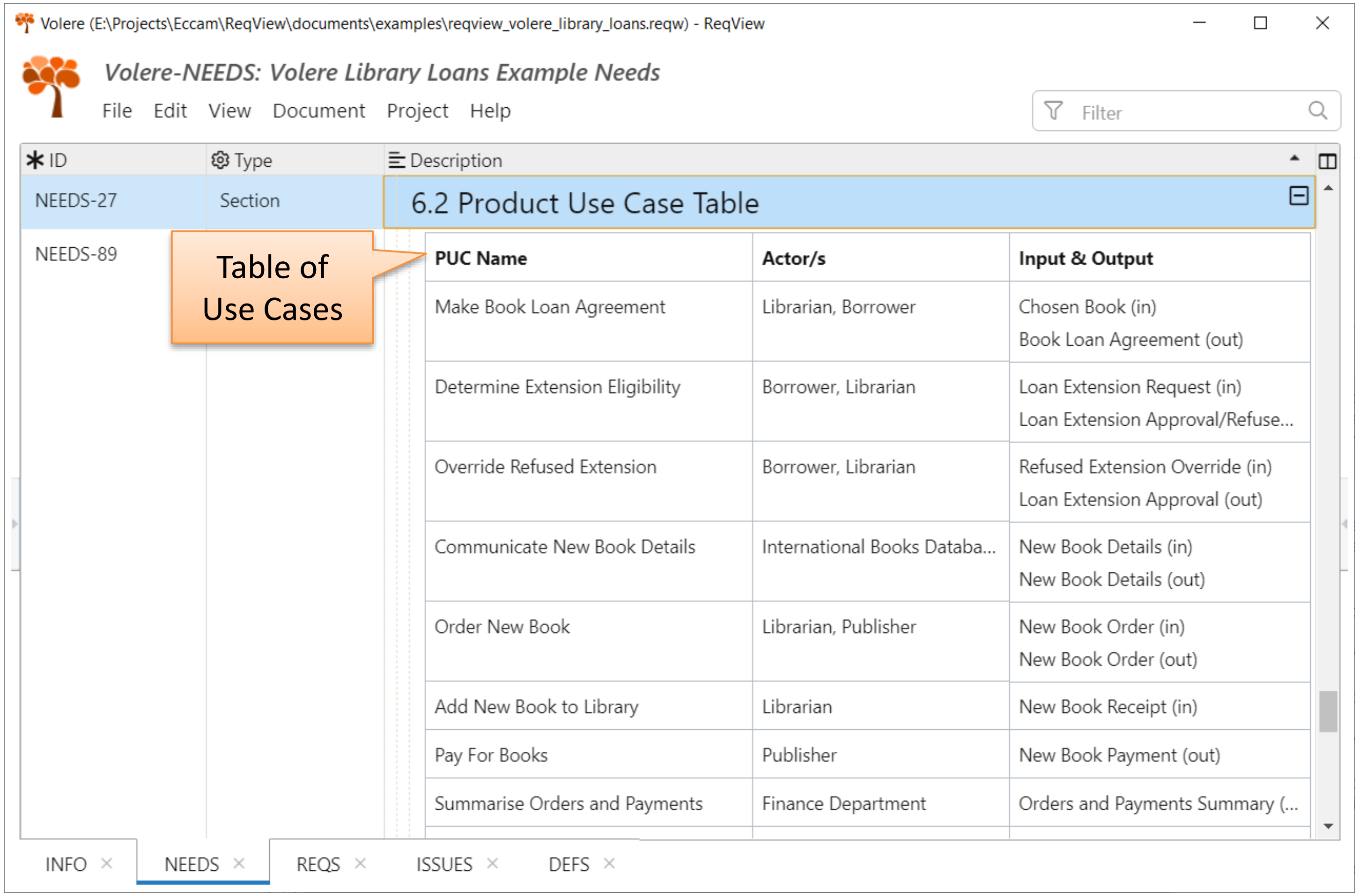

Volere (E:\Projects\Eccam\ReqView\documents\examples\reqview_volere_library_loans.reqw) - ReqView
Volere-NEEDS: Volere Library Loans Example Needs
File
Edit
View
Document
Project
Help
Type: BUC
Filter
INFO
NEEDS
REQS
ISSUES
DEFS

ID	Type	Description
NEEDS-82	Business Use Case	4.4.1 Record the book loan agreement
NEEDS-54	Business Use Case	4.4.2 Decide on loan extension **Trigger**: Loan Extension Request **Preconditions**: The Borrower must have an existing loan for the book in question **Interested Stakeholders**: Chief Librarian, Other Libraries, Auditors **Active Stakeholders**: Duty Librarian, Borrower **Normal Case Scenario:** • The borrower gives the *Loan Extension Request* to the duty librarian. • The librarian finds the book loan agreement for the requested extension. • The librarian finds any other books that are currently loaned to the borrower. • If the due return date on each of the books is later than today's date then ○ the librarian tells the borrower there is a *loan extension approval* ○ the librarian records the loan extension • otherwise ○ the librarian tells the borrower there is a *refused loan extension* ○ the librarian records the refused extension ○ the librarian asks the borrower to return the overdue books **Outcome**: The decision on book loan extension is made and the borrower is informed.
NEEDS-83	Business Use Case	4.4.3 Decide on book order

Rich Text Use Case Description

Volere Requirements Specification Template

Library Loans Example: Product Use Cases


Volere (E:\Projects\Eccam\ReqView\documents\examples\reqview_volere_library_loans.reqw) - ReqView
Volere-NEEDS: Volere Library Loans Example Needs
File
Edit
View
Document
Project
Help
Filter
ID
Type
Description
INFO
NEEDS
REQS
ISSUES
DEFS

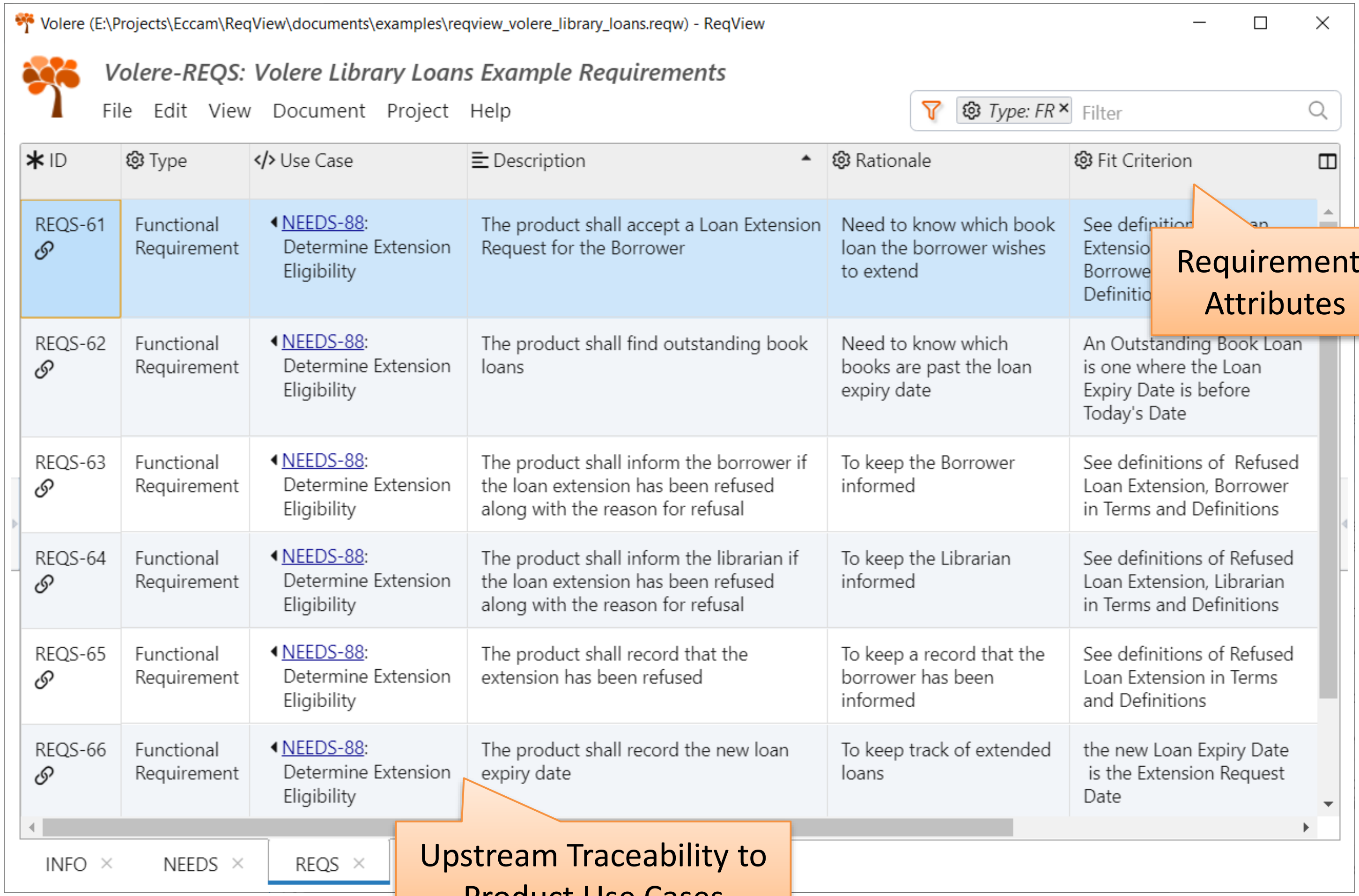
ID	Type	Description
NEEDS-27	Section	6.2 Product Use Case Table
NEEDS-89		

Table of Use Cases

PUC Name	Actor/s	Input & Output
Make Book Loan Agreement	Librarian, Borrower	Chosen Book (in) Book Loan Agreement (out)
Determine Extension Eligibility	Borrower, Librarian	Loan Extension Request (in) Loan Extension Approval/Refuse...
Override Refused Extension	Borrower, Librarian	Refused Extension Override (in) Loan Extension Approval (out)
Communicate New Book Details	International Books Databa...	New Book Details (in) New Book Details (out)
Order New Book	Librarian, Publisher	New Book Order (in) New Book Order (out)
Add New Book to Library	Librarian	New Book Receipt (in)
Pay For Books	Publisher	New Book Payment (out)
Summarise Orders and Payments	Finance Department	Orders and Payments Summary (...

Volere Requirements Specification Template

Library Loans Example: Requirements


Volere (E:\Projects\Eccam\ReqView\documents\examples\reqview_volere_library_loans.reqw) - ReqView
Volere-REQS: Volere Library Loans Example Requirements
File
Edit
View
Document
Project
Help
Type: FR
Filter
INFO
NEEDS
REQS

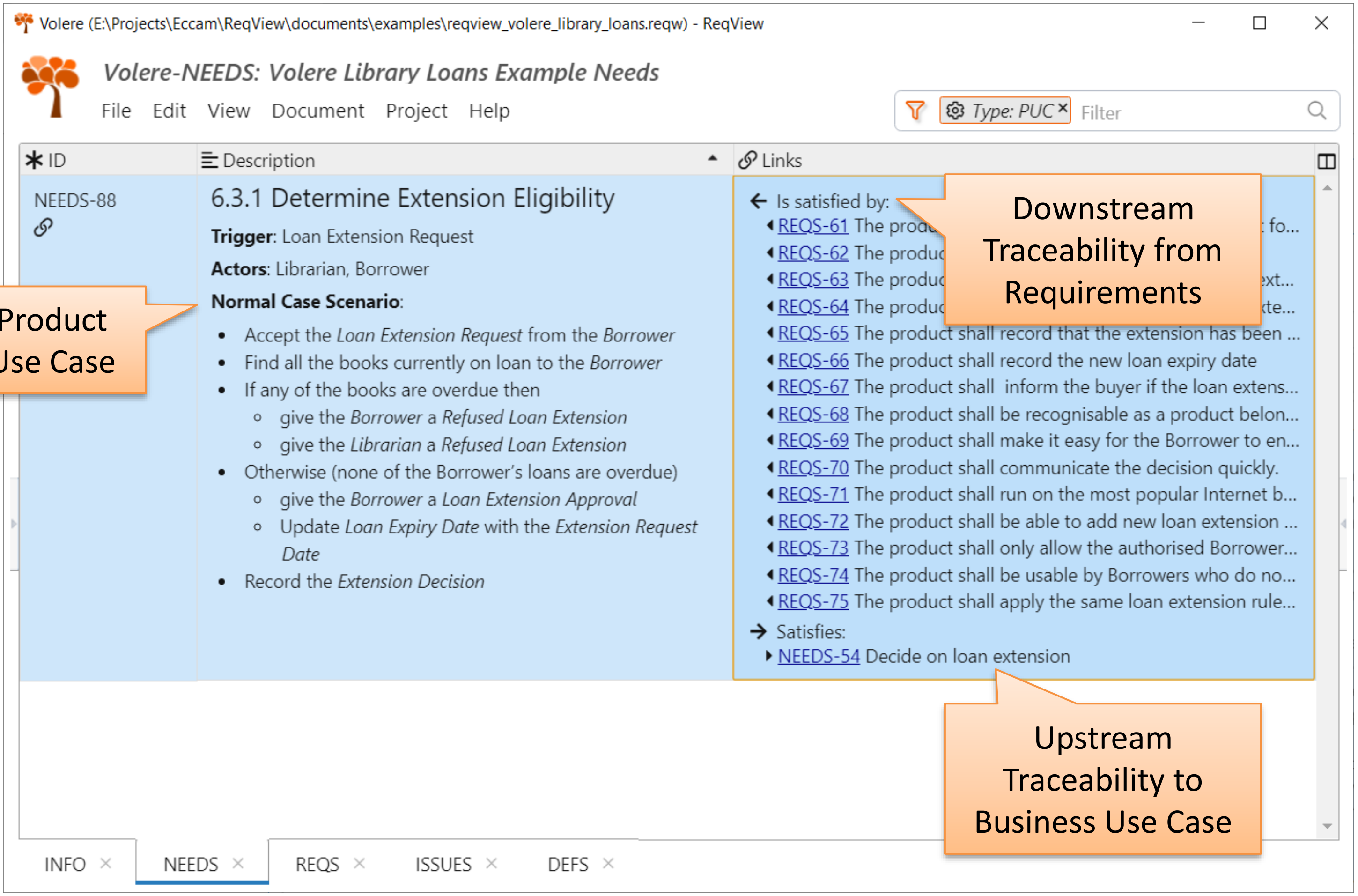
ID	Type	Use Case	Description	Rationale	Fit Criterion
REQS-61	Functional Requirement	NEEDS-88: Determine Extension Eligibility	The product shall accept a Loan Extension Request for the Borrower	Need to know which book loan the borrower wishes to extend	See definition an Extensio Borrowe Definitio
REQS-62	Functional Requirement	NEEDS-88: Determine Extension Eligibility	The product shall find outstanding book loans	Need to know which books are past the loan expiry date	An Outstanding Book Loan is one where the Loan Expiry Date is before Today's Date
REQS-63	Functional Requirement	NEEDS-88: Determine Extension Eligibility	The product shall inform the borrower if the loan extension has been refused along with the reason for refusal	To keep the Borrower informed	See definitions of Refused Loan Extension, Borrower in Terms and Definitions
REQS-64	Functional Requirement	NEEDS-88: Determine Extension Eligibility	The product shall inform the librarian if the loan extension has been refused along with the reason for refusal	To keep the Librarian informed	See definitions of Refused Loan Extension, Librarian in Terms and Definitions
REQS-65	Functional Requirement	NEEDS-88: Determine Extension Eligibility	The product shall record that the extension has been refused	To keep a record that the borrower has been informed	See definitions of Refused Loan Extension in Terms and Definitions
REQS-66	Functional Requirement	NEEDS-88: Determine Extension Eligibility	The product shall record the new loan expiry date	To keep track of extended loans	the new Loan Expiry Date is the Extension Request Date

Requirements Attributes

Upstream Traceability to Product Use Cases

Volere Requirements Specification Template

Library Loans Example: Traceability


Volere (E:\Projects\Eccam\ReqView\documents\examples\reqview_volere_library_loans.reqw) - ReqView
Volere-NEEDS: Volere Library Loans Example Needs
File
Edit
View
Document
Project
Help
Type: PUC
Filter
ID
Description
Links
INFO
NEEDS
REQS
ISSUES
DEFS

NEEDS-88

6.3.1 Determine Extension Eligibility

Trigger: Loan Extension Request

Actors: Librarian, Borrower

Normal Case Scenario:

- Accept the *Loan Extension Request* from the *Borrower*
- Find all the books currently on loan to the *Borrower*
- If any of the books are overdue then
  - give the *Borrower* a *Refused Loan Extension*
  - give the *Librarian* a *Refused Loan Extension*
- Otherwise (none of the Borrower's loans are overdue)
  - give the *Borrower* a *Loan Extension Approval*
  - Update *Loan Expiry Date* with the *Extension Request Date*
- Record the *Extension Decision*

Is satisfied by:

- REQS-61 The prod… fo...
- REQS-62 The produ…
- REQS-63 The produ… ext...
- REQS-64 The produ… xte...
- REQS-65 The product shall record that the extension has been ...
- REQS-66 The product shall record the new loan expiry date
- REQS-67 The product shall inform the buyer if the loan extens...
- REQS-68 The product shall be recognisable as a product belon...
- REQS-69 The product shall make it easy for the Borrower to en...
- REQS-70 The product shall communicate the decision quickly.
- REQS-71 The product shall run on the most popular Internet b...
- REQS-72 The product shall be able to add new loan extension ...
- REQS-73 The product shall only allow the authorised Borrower...
- REQS-74 The product shall be usable by Borrowers who do no...
- REQS-75 The product shall apply the same loan extension rule...

Satisfies:

- NEEDS-54 Decide on loan extension

Product Use Case

Downstream Traceability from Requirements

Upstream Traceability to Business Use Case

Online References

- ReqView Homepage
- ReqView FREE Web App
- ReqView Documentation
- ReqView Blog

- Volere Homepage
- Volere Requirements Specification Template
- Mastering the Requirements Process
- Volere FAQs
- Volere Case Studies

Contact Us