D1.6.2 Software Requirements Document (SRD)

ModelWriter

Text & Model-Synchronized Document Engineering Platform

Project number: ITEA 2 13028
Work Package: WP1
Task: T1.6 – Consolidated Software Requirements and Review

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Document History

Version	Author(s)	Date	Remarks
0.1.0	Ferhat Erata Moharram Challenger	30-Apr-2015	Draft
0.5.0	Serhat Çelik Hasan Emre Kırmızı Ümit Anıl Öztürk	24-Aug-2015	Updating the list of deliverables from GitHub
1.0.0	Moharram Challenger	24-Aug-2015	Release
1.0.1	Ferhat Erata	25-Aug-2015	Minor modifications

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https://github.com/ModelWriter/Project-Management/issues/11

1. Introduction

1.1. Role of the deliverable

A common **Software Requirements Document** (SRD, alias D1.6.2) derived from the previous User Requirements Document will identify and prioritize the functional and non-functional requirements for the ModelWriter IDE, addressing the selected User Requirements. This SRD will also include the technical environment necessary e.g. for Task T6.7 from OBEO.

A progress meeting chaired by UNIT (but hosted by SOGETI) was organized for the technology developers (represented by WP2 to WP4 leaders) to share and explain to all participating project partners what are the ModelWriter platform features and non-functional requirements which are proposed for research and implementation

This document is the first version of the software requirements collected from technical work packages. It may be up-dated depending on the further details and requirements.

The **Software Requirements Document** (SRD) (D1.6.2) is automatically compiled from the issue list of the public "Requirements" repository of ModelWriter's GitHub organization[1]. The information about confirmed requirements and the prioritization of the requirements are programmatically gathered from the public 'waffle' scrum board of the "Requirements" repository[2].

1.2. The List of Technical Work Packages

UC Code	Requirements derived from
WP2	Semantic Parsing and Generation of Documents and Documents Components
WP3	Model to/from Knowledge Base (synchronization mechanism)
WP4	Knowledge Base Design and Implementation
WP6	Architecture, Integration and Evaluation

1.3. The List of Use Cases

UC Code	Requirements derived from
UC-FR-01	Synchronization between Models and Documentation
UC-FR-02	Enterprise Architecture

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[1] https://github.com/ModelWriter/Requirements/issues
[2] https://waffle.io/modelwriter/requirements

UC Code	Requirements derived from
UC-FR-03	Synchronization of regulation documentation with a design rule repository
UC-FR-04	Production of a context specific design document
UC-TR-01	Production of a proposal in response to an IPA Invitation To Tender
UC-TR-02	Collaborative production of a proposal for an IPA project
UC-TR-03	Synchronization of ReqIF/Clafer models with requirement specifications
UC-TR-04	Requirement Engineering for System Modelling
UC-TR-05	Synchronous Business Process Design with Use Cases
UC-BE-01	Requirements IT
UC-BE-02	Automated Test Generation

1.4. Conventions

The requirements are prefixed by "REQ-SR-WPz-xxx", and are written in a roman typeface, where "REQ" stands for "Requirement", "SR" indicates "Software Requirements", "z" stands for the number of work package where the requirement is originated and "xxx" is the positive integer identifier of the requirement. You can add this id (xxx) which is unique entire 'requirements' repository, at the end of https://github.com/ModelWriter/Requirements/issues/ to access the latest version of the requirement.

1.5. Structure of the document

This document is organized as follows:
- Chapter 1 introduces the document.
- Chapter 2 describes each requirements.

1.6. Terms, abbreviations and definitions

Abbreviation	Definition
RDF	Resource Description Framework
WP	Work Package
UC	Use Case
BPMN	Business Process Monde & Notation
ReqIF	Requirements Interchange Format
RMF	Requirements Modeling Framework
SBVR	Semantics Of Business Vocabulary And Rules

2. Software Requirements

2.1. REQ-UR-WP2-115 [Mandatory]

Generator

Description:
Required by #109 (Reversible-Semantic-Engine)
Maps data to text using Lexicon and Grammar
Related to:
https://github.com/ModelWriter/Requirements/issues/109
URI: https://github.com/ModelWriter/Requirements/issues/115
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.2. REQ-UR-WP2-114 [Mandatory]

Parser

Description:
Required by #109 (Reversible-Semantic-Engine)
Maps text to data using Lexicon and Grammar
Related to:
https://github.com/ModelWriter/Requirements/issues/109
URI: https://github.com/ModelWriter/Requirements/issues/114
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.3. REQ-UR-WP2-113 [Desirable]

Grammar-Extractor

Description:
Required by #109 (Reversible-Semantic-Engine)
Induces Grammar from semantically annotated, parsed text
Related to:
https://github.com/ModelWriter/Requirements/issues/109
URI: https://github.com/ModelWriter/Requirements/issues/113
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.4. REQ-UR-WP2-112 [Mandatory]

Grammar

Description:
Required by #109 (Reversible-Semantic-Engine)
A data structure describing the syntax of natural language
Related to:
https://github.com/ModelWriter/Requirements/issues/109
URI: https://github.com/ModelWriter/Requirements/issues/112
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.5. REQ-UR-WP2-111 [Desirable]

Lexicon-Extractor

Description:
Alternative to #110 (Lexicon)
Extracts Lexicon from semantically annotated, parsed text
Related to:
https://github.com/ModelWriter/Requirements/issues/110
URI: https://github.com/ModelWriter/Requirements/issues/111
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.6. REQ-UR-WP2-110 [Mandatory]

Lexicon

Description:
Required by #109 (Reversible-Semantic-Engine)
A data structure mapping words and model elements to grammar units
Related to:
https://github.com/ModelWriter/Requirements/issues/109
URI: https://github.com/ModelWriter/Requirements/issues/110
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.7. REQ-UR-WP2-109 [Mandatory]

Reversible-Semantic-Engine

Description:
Required by #68 (Semantic Processor)
An independent system which maps text to data and data to text
Related to:
https://github.com/ModelWriter/Requirements/issues/68
URI: https://github.com/ModelWriter/Requirements/issues/109
Created: 16.09.2015

Created By: scruzlara
Assignee: ClaireEMG

2.8. REQ-UR-WP2-108 [Mandatory]

Domain-Ontology

Description:
Required by #103 (Semantic-Analyser)
Domain specific ontology
Related to:
https://github.com/ModelWriter/Requirements/issues/103
URI: https://github.com/ModelWriter/Requirements/issues/108
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.9. REQ-UR-WP2-107 [Desirable]

Rule-Identifier

Description:
Required by #103 (Semantic-Analyser)
Identifies natural language segments in free text which encode SIDP rules
Related to:
https://github.com/ModelWriter/Requirements/issues/103
URI: https://github.com/ModelWriter/Requirements/issues/107
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.10. REQ-UR-WP2-106 [Desirable]

Term-Extractor

Description:
Required by #103 (Semantic-Analyser)
Extracts domain specific terms from text and groups them into synonymic sets
Related to:
https://github.com/ModelWriter/Requirements/issues/103
URI: https://github.com/ModelWriter/Requirements/issues/106
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.11. REQ-UR-WP2-105 [Mandatory]

Relation-Extractor

Description:
Required by #103 (Semantic-Analyser)
Extracts (subject,relation,object) data triples from text
Related to:
https://github.com/ModelWriter/Requirements/issues/103
URI: https://github.com/ModelWriter/Requirements/issues/105
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.12. REQ-UR-WP2-104 [Mandatory]

Term-Detector

Description:
Required by #103 (Semantic-Analyser)
Identifies terms i.e., words/collocations which denote elements (concepts, relations) of the domain ontology or of the input model
Related to:
https://github.com/ModelWriter/Requirements/issues/103
URI: https://github.com/ModelWriter/Requirements/issues/104
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.13. REQ-UR-WP2-103 [Mandatory]

Semantic-Analyser

Description:
Required by #68 (Semantic Processor)
An independent system which maps text to data that can be queried and reasoned with
Related to:
https://github.com/ModelWriter/Requirements/issues/68
URI: https://github.com/ModelWriter/Requirements/issues/103
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.14. REQ-UR-WP2-102 [Mandatory]

Model or Knowledge Base

Description:
Required by #69 (Semantic-Annotator)
A list of model or KB elements with which the text must be annotated
Related to:
https://github.com/ModelWriter/Requirements/issues/69
URI: https://github.com/ModelWriter/Requirements/issues/102

Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.15. REQ-UR-WP2-101 [Mandatory]

Annotator

Description:
Required by #69 (Semantic-Annotator)
Labels words/collocation with matching model elements
Related to:
https://github.com/ModelWriter/Requirements/issues/69
URI: https://github.com/ModelWriter/Requirements/issues/101
Created: 16.09.2015
Created By: scruzlara
Assignee: scruzlara

2.16. REQ-UR-WP2-100 [Mandatory]

Tokenizer

Description:
Required by #69 (Semantic-Annotator)
Segment sentences into words/collocations
Related to:
https://github.com/ModelWriter/Requirements/issues/69
URI: https://github.com/ModelWriter/Requirements/issues/100
Created: 16.09.2015
Created By: scruzlara
Assignee: scruzlara

2.17. REQ-UR-WP2-99 [Mandatory]

Sentence-Segmenter

Description:
Required by #69 (Semantic-Annotator)
Segments text into sentences
Related to:
https://github.com/ModelWriter/Requirements/issues/69
URI: https://github.com/ModelWriter/Requirements/issues/99
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.18. REQ-UR-WP2-98 [Mandatory]

Convertor

Description:
Required by #69 (Semantic-Annotator)
Converts document (html, xlsx, xml, etc.) to text
Related to:
https://github.com/ModelWriter/Requirements/issues/69
URI: https://github.com/ModelWriter/Requirements/issues/98
Created: 16.09.2015
Created By: scruzlara
Assignee: ClaireEMG

2.19. REQ-UR-WP3-97 [Mandatory]

Show the markers which have been filtered according to selected relation type and selected marker

Description:
URI: https://github.com/ModelWriter/Requirements/issues/97
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.20. REQ-UR-WP3-96 [Mandatory]

Show filtered relation types according to selected marker type

Description:
URI: https://github.com/ModelWriter/Requirements/issues/96
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.21. REQ-UR-WP3-95 [Mandatory]

The specification formalism must support First-order Logic constraints

Description:
URI: https://github.com/ModelWriter/Requirements/issues/95
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.22. REQ-UR-WP3-94 [Mandatory]

Markers and links (mappings) shall be able to specify by the user in a declarative way

Description:
URI: https://github.com/ModelWriter/Requirements/issues/94
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.23. REQ-UR-WP3-93 [Mandatory]

User shall be able to mark an element which inherits 'ENamedElement' on an Eclipse Ecore Editor

Description:
User shall be able to mark an EMF model element on EcoreEditor/EMF Reflective Editor.

plugin: org.eclipse.emf.ecore.editor
editor: org.eclipse.emf.ecore.presentation.EcoreEditor

  User shall be able to mark a EMF model element on Generic EMF Form Editor.

plugin: org.eclipse.emf.generic.editor
editor: org.eclipse.emf.editor.EEditor
URI: https://github.com/ModelWriter/Requirements/issues/93
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.24. REQ-UR-WP3-92 [Mandatory]

Virtualize markers and their relations.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/92
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.25. REQ-UR-WP3-91 [Mandatory]

The System shall persist a model marker and its state. The persistency formalism must align with set theory and relational calculus

Description:
URI: https://github.com/ModelWriter/Requirements/issues/91
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.26. REQ-UR-WP3-90 [Mandatory]

Show the filter on the project explorer view on the mapping wizard

Description:
URI: https://github.com/ModelWriter/Requirements/issues/90
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.27. REQ-UR-WP3-89 [Mandatory]

Show mapping between arbitrary model and text markings

Description:
URI: https://github.com/ModelWriter/Requirements/issues/89
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.28. REQ-UR-WP3-88 [Mandatory]

User shall be able to undo/redo markers and their states while working on Text editor

Description:
URI: https://github.com/ModelWriter/Requirements/issues/88
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.29. REQ-UR-WP3-87 [Mandatory]

Navigate and focus to markers through selected marker on Views

Description:
URI: https://github.com/ModelWriter/Requirements/issues/87
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.30. REQ-UR-WP3-86 [Mandatory]

User shall be able to undo/redo model markers and their states while working on Model editors

Description:
URI: https://github.com/ModelWriter/Requirements/issues/86
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.31. REQ-UR-WP3-85 [Mandatory]

The System shall persist a text marker and its state

Description:
URI: https://github.com/ModelWriter/Requirements/issues/85
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.32. REQ-UR-WP3-84 [Mandatory]

Show details of marker which is selected from Master View on the Properties View.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/84
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.33. REQ-UR-WP3-83 [Mandatory]

User shall be able to delete a marker which has been already marked by the 'Mark All' command by means of the 'Delete All' command to indicate that all the related markers should be also deleted

Description:
URI: https://github.com/ModelWriter/Requirements/issues/83
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.34. REQ-UR-WP3-82 [Mandatory]

Show source markers of selected marker on Source View

Description:
URI: https://github.com/ModelWriter/Requirements/issues/82
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.35. REQ-UR-WP3-81 [Mandatory]

User shall be able to mark a text fragment by the 'Mark All' command to indicate that all text fragments with the same syntax should be searched and marked as well as different representations of single entity

Description:

Although the system should assign unique IDs to all markers, another group ID should be also assigned.
URI: https://github.com/ModelWriter/Requirements/issues/81
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.36. REQ-UR-WP3-80 [Mandatory]

User shall be able to delete an 'ENamedElement' on the 'EcoreEditor'

Description:
Once an instance of 'EClass' is deleted, Markers on its EStructuralFeatures should be deleted.
Once an instance of 'EAttribute' is deleted, its marker should also be deleted.
Once an instance of 'EReference' is deleted, its marker should also be deleted.
Once an instance of 'EPackage' is deleted, all 'Subpackages', 'EClassifiers' and 'EStructuralFeatures' of those 'EPackage' should be deleted recursively.
URI: https://github.com/ModelWriter/Requirements/issues/80
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.37. REQ-UR-WP3-79 [Mandatory]

Show target markers of selected marker on Target View

Description:
URI: https://github.com/ModelWriter/Requirements/issues/79
Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.38. REQ-UR-WP3-78 [Mandatory]

Once an instance of EMF model is marked on the 'EcoreEditor', the offset and length of the corresponding XMI statement should be also marked

Description:
URI: https://github.com/ModelWriter/Requirements/issues/78
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.39. REQ-UR-WP3-77 [Mandatory]

User shall be able to delete any marker based on a valid text selection on the editor

Description:
Precondition: the text should be marked before deletion.

URI: https://github.com/ModelWriter/Requirements/issues/77
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.40. REQ-UR-WP3-76 [Mandatory]

User shall be able to mark OMG BPMN2.x model elements such as Gateways and Activities

Description:
URI: https://github.com/ModelWriter/Requirements/issues/76
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.41. REQ-UR-WP3-75 [Mandatory]

User shall be able to mark OMG ReqIF model elements such as 'SpecObject' and 'SpecHierarchy'

Description:
plugin: org.eclipse.rmf.reqif10.pror.editor (RMF is still in incubation phase)
editor: org.eclipse.rmf.reqif10.pror.editor.presentation.SpecificationEditor

selection: org.eclipse.rmf.reqif10.Specification
selection: org.eclipse.rmf.reqif10.SpecObject
selection: org.eclipse.rmf.reqif10.SpecHierarchy
URI: https://github.com/ModelWriter/Requirements/issues/75
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.42. REQ-UR-WP3-74 [Mandatory]

The system shall indicate text fragments or a model elements which are already linked by means of a kind of visual indicator

Description:
URI: https://github.com/ModelWriter/Requirements/issues/74
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.43. REQ-UR-WP3-73 [Mandatory]

Show ModelWriter Markers which marked current document on Master View

Description:
URI: https://github.com/ModelWriter/Requirements/issues/73

Created: 16.09.2015
Created By: anilozturk
Assignee: anilozturk

2.44. REQ-UR-WP3-72 [Mandatory]

User shall be able to see the start and end char positions of markers shifting while editing on the text editor

Description:
Offset and Length of markers should be updated while editing on the text editor.
URI: https://github.com/ModelWriter/Requirements/issues/72
Created: 16.09.2015
Created By: serhat93
Assignee: serhat93

2.45. REQ-UR-WP3-71 [Mandatory]

User shall be able to mark an element which inherits 'NamedElement' on an Eclipse UML Editor

Description:
User shall be able to mark a UML model element on the tree-based UML2 editor of Eclipse

plugin: org.eclipse.uml2.uml.editor
editor: org.eclipse.uml2.uml.editor.presentation.UMLEditor

selection: org.eclipse.uml2.uml.NamedElement

User shall be able to mark a UML model element on the free-form UML editor of Eclipse.

plugin: org.eclipse.papyrus.editor
editor: org.eclipse.papyrus.editor.PapyrusMultiDiagramEditor

User shall be able to mark a UML model element on the free form Sirius editor of Eclipse.

plugin: org.eclipse.sirius.diagram.ui.ext
editor: org.eclipse.sirius.diagram.ui.tools.internal.editor.DDiagramEditorImpl

selection:org.eclipse.emf.ecoretools.design.ui.parts.DNodeListEditPartWithAlpha
selection:org.eclipse.sirius.diagram.ui.internal.edit.parts.DNodeContainerEditPart

selection:org.eclipse.sirius.diagram.ui.internal.edit.parts.DNodeListEditPart
selection:org.eclipse.sirius.diagram.ui.internal.edit.parts.DEdgeEditPart
URI: https://github.com/ModelWriter/Requirements/issues/71
Created: 16.09.2015
Created By: emrekirmizi
Assignee: emrekirmizi

2.46. REQ-UR-WP3-70 [Mandatory]

User shall be able to mark any kind of textual documents on Eclipse Editor

Description:
User shall be able to mark text fragments on a Markdown, Wikitext.. file (Eclipse Wiki Editor).

plugin: org.eclipse.mylyn.wikitext.ui
editor: org.eclipse.mylyn.internal.wikitext.ui.editor.MarkupEditor

User shall be able to mark text fragments on a Java file (Eclipse JDT Java Editor).

plugin: org.eclipse.jdt.ui
editor: org.eclipse.jdt.internal.ui.javaeditor.CompilationUnitEditor

User shall be able to mark text fragments on an XML file (Eclipse XML Editor).

plugin: org.eclipse.wst.xml.ui
editor: org.eclipse.wst.xml.ui.internal.tabletree.XMLMultiPageEditorPart

User shall be able to mark text fragments on a Plain text file (Eclipse Text Editor).

plugin: org.eclipse.ui.editors
editor: org.eclipse.ui.editors.text.TextEditor

User shall be able to should mark text fragments on a Textual DSL (Eclipse Xtext Editor).

editor: org.eclipse.xtext.xbase.ui.editor.XbaseEditor
URI: https://github.com/ModelWriter/Requirements/issues/70
Created: 16.09.2015
Created By: ferhaterata
Assignee: serhat93

2.47. REQ-UR-WP2-69 [Mandatory]

Semantic-Annotator

Description:
Required by #68 (Semantic-Processor)
An independent system which annotates documents with model elements
Related to:
https://github.com/ModelWriter/Requirements/issues/68
URI: https://github.com/ModelWriter/Requirements/issues/69
Created: 16.09.2015
Created By: ferhaterata
Assignee: ClaireEMG

2.48. REQ-UR-WP2-68 [Mandatory]

Semantic-Processor

Description:
Requires: #69(Semantic-Annotator), #103(Semantic-Analyser), #109(Reversible-Semantic-Engine)
The NLP modules developed by ModelWriter for mapping text to data or data to text.
Related to:
https://github.com/ModelWriter/Requirements/issues/69
https://github.com/ModelWriter/Requirements/issues/103
https://github.com/ModelWriter/Requirements/issues/109
URI: https://github.com/ModelWriter/Requirements/issues/68
Created: 16.09.2015
Created By: ferhaterata
Assignee: ClaireEMG

2.49. REQ-UR-WP3-67

System transforms synchronization links, models and instances to RDF triples.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/67
Created: 10.07.2015
Created By: ferhaterata
Assignee: ferhaterata

2.50. REQ-UR-WP6-66

System provides several ways for the user to select text/model elements.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/66
Created: 10.07.2015
Created By: ferhaterata

Assignee: ferhaterata

2.51. REQ-UR-WP6-65

System provides several ways for the user to create links between the model and text elements.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/65
Created: 10.07.2015
Created By: ferhaterata
Assignee: ferhaterata

2.52. REQ-UR-WP2-64

Consistency Check of the synchronization links should be performed based on the Knowledge Base.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/64
Created: 10.07.2015
Created By: ferhaterata
Assignee: ClaireEMG

2.53. REQ-UR-WP2-63

System should suggest corresponding text-model mapping.

Description:
Model means concepts, individuals and relations in knowledge base.
URI: https://github.com/ModelWriter/Requirements/issues/63
Created: 10.07.2015
Created By: ferhaterata
Assignee: ferhaterata

2.54. REQ-UR-WP6-62 [Mandatory]

The system shall be a standalone

Description:
This is related to #29
Related to:
https://github.com/ModelWriter/Requirements/issues/29
URI: https://github.com/ModelWriter/Requirements/issues/62
Created: 28.05.2015
Created By: mrostren
Assignee: ylussaud

2.55. REQ-UR-WP6-61 [Mandatory]

The notification system shall indicate the desynchronization and the reconciliation failures

Description:
This requirement is related to the #28

All mappings desynchronization and all reconciliation failures must be indicated by displaying markers notification in the editor.
Related to:
https://github.com/ModelWriter/Requirements/issues/28
URI: https://github.com/ModelWriter/Requirements/issues/61
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.56. REQ-UR-WP6-60 [Optional]

The system shall provide an additional glossary view

Description:
This software requirement is related to #40 and to #59

The glossary shall display the list of all concepts used to map text parts of a document.

The selection of one or more concept in this view must display by highliting the related text parts.
Related to:
https://github.com/ModelWriter/Requirements/issues/40
https://github.com/ModelWriter/Requirements/issues/59
URI: https://github.com/ModelWriter/Requirements/issues/60
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.57. REQ-UR-WP6-59 [Mandatory]

The system shall provide an optional highlighting action to show mapped text parts in the editor

Description:
This software requirement is related to #40 and to #47

This requirement is mandatory to indicate all the text parts already mapped in the document.
Related to:
https://github.com/ModelWriter/Requirements/issues/40
https://github.com/ModelWriter/Requirements/issues/47
URI: https://github.com/ModelWriter/Requirements/issues/59
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.58. REQ-UR-WP6-57 [Mandatory]

The system shall store the mapping (text - concept) in the knowledge base

Description:
This software requirement is related to #47

The mapping must be resilient enough to localize correctly the text part and/or the concerned concept even after change. The changes will be defined later.
Related to:
https://github.com/ModelWriter/Requirements/issues/47
URI: https://github.com/ModelWriter/Requirements/issues/57
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.59. REQ-UR-WP6-56 [Mandatory]

The system shall provide a new keyboard shortcut to weave concepts and make mappings

Description:
This Software Requirement is related to the #48
It is also related to the mapping processing: #20
Related to:
https://github.com/ModelWriter/Requirements/issues/48
https://github.com/ModelWriter/Requirements/issues/20
URI: https://github.com/ModelWriter/Requirements/issues/56
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.60. REQ-UR-WP6-55 [Desirable]

The concepts proposal shall be provided in acceptable time for human being

Description:
This Software Requirement is related to the #48

This requirement is related to the Editor and to the Knowledge base response time as well.
Related to:
https://github.com/ModelWriter/Requirements/issues/48
URI: https://github.com/ModelWriter/Requirements/issues/55
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.61. REQ-UR-WP6-54 [Mandatory]

The Editor shall be able to display choices to facilitate the selection of concepts

Description:
This Software Requirement is related to the #48
Related to:
https://github.com/ModelWriter/Requirements/issues/48
URI: https://github.com/ModelWriter/Requirements/issues/54
Created: 28.05.2015
Created By: mrostren
Assignee: ferhaterata

2.62. REQ-UR-WP6-44

Text Connector should support Textile (textile) and/or Markdown (mw) standards.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/44
Created: 07.04.2015
Created By: ferhaterata
Assignee: ferhaterata

2.63. REQ-UR-WP6-43

Text Connector should support Office Open XML (docx) standard.

Description:
Traces ModelWriter/WP6#10.
Related to:
https://github.com/ModelWriter/WP6/issues/10
URI: https://github.com/ModelWriter/Requirements/issues/43
Created: 07.04.2015
Created By: ferhaterata
Assignee: ferhaterata

2.64. REQ-UR-24 [Mandatory]

The Documentation Editor shall not display explicitly links to the model

Description:
This software requirement is related to #47.

Since the explicit links in documents make the documentation unreadable, Modelwriter editor
MUST NOT display explicit links to the model(s) in the documentation(s).
Related to:
https://github.com/ModelWriter/Requirements/issues/47
URI: https://github.com/ModelWriter/Requirements/issues/24
Created: 20.01.2015

Created By: mrostren
Assignee: ferhaterata

2.65. REQ-UR-WP3-14

The TRAM will be able to compose transformations.

Description:
The TRAM will be able to compose transformations. For this purpose, a transformations chain is defined and the output of a transformation is the input for the subsequent ones in the transformation chain. This mechanism not only improves the extension of the ModelWriter transformation catalogue but it also facilitates the execution of complex batch transformation processes.
URI: https://github.com/ModelWriter/Requirements/issues/14
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.66. REQ-UR-WP3-13

The TRAM validates such parameters and also the input models before a transformation takes place.

Description:
The TRAM validates such parameters and also the input models before a transformation takes place. Also, the TRAM informs the users (persons or processes) about the progress of the transformation and which has been the result of it (e.g. degree of success, errors, warnings).
URI: https://github.com/ModelWriter/Requirements/issues/13
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.67. REQ-UR-WP3-12

A mechanism is needed to register the available transformations in ModelWriter

Description:
The Transformations Manager (TRAM) will be responsible for providing the infrastructure to launch each transformation included in its transformation registry. Thus a unique and homogeneous interface is provided for all them. The TRAM intends to facilitate the extension of ModelWriter because it will allow including new transformations or new versions of the existing ones in a simple way. The registry for each transformation contains the type of the transformation (model-to-model, model-to-text) and its parameters (which are the input models, the name of the output model, etc.).
URI: https://github.com/ModelWriter/Requirements/issues/12
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.68. REQ-UR-WP3-11

M2M Transformation Framework must synchronize the output models after its input models or configurations have been modified.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/11
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.69. REQ-UR-WP3-10

M2M Transformation Framework must keep traces between transformed models and its source models.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/10
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.70. REQ-UR-WP3-9

M2M Transformation Framework should compose simple transformations to obtain more complex ones.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/9
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.71. REQ-UR-WP3-8

M2M Transformation Framework should configure the transformations to be able to produce different outputs using the same inputs.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/8
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.72. REQ-UR-WP3-7

Transformation Manager shall obtain one or several output models from one or several input models.

Description:
URI: https://github.com/ModelWriter/Requirements/issues/7
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.73. REQ-UR-WP3-6

The Transformation Framework must be built on top of the Eclipse Modelling Framework (EMF)

Description:
The framework will be built on top of the Eclipse Modelling Framework (EMF) ecosystem in order to provide a standard technological infrastructure.
URI: https://github.com/ModelWriter/Requirements/issues/6
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.74. REQ-UR-WP3-5

Synchronization Manager Plug-in must be a component in the M2M Transformation Framework

Description:
Synchronization Manager Plug-in should trigger transformations when synchronization is needed.
URI: https://github.com/ModelWriter/Requirements/issues/5
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.75. REQ-UR-WP3-4

Traceability Manager (TRAM) Plug-in must be a component in the M2M Transformation Framework

Description:
Traceability Manager plug-in keeps links between elements of user-visible models and elements of the KB.

This task defines a mapping mechanism to link the elements of the input and output models. These links will allow the processes (transformations and synchronizations) to navigate among the related models. The proposed technologies for this task are the following: EMF for DSL definition, FEFEM for form-based editors, Epsilon.
URI: https://github.com/ModelWriter/Requirements/issues/4
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.76. REQ-UR-WP3-3

Configuration Manager Plug-in must be a component in the M2M Transformation Framework

Description:
Configuration Manager plug-in should personalize the behaviour of the framework to meet the needs of a specific standard / organization / project / individual
URI: https://github.com/ModelWriter/Requirements/issues/3
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

2.77. REQ-UR-WP3-2

Transformation Manager Plug-in must be a component in the M2M Transformation Framework

Description:
Transformation Manager Plug-in provides the infrastructure to register and launch transformations
URI: https://github.com/ModelWriter/Requirements/issues/2
Created: 20.11.2014
Created By: ferhaterata
Assignee: ferhaterata

References

N/A

https://github.com/ModelWriter/Project-Management/issues/11

Appendixes

N/A