ReqView Business Needs

✱ ID	☰ Description ▲	⚙ As a(n)	⚙ I Want	⚙ So that	⚙ Acceptance Criteria
NEEDS-45	ReqView — Free Requirements Definition and Management Tool 🖼 *NEEDS-45_1_reqview_icon.png (ReqView-User_Stories_Example_files/NEEDS-45_1_reqview_icon.png)*				
NEEDS-2	## 1 Introduction				
NEEDS-46	### 1.1 Purpose This is a *demo document* describing business needs for development of ReqView Desktop (https://www.reqview.com/) tool. The document is not complete.				
NEEDS-49	### 1.2 Intended Audience and Reading Suggestions The target audience for this document are new ReqView users evaluating ReqView and learning how to gather and manage requirements in ReqView.				
NEEDS-1	## 2 User Roles				

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NEEDS-5	## 2.1 Requirements Architect Requirements Architect defines requirements model and configure the requirements project for other users. He will: - Define project documents, documents structure and custom attributes - Configure project traceability, link types and traceability model for links between documents - Create document and project templates Requirements Architect is typically a *QA manager* or *project manager*.				
NEEDS-6	## 2.2 Editor Editor defines project requirements and creates requirements and tests documents. He will: - create new objects and organize them in a document structure - set value of custom attributes - discuss requirements - maintain requirements traceability links - create reports - import and export data Editor is typically a *requirements engineer*, *business analyst*, *project manager*, *QA engineer* or a *tester*.				

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NEEDS-7	## 2.3 Reviewer Reviewer reads project documents, performs review and provides feedback for improving the content of the document. He will: - Comment document objects such as requirements - Set value of dedicated attributes - Create reports Reviewer is typically an internal *QA expert* reviewing requirements and tests, *customer* or *supplier* commenting requirements and setting the requirement acceptance state.				
NEEDS-3	# 3 User Stories				
NEEDS-9	## 3.1 Data Model				
NEEDS-12	### 3.1.1 Project Structure	Architect	to be able to create documents in the project	I can separate definition of project requirements, tests, risks and other project artifacts	Tool supports: - creation of a new project, - adding a new document into a project, - deletion of a document from a project.

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NEEDS-19	3.1.2 Object Attributes	Architect	to be able to define custom object attributes	I can flexibly store additional information in project documents.	Tool supports: - creation of a new custom attribute, - deletion of a custom attribute, - definition of following custom attribute types - number - date - boolean - single and multivalue enumeration - string / rich formatted text
NEEDS-16	3.1.3 Traceability Configuration	Architect	to be able to define relationship types between document objects	I can setup consistent traceability between requirements and other document objects	Tool supports: - creation of at least one link type - definition of a start and end role for a link type - removal of a link type including all existing links

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NEEDS-14	3.1.4 Document Templates	Architect	to be able to save a document as a document template into a file	I can preserve consistent document structure in different projects	Tool supports: • saving a document as a document template file, • add a new document into a project from a saved document template file while preserving document attributes definition, values of object attributes and object attachments.
NEEDS-15	3.1.5 Project Templates	Architect	to be able to save a project as a project template into a file	I can quickly reuse project setup for new projects	Tool suppors: • saving a project as a project template, • creating a new project from a project template.
NEEDS-8	3.2 Requirements Definition				

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NEEDS-13	3.2.1 Document Structure	Editor	to be able to organize document objects in a tree hierarchy with numbered sections	I can easily navigate in the document structure	Tool supports: • creation of a new section, • creation of a new object in a section, • deletion of a section including all children, • deletion of an object, • moving a section or an object in a document, • automatic numbering of the sections, • visualization of a tree document hierarchy.
NEEDS-18	3.2.2 Rich Text Description	Editor	to be able to describe document objects by rich formatted text	I can highlight important information in the object text description and structure in multiple paragraphs or lists	Tool supports: • bold, italic and underline font style, • numbered lists, • bullet lists, in the object text description.

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NEEDS-62	3.2.3 Custom Attributes	Editor	to be able to set custom attribute value value for a single or more selected document objects	I can easily update more document objects at once	Tool supports: • editing multiple selected document objects, • custom editors for each custom attribute type.
NEEDS-17	3.2.4 Image Attachments	Editor	to be able to attach images created in other tools	I can enhance textual requirements with visual content such as mockups, diagrams, etc.	Tool supports: • attachment of image file to document objects, • displaying image attachments in the context of the related document object, • deletion of attachments.
NEEDS-20	3.2.5 Document Attachments	Editor	to be able to attach document files	I can store with document object additional documents	Tool supports: • attaching a document file, • displaying attached file name in the context of the related document object, • deletion of document attachments.

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NEEDS-21	3.2.6 Document Object Links	Editor	to be able to create links of given link type between selected document objects	I can easily create end to end traceability of project requirements	Tool supports: • creation of links between selected link start objects and link end objects, • setting link type of the created links, • deleting a selected link.
NEEDS-58	3.2.7 Project Files	Editor	to be able open and save project in files stores on a local file system or a network drive	I can share project with other users	Tool supports: • saving project in a file • opening project from a file
NEEDS-33	3.2.8 Autosave	Editor	to save all my changes automatically	I do not loose my changes if the tool terminates unexpectly	Tool: • instantly saves all the changes, • restores the same project content when it is restarted.

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NEEDS-34	3.2.9 Filter	Editor	to display filtered view of a document	I can view all document objects with description or custom attributes matching the given criteria by the full text search	Tool supports filtering document objects: • by full text search in the object heading, text or a custom attribute • with the given traceability link type • in the given section
NEEDS-36	3.2.10 Find	Editor	to browse all document objects containing given keywords in the description or custom attribute	I can search document objects by keyword	Tool supports searching document objects by a keyword.
NEEDS-35	3.2.11 Sort	Editor	to change the order of displayed document objects	I can view the document sorted by the natural document order or by value of a custom attribute	Tool supports sorting the document according to: • the natural document order, • value of a custom attribute.
NEEDS-22	3.3 Review				

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NEEDS-30	3.3.1 Traceability Browser	Reviewer	to be able to see all direct document object links and navigate a chosen link to the linked object	I can browse the traceability	Tool supports: • displaying linked objects in the context of the related document object • navigation to a chosen linked object
NEEDS-29	3.3.2 Print	Reviewer	to be able to review printed document	I can review document without the tool	Tool supports: • printing a document with the same layout as it is displayed, • saving the document as PDF with the same layout as it is displayed.
NEEDS-24	3.3.3 Discussion	Reviewer	to be able to comment a selected document object and to display the discussion for a document object	I can discuss requirements in the team	Tool supports: • commenting document objects with rich text comment description, • discussion per a document object.
NEEDS-31	3.4 Audit Trail				

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NEEDS-32	3.4.1 Unique IDs	Editor	to automatically generate for each new document object a unique ID	I can uniquely identify each document object in future	Tool supports: • automatic generation of document ID which can not be further changed
NEEDS-26	3.4.2 History of Changes	Reviewer	to be able to see all changes of each document object with information about the author, date and time of the change	I can track changes done by Editors	Tool supports: • displaying history of changes for a selected object.
NEEDS-23	3.4.3 Traceability Report	Reviewer	to be able to review traceability report displaying information about linked objects across multiple levels	I can analyze impact of changes before they are agreed or prove compliance	Tool supports: • generation of custom traceability report which visualizes end-to-end requirements traceability
NEEDS-10	3.5 Team Collaboration				

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NEEDS-25	3.5.1 Concurrent Edit	Editor	to be able to exclusively edit a document while other editors can edit other documents in the project	I can collaborate with other editors on editing a project without rewriting our changes	Tool allows collaboration of multiple concurrent editors changing different documents.
NEEDS-11	3.6 Integration				
NEEDS-27	3.6.1 Import	Editor	to be able to import document objects from a text processor or a spreadsheet	I can easily populate documents with existing information created in other applications	Tool supports: • import of CSV, • import of MS Word HTML, • import of ReqIF, • pasting of text or HTML from other applications into object text description.
NEEDS-28	3.6.2 Export	Editor	to be able to export documents into a text processor or a spreadsheet	I can elaborate information from the tool in other applications	Tool supports: • export of CSV, • export of HTML, • template customizing format of the exported file.
NEEDS-4	4 Constraints				

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NEEDS-39	4.1 Startup Time	Editor	to be able to quickly start the tool	I do not need to wait long time for editing a project	Tool starts in less than 10s even for large projects.
NEEDS-41	4.2 Edit Response Time	Editor	to be able to edit even large documents	I can effectively work without significant waiting for tool response	Response time for common edit operations (change attributes and structure) shall be less than 1s.
NEEDS-44	4.3 Number of Document Objects	Editor	to be able to create many document objects	I can define documents storing all project requirements even for complex system projects	Tool can store up to 5000 document objects per a document.
NEEDS-43	4.4 Number of Documents	Architect	to be able to define data model with many documents	I can store all important information in the project	Tool can store up to 20 internal documents per a project.
NEEDS-37	4.5 Attachment Size	Editor	to be able to attach large files	I can store even large external documents in the project	Tool can store persistently attachments up to 50MB per attachment.
NEEDS-40	4.6 Total Project Size	Editor	to be able to attach large files	I can store all important external documents in the project	Tool can store persistently project with total size up to 100MB.

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NEEDS-42	## 4.7 Security	Editor	to be able to work with the tool on the company intranet	I do not compromise company / industry IT security standards for storing project data	Tool stores all project data in an encrypted persistent application storage and does not send any project information to the internet without user consent.
NEEDS-51	## 4.8 Compatibility	Editor	to be able to install and use the tool	I can work in my preferred OS	Tool supports Windows, Linux and Mac OS.