

Highlights

DECREASE TIME TO MARKET

Find as many (or more) critical defects in an average of 1/3 of the time.

AUTOMATE ERROR-PRONE TASKS

Using natural language analysis, RAWeb is able to find a greater variety of defects that are overlooked by analysts and other analysis tools

FOCUS ON REAL PROBLEMS

Domain experts can now spend their time analyzing the results of RAWeb, which allows them to focus on critical defects.

IMPROVE QUALITY

Find more major defects, earlier.

RAWeb Data Sheet

Overview

Requirements Assistant is the engine of a new application called RAWeb. RAWeb analyzes requirements written in natural language.

Each requirement is analyzed as

- ◆ a sentence
- ◆ a part of a paragraph
- ◆ an element in the whole document (or file)

The goal of this analysis and of requirements definition in general is to make requirements that are:

- ◆ Complete
- ◆ Consistent
- ◆ Readable
- ◆ Testable
- ◆ Unambiguous
- ◆ Precise
- ◆ and many more

These aspects are evaluated by RAWeb, and an overview of issues/shortcomings/defects is provided for the requirements analyst. So, RAWeb assists the analyst to focus on issues that he considers important.

Years of experience have shown that RAWeb is easily applied to different domains of requirements.

When new error types are found during reviews then RAWeb can add this knowledge, as a new rule.

This update capability of the tool enables the user to apply the lessons learned.

Web Based Application

By making RAWeb as a web based application, it allows for quick installation and access from a variety of platforms. RAWeb has the ability to store requirement sets and profiles to allow teams to share their analysis. Also, all past results are stored in a database to let Analysts view past runs and see improvements in requirements quality.

Example

In a thorough evaluation the results of RAWeb were compared with the findings of a domain-expert. In an experiment a domain expert found four major issues in a set of requirements. A Junior requirements analyst with RAWeb found the same four major issues. In addition she found six other major issues. She accomplished this in less time than the domain expert needed.

Conclusion

With this type of result it is worthwhile in a requirements phase of product development to analyze the requirements with RAWeb before the requirements are entered into a traceability matrix.

Features	Benefits
Natural Language Analysis	<ul style="list-style-type: none"> ◆ Capturing 25 years of requirement analysis expertise in over 2000 analysis rules, spanning over 160 categories requirement defects ◆ Able to analyze requirements in context, identifying defects that span the entire requirement set, unlike any other analysis tool ◆ Able to identify ambiguous requirements by doing single sentence analysis ◆ Able to use single sentence analysis to identify requirements with testability issues
Completeness Analysis	<ul style="list-style-type: none"> ◆ Able to identify incomplete or missing requirements
Consistency Analysis	<ul style="list-style-type: none"> ◆ Able to quickly identify requirements across the entire set that violate or overlap other requirements in the set
Domain Profiles	<ul style="list-style-type: none"> ◆ Allows analysis across a variety of domains, i.e. Defense, Medical, Aerospace, Finance, Automotive, etc. ◆ Because of natural language analysis, RAWeb recommends words that should be in the profile, allowing for a stronger future domain analysis
Requirement Sets	<ul style="list-style-type: none"> ◆ Allows multiple requirement sets to be created and repeated analysis to be performed while adjusting in inputs ◆ Able to run multiple input profiles against any requirement set, which expands the strength of the analysis based on passed executions
Analysis Reports	<ul style="list-style-type: none"> ◆ All Analysis reports are saved and reviewable in the future
Integrations	<ul style="list-style-type: none"> ◆ IBM Rational DOORS ◆ IBM Rational RequisitePro - In Progress
Helpdesk	<ul style="list-style-type: none"> ◆ Two offices to assist you ◆ The Emphasys Group, USA ◆ Sunny Hills Consultancy, The Netherlands

Software Requirements	
Operating Systems	<ul style="list-style-type: none"> ◆ Microsoft Windows XP ◆ Microsoft Windows Vista ◆ Microsoft Windows Server 2003
Browser Requirements	<ul style="list-style-type: none"> ◆ Microsoft Internet Explorer 6.x, 7.x ◆ Mozilla Firefox 2.x, 3.x ◆ Google Chrome

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