

Automatic Visualization of Traceability Information

by

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Abstract

Classical Traceability Management Systems (TMS) help track links between software parts like requirements, designs, Code, and test cases. They help keep projects organized and meet quality goals. But they have issues. Pulling out data takes too long. Searching is hard. The results are greasy and not easy to understand. These problems slow teams down and make fast decisions, especially for agile teams.

This study proposes an improved Traceability Management System (TMS) for software engineering processes. The system retrieves data in real-time and presents it through dynamically updating charts. It is designed to operate with greater speed and simplicity, thereby enhancing team coordination and progress monitoring.

Utilizing regular expressions, the system efficiently extracts critical information from intricate software datasets. This extracted data is subsequently transformed into comprehensible visual representations.

Keywords: Traceability; Automatic; Regular Expression; Visualization; TMS.

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Chapter 1 Introduction

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Chapter 2 Background

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References