



Accelerating Clinical Research

Enhancing Test Case Generation with AI-Powered Automation

Minimizing Tester Efforts with the Integration of Generative AI & VS Code Extension



Summary

A global leader in cloud-based technology solutions for clinical research faced challenges in test case creation and coverage. With Sonata's solution, they significantly improved their testing process by integrating user stories from Jira with Gen AI, resulting in a 40% faster test case generation.

Client Overview

A global leader in cloud-based technology solutions for clinical research in the life sciences industry. With an annual revenue of over a few billion dollars, the client provides software platforms for managing clinical trials and research data.

Pressure Points

Long duration for the creation of test cases by Business Analysts, Product Owners & Testers

Suboptimal test coverage due to occasional oversight of relevant test cases

Absence of a streamlined solution for generating unit and functional test cases and code comments

Need support across multiple programming languages and integration with third-party tools like Jira

Solutions

Extracting user stories from tools like Jira for seamless integration

Integration with VS code extension to pass user story as a context to Gen AI

Collecting responses from Gen AI and formatting the output if required

Offering testers flexibility to request test case regeneration if unsatisfied with Gen AI's output response

Results

40% Faster Test Case Generation

50% Reduction in Tester Efforts

Improved Test Case Accuracy & Test Coverage

End-to-end Process Automation from User-Story to Generation of Test Scripts