Boutique IT Company

The client is a boutique information technology company that provides specialist IT services to companies in the financial services industry, including insurance and banking as well as large enterprise IT companies. The client has worked with many large enterprises to optimize the performance of their deployments, troubleshoot scalability issues and overall lead DevOps transformation and modernization efforts.

Inflectra has been working with the client for the past 7 years, where they have been using Inflectra's SpiraPlan and Rapise products to improve the software delivery and quality assurance. The client started adoption of Inflectra's Generative AI solutions a year ago when the first versions were made available to them.

Accelerating the Software Lifecycle with Generative AI:

≫ Solution

The client has been using the Generative AI features of SpiraPlan to generate test cases, test steps, BDD scenarios and software development tasks from requirements. The requirements were entered in SpiraPlan by business analysts and product owners. The productivity benefits include faster test creation, reduced manual effort, and improved test coverage.

Inflectra's SpiraPlan platform was deployed to solve the problem, using AWS EC2 Windows instances in multiple regions and Availability Zones, and leveraging AWS EBS and AWS Lifecycle Manager to provide a robust and highly performant solution. This was connected to the customer's AWS Bedrock account using our dedicated SpiraApp to give access to the Clause family of LLMs created by Anthropic.

≫ Results and Benefits

The customer has seen the following productivity benefits:

- Reducing initial test case creation time by 40-50%
- Accelerating risk identification in early project phases
- Streamlining the creation of BDD scenarios
- More consistent test coverage through AI-assisted generation
- Faster creation of initial task breakdowns from requirements

Outcomes

Key Metrics

- Estimated 30-40% reduction in time spent on initial test artifact creation
- Risk identification completeness: ~25% improvement
- Task breakdown consistency: ~30% improvement)
- Test coverage metrics: ~20% improvement in initial coverage
- Time saved in BDD scenario creation:~40% reduction

Gen AI Use Cases

Our customer has been using SpiraPlan's AI functionality to support these use cases:

- Generating test cases from requirements
- Suggesting development tasks based on requirements
- Creating BDD scenarios from requirements
- Identifying potential business and technical risks
- Generating test steps for existing test cases
- Suggesting risk mitigations

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