REVOLUTIONIZING SOFTWARE QUALITY: HOW NNPC TRANSFORMED QA WITH SPIRAPLAN

CASE STUDY

THE COMPANY

- **Company**: Nigerian National Petroleum Corporation (NNPC) Limited
- **Industry**: Utilities/Energy, Oil & Gas
- **Geographies covered**: Nigeria
- **Team & Projects**: Numerous large-scale projects across its subsidiaries

THE PROJECT

To enhance efficiency and software quality assurance, NNPC sought a solution to modernize its testing processes and eliminate operational bottlenecks.

THE CHALLENGE

NNPC faced:

- **Inefficiencies & Fragmentation:** Manual, inconsistent SQA workflows delayed projects.
- **Missing Documentation**: Incomplete test cases and requirements slowed validation.
- **Lack of Automation**: Extended testing cycles delayed project delivery.
- **Limited Visibility:** Manual tracking hindered informed decision-making.

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THE SOLUTION

Inflectra's partner - Tezza implemented an end-to-end SQA Automation Solution:

- Standardized project tracking, test management, and requirements documentation with full traceability.
- Rebuilt missing documentation, introduced best practices.
- A six-month support phase to ensure smooth adoption.

FUTURE PLANS

NNPC plans to expand SpiraPlan's use and integrate additional Inflectra solutions with continued Tezza support.

RESULTS & BENEFITS

The implementation, executed by Inflectra's partner, Tezza delivered significant improvements:

- **60% Faster Testing Cycles:** Accelerated project timelines.
- **Enhanced Software Quality:** Reduced defects and increased reliability.
- **Improved Visibility:** Real-time project insights enabled better decision-making.
- **Cost Reduction:** Lowered manual testing efforts and operational costs.
- **Empowered Teams:** NNPC teams gained full control of SQA processes with ongoing partner support.

IMPLEMENTATION PARTNER: TEZZA BUSINESS SOLUTIONS

Tezza Business Solutions Ltd is a leading provider of software development, quality assurance, and testing services. Founded in 2000 in the U.S., Tezza now operates in Kenya, Nigeria, Tanzania, and Uganda, serving industries such as banking, insurance, healthcare, and telecommunications. Specializing in test automation and early-stage testing, Tezza helps clients improve software quality, reduce costs, and accelerate time to market with a customer-first approach.

The Inflectra AWS Partnership

Inflectra's customers work in mission-critical and high-assurance industries, and consequently expect the highest levels of service. For this reason, Inflectra hosts all of its applications on the proven Amazon Web Services (AWS) global infrastructure. Inflectra offers its customers a trusted lifecycle management platform for delivering critical products and services on-time and with the highest quality. The partnership with AWS lets us focus on delivering application services, knowing that the infrastructure has world-class security, reliability and safety built-in.

In addition, the flexibility and agility of the AWS platform has let Inflectra expand and scale its business to meet and exceed customer requirements as their needs have grown. We have been able to add regions and services as our customers globally expanded.

Leica: How Inflectra and AWS Delivered Results

≫ Solution

The deployment of Inflectra's SpiraPlan and SpiraTeam revolutionized Leica Biosystems' approach to managing medical device development projects, offering a unified platform for diverse project needs. Inflectra's integrated requirements management played a crucial role in keeping all stakeholders aligned

One of the key considerations was how to support a global team with highly performant, low-latency connectivity. Inflectra in partnership with AWS was able to deploy its SpiraPlan and SpiraTeam solutions into multiple AWS regions (Ireland, Frankfurt, Singapore, and Seoul) giving the customer the flexibility, performance and reliability they needed.

Inflectra made use of AWS EC2, EBS and AWS Lifecycle Manager to provide a robust and highly performant solution across these regions.

≫ Results and ROI

Inflectra's platform enhanced collaboration across Leica Biosystems' teams in Germany, India, and China. It allowed different departments, from product design to marketing and IT, to effectively share requirements, feedback, and reviews. Finally, it centralized management of requirements, incidents, and tests, improving overall productivity.

Features

Reliability & Privacy

Our customers care about data privacy and service reliability above all else. Inflectra has designed its SaaS platform using the flexibility of AWS to have six discrete privacy regions that ensure data sovereignty and privacy requirements are always met. Currently we are able to host data for customers in the USA, Canada, Europe, India, Australia, and Singapore. Each region offers multiple availability zones and both a primary and disaster recovery region

AI-Enabled Traceability

Our customers need to be able have complete traceability from their business requirements to all of the software development and testing assets managed within the Inflectra platform. We leverage the power of AWS CodeBuild and DeviceFarm to provide an integrated DevOps solution dashboard in a 'single pane of glass'. Embracing the power of GenerativeAI, our platform includes an innovating AI assistant using AWS Bedrock that lets customers generate tests, tasks, code and risks from their business requirements and user stories.

Visit AWS Marketplace to purchase or start a Free Trial today. ≫

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