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Sensoneo – Custom Test Automation

Sensoneo needed robust, custom test automation to enable rapid, high-quality software deployment. **SANAE** delivered a tailored, scalable solution, seamlessly integrated into the CI/CD pipeline, ensuring system reliability. The implementation was successfully completed, and the system is fully operational.

Project length: 4 months **Keywords:** E2E Test Automation, Robot Framework, Playwright, CI/CD, Azure DevOps, Docker

Sensoneo's Challenge

Implementing **Sensoneo - Custom Test Automation** was a massive undertaking for Sensoneo. This large-scale initiative demanded unparalleled software quality and reliability. Managing billions of transactions across thousands of retail locations meant any defect could cause widespread disruption. Sensoneo required an effective test automation framework for crucial regression testing.

SANAE's Solution

Collaborative Approach & Iterative Development
We formed a specialized team working closely with Sensoneo. Client provided initial test cases, which our team refined and optimized. This collaborative process ensured automated tests accurately reflected real-world usage and adapted as the system evolved.

Key Technologies & Features
Our **end-to-end testing** solution leverages **Robot Framework** with **Playwright** for web portal validation.

Feature	Description
Reusable Code	Custom libraries encapsulate complex operations into reusable keywords.
Containerized Execution	Tests run consistently using Docker (with headless browser capabilities).
CI/CD Integration	Fully integrated with Azure DevOps for automated tests and reports.
Secure Credentials	Authentication managed securely via environment variables.
Multi-Role Support	Supports various roles based on real-world scenarios.
Comprehensive Logging	Trace-level logging provides detailed insights for all environments.

A significant challenge involved automating **image-based signature verification** within dynamic user interfaces. We developed an approach combining **advanced image recognition** with adaptive automation strategies. This ensured stable and reliable automation for this critical component, even with ongoing UI changes.

Integrated into **Azure DevOps CI/CD**, the automated test suite ensures continuous quality. Tests run automatically with every code commit, providing immediate feedback and real-time reports directly to stakeholders. This boosts release confidence by accelerating defect detection and offering clear system health visibility. The result was a successful implementation that confirmed the reliability and readiness of the solution for operations.