

QESTIT and University Zittau/Görlitz researchers enhance the AI workflow framework to improve automated quality assurance processes.

Görlitz, September 01 2025 – QESTIT and the University Zittau/Görlitz have initiated a joint research and development project to expand the current AI workflow framework with modules for end-to-end automated quality assurance. By mid-November 2025, the team will deliver a proof of concept integrating the computer-use approach directly into testing workflows. This will automate the execution of test cases, detect defects at an early stage, identify root causes, and provide actionable recommendations for resolution. Leveraging QESTIT's industry expertise and the University Zittau/Görlitz's research methodology will result in robust, evidence-based data to validate efficiency, reliability, and cost advantages, while shaping the next generation of QA standards.

The project centres on analysing existing closed- and open-source “computer use” solutions. Based on these findings, the partners are building an enhanced framework with a JSON interface capable of autonomously handling test cases, input data, and contextual information. In parallel, they are developing an evaluation system that monitors runtime, reliability, and costs in real time, validating results through multimodal models such as screenshot analysis. This evidence-based data will enable QA departments to make well-founded investment and resource allocation decisions.

„This project is about elevating quality assurance. AI-powered testing allows us to detect issues earlier in the development cycle and resolve them faster.“, says Marc Köhler, Head of DACH at QESTIT. Prof. Jörg Lässig from the University Zittau/Görlitz adds: „ The initiative brings state-of-the-art scientific methodology directly into quality assurance. Through applied research, we aim to demonstrate how AI models can make testing processes sustainably more efficient. “

The project establishes a new benchmark for automated test case execution and evaluation in QA. Leveraging multimodal AI, it automates the execution of test cases and systematically analyses results, enabling faster, more accurate defect detection and delivering more reliable, meaningful test outcomes.

By mid-November 2025, QESTIT and researchers of the University Zittau/Görlitz will deliver a proof of concept identifying where and under what conditions AI-powered test automation can effectively complement – or fully replace – conventional testing methods. Insights gained will drive the ongoing enhancement and integration of automated testing frameworks into QESTIT QA workflows. The partnership will also continue beyond this project, with a focus on advancing AI-powered test automation in ways that are both innovative and industry-relevant.

About QESTIT

QESTIT is Europe's leading expert in Quality Assurance and Software Testing. With 21 locations across 6 countries and a team of over 800 professionals, QESTIT has been delivering top-tier services to national and international clients for more than 25 years. Drawing on deep industry expertise and a commitment to continuous innovation, QESTIT tailors its solutions to meet each client's unique needs. Driven by excellence, QESTIT sets industry benchmarks and is focused on expanding its leadership and sustaining long-term growth.

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