

Keysight Eggplant's OCR Capabilities Revolutionize GUI Testing for Invaris

Invaris overcomes testing challenges with Eggplant Test, enabling seamless testing for optimal customer experience

Introduction

Invaris, based in Eisenstadt, Austria helps its customers to improve document handling, streamlining workflows and fostering team collaboration, to boost organizational efficiency.

Facing significant testing challenges, particularly due to traditional test frameworks being incompatible with their software, Invaris sought an innovative solution to ensure their products met rigorous quality standards. With the help of Eggplant Test from Keysight, they achieved their testing goals efficiently and effectively.

Challenges

We spoke to Florian Beinker and Marcell Balla from Invaris' software quality team to understand the challenges they faced and how Eggplant provided the solution.

Compatibility issues

Invaris' software was not compatible with common test frameworks like Cypress, which made the testing process cumbersome and ineffective. They needed a solution that could handle their unique requirements, especially since their software relied heavily on visual elements that typical frameworks could not adequately test.

Need for visual recognition

The nature of Invaris' products required a testing solution with strong visual recognition capabilities. They needed to ensure that the user interface and visual elements were functioning correctly and consistently, which was a critical aspect of their software's performance and user experience.

Accuracy and precision

Invaris' products feature intricate visual components and dynamic interfaces. Ensuring these elements function correctly under various conditions was paramount. The inability to use traditional testing frameworks meant that they had to look for a solution that could provide:

- **High Accuracy:** The ability to recognize and validate visual elements with precision.
- **Comprehensive Testing:** The capacity to handle extensive and complex test scenarios without compromising on detail or accuracy.



The OCR experience

They explored numerous testing tools but found them lacking in the necessary visual recognition capabilities. The breakthrough came when they discovered that Eggplant's Optical Character Recognition (OCR) engine was able to consistently recognize the on-screen images that were part of the tests.

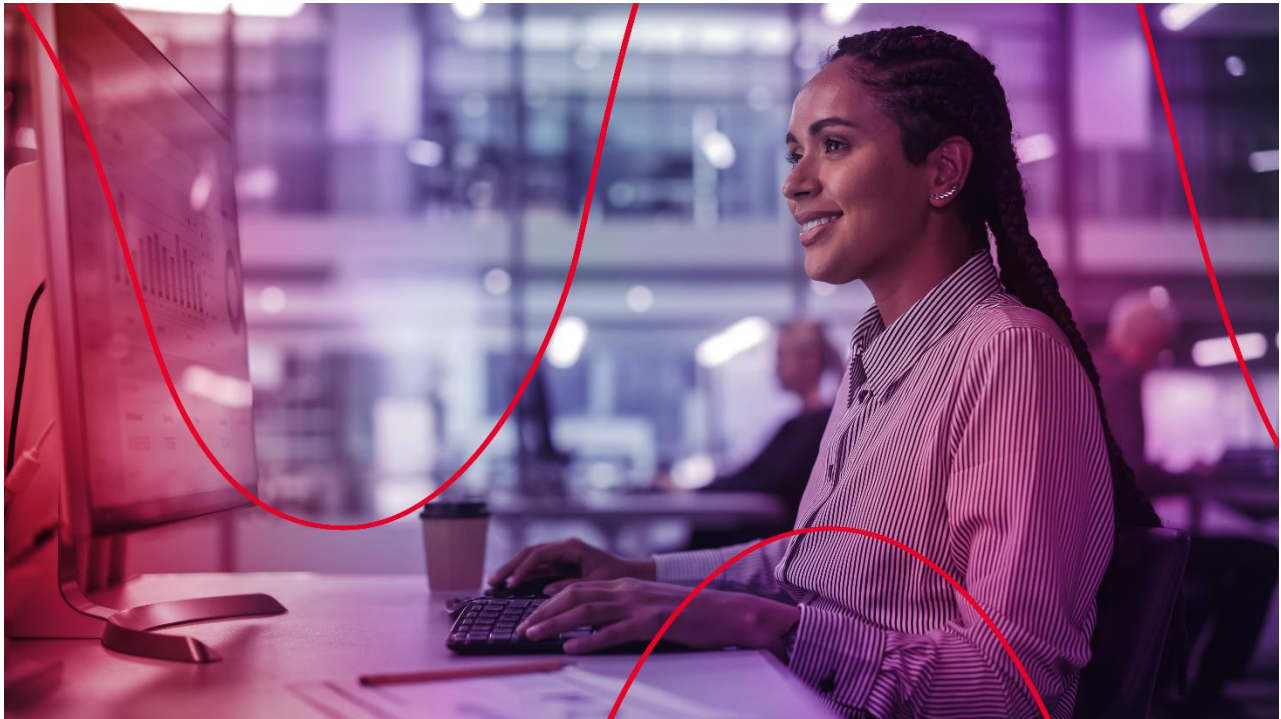
Key features

- **Advanced Image Recognition:** The solution could identify and validate visual elements at the pixel level, ensuring high accuracy.
- **Seamless Integration:** Eggplant works with Invaris' existing setup without requiring extensive changes or codebase access.
- **Automated Testing:** Enabled comprehensive and automated testing of dynamic interfaces, which was previously unachievable.

“Using Eggplant is like having a team of testers working for us, 24/7/365”

Implementation

To ensure they would quickly adopt and become efficient in using the software, Invaris engaged with Eggplant’s Guided Adoption Program, which provided them with a streamlined and efficient implementation process. Throughout the program, they received expert guidance and structured support, allowing them to maximize Eggplant’s capabilities, enabling them to fully exploit the software’s features, resulting in improved operational efficiency and a strong return on investment. This proved to be instrumental in helping them achieve a smoother transition and faster realization of their strategic goals to significantly automate their testing processes.



Future plans

Florian mentioned that Invaris plans to expand the use of OCR technology and explore the benefits of Eggplant's Model Based Testing across more testing scenarios. They aim to integrate this technology further into their development pipeline, ensuring consistent quality and performance across all their offerings.

Invaris' success highlights the transformative impact of Eggplant's OCR technology in overcoming significant testing challenges and achieving high-quality software solutions.

Key outcomes

- **Enhanced Testing Capabilities:** Invaris successfully automated the testing of complex visual elements, which had not been possible with traditional frameworks.
- **Increased Efficiency:** Automation of repetitive testing tasks saved valuable time and resources. To date, the team has automated more than 160 of their previously manual tests which gives consistent test results and means they can now dedicate the time saved to creating additional automated test cases.
- **Improved Accuracy:** High precision in OCR ensured that all visual components are thoroughly tested and validated.

Conclusion

Eggplant Test has proven to be a game-changer for Invaris, enabling them to automate complex testing scenarios with precision and efficiency. This innovative approach ensures that their products meet the highest standards of quality and reliability.

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.



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