OPTI

QA Practices.
An affordable Automated Testing Solution provided by OPTI

Case Study

Overview

Industry: Technology
Location: Bucharest, Romania
Output: Automated Tests
Date: 2024
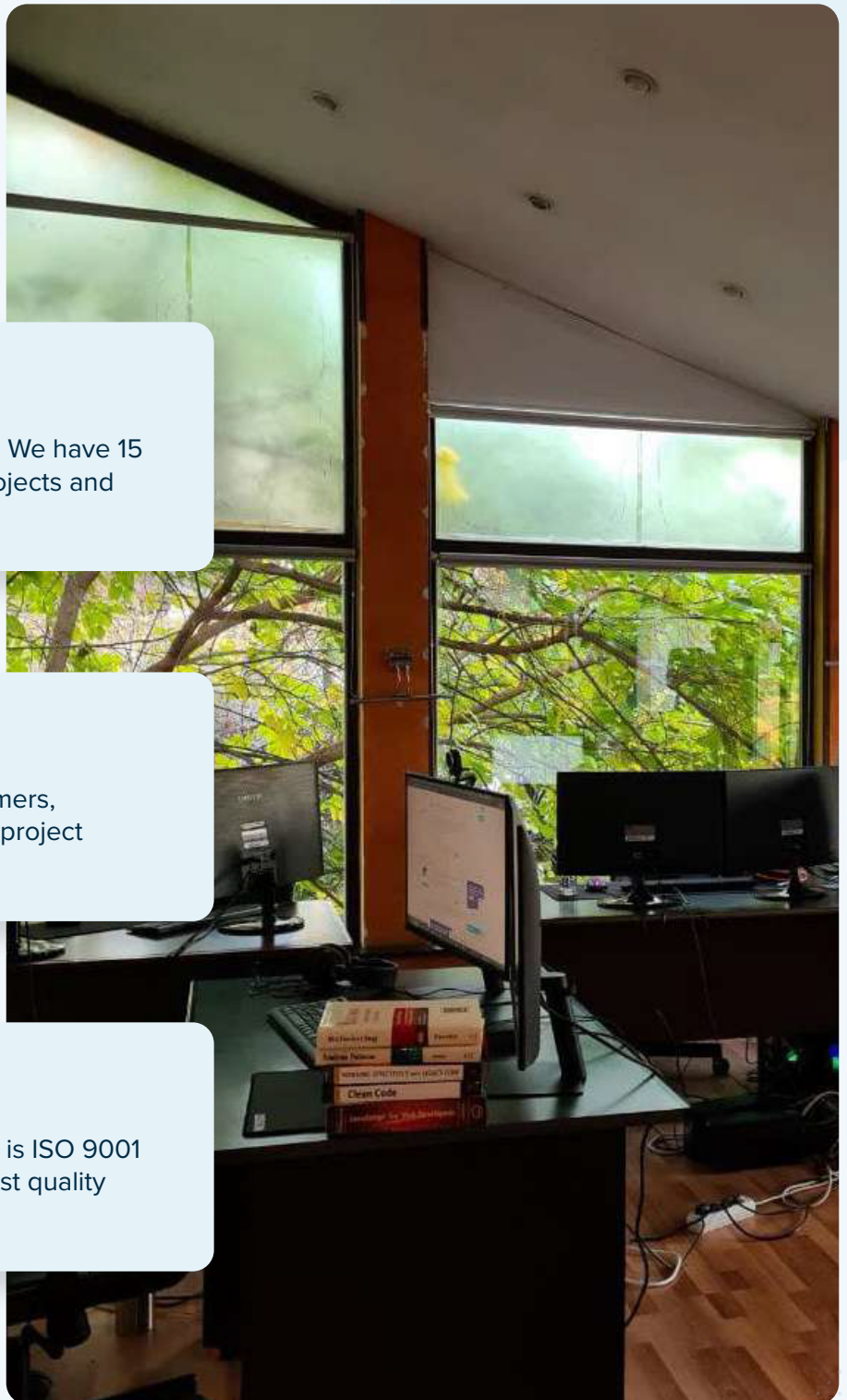
About OPTI

✓ **Over 15 years of excellence**

OPTI Systems was founded in 2005. We have 15 years of experience, hundreds of projects and satisfied clients.

✓ **Team of specialists**

Our team include analysts, programmers, database and server administrators, project managers and QA engineers.

✓ **Based in Bucharest, Romania**

Romania is a renowned IT hub. OPTI is ISO 9001 certified and competes for the highest quality standards.

We do software focused on

Digital Transformation

Medical

Educational

Gaming

Challenge

Clients often face the challenge of **ensuring the continuous functionality** of their complex web applications, with key features operating as intended. Manual testing, while effective, can be time-consuming and prone to human error. Additionally, conveying test results to stakeholders and non-technical team members can be challenging, leading to misunderstandings and **delays in decision-making**. There is a need for a solution that not only ensures **product reliability** but also provides **clear and understandable test results to all stakeholders**.
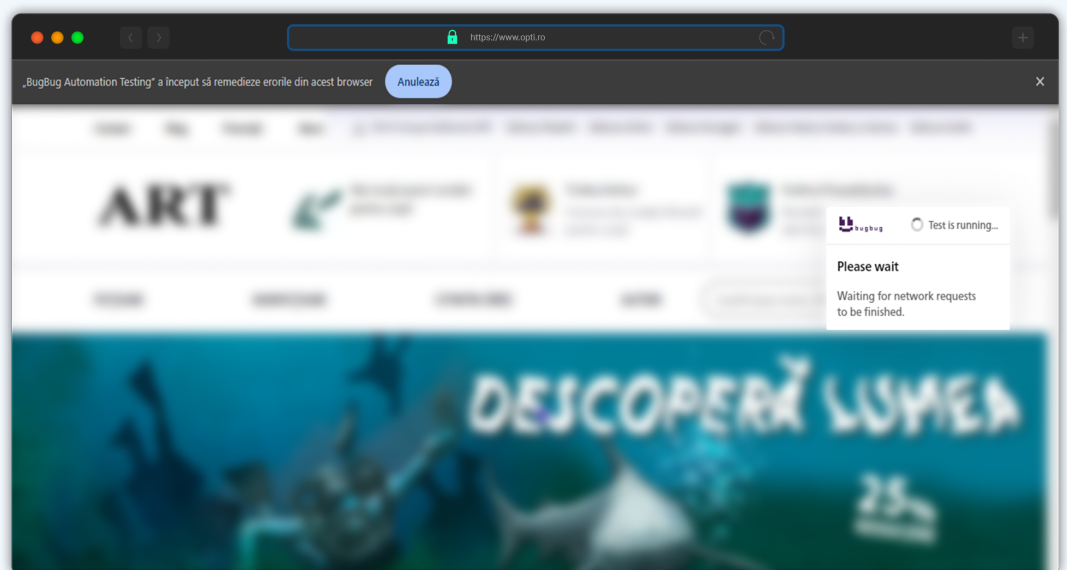
Solution

In response to this challenge, here at OPTI we utilize BugBug's automated testing platform. By leveraging BugBug's toolset, we ensured that the automated testing solutions were not only affordable but also easily understandable for stakeholders and non-technical personnel. This approach facilitates clear communication and collaboration within the organization, ensuring that all parties were equipped to effectively navigate the testing process.
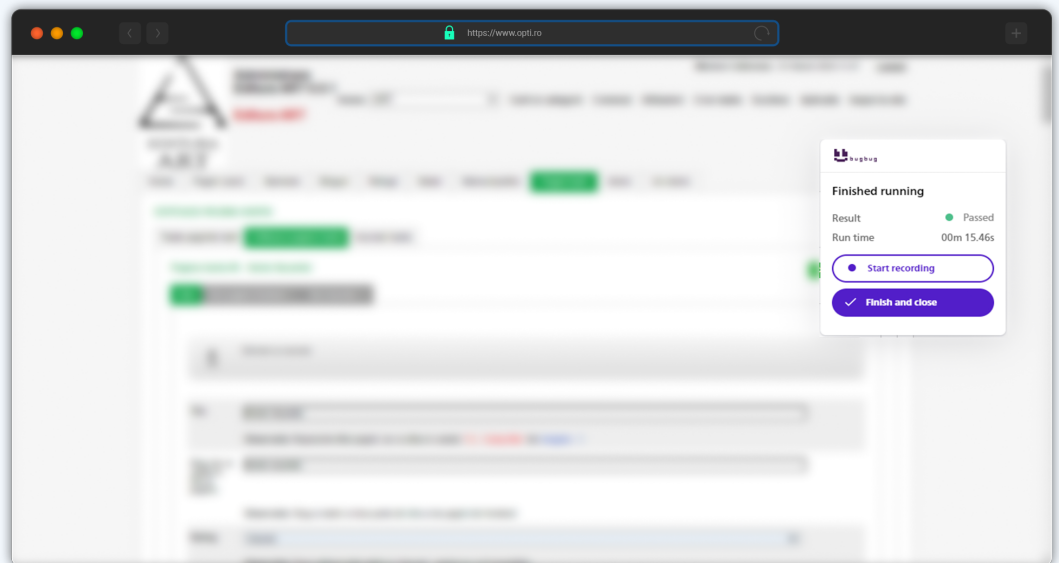
1. **Identification of the most used functionalities and processes**

   - We work closely with clients to identify key functionalities and critical use cases that require continuous validation, taking into account the complex backend configurations.

   - Understanding the interplay between frontend features and backend configurations ensures that automated tests focus on critical areas for functionality validation.

2. Development of automated testing suites

- We develop in BugBug comprehensive automated testing suites tailored to the identified key functionalities

- The suites can include regression tests and API tests, ensuring thorough coverage across both frontend and backend
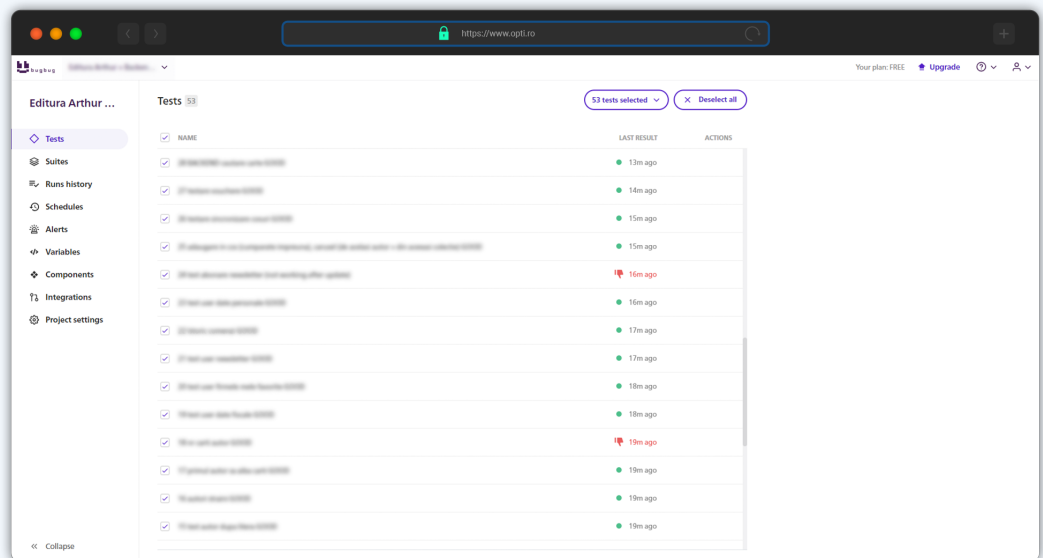

2. Test execution and monitoring

- We run the tests either manually or schedule them during off-hours, depending on the client's needs

- Clients can also independently execute the tests if desired, facilitated by the intuitive nature of BugBug's platform

(*) While the implementation of automated tests through BugBug's platform has proven to be effective and affordable, it's important to recognize that they **cannot entirely replace manual testing**. The automated tests offer numerous benefits, including **efficiency, cost-effectiveness, and scalability**, while providing stakeholders with clear and actionable insights into the reliability of the software application. However, manual testing still holds value in certain scenarios, particularly in complex or nuanced situations where human judgment and intuition are required. Therefore, a balanced approach that incorporates **both automated and manual testing** methodologies is essential to **ensure comprehensive software quality assurance**. By leveraging the strengths of both approaches, OPTI Systems can maximize the reliability and performance of their software solutions while optimizing resources and meeting client needs effectively.

OPTI

✓ Automated tests through BugBug's platform offer effectiveness, affordability, efficiency, cost-effectiveness, and scalability, providing stakeholders with clear insights into software reliability.

✓ Manual testing remains valuable in complex scenarios requiring human judgment and intuition, necessitating a balanced approach that integrates both automated and manual testing methodologies.

✓ Leveraging both automated and manual testing methods enables OPTI Systems to optimize resources, maximize software reliability and performance, and effectively meet client needs.

Results

Cost-Efficiency

This approach offers faster implementation compared to other industry-standard tools, allowing OPTI to achieve cost savings and deliver value-driven solutions to its clients efficiently.

Improved Time-to-Market

By automating testing processes, OPTI Systems can accelerate the release of new features and updates, maintaining competitiveness in the market while ensuring product reliability.

Clear and Understandable Reporting

Stakeholders have access to clear and concise test reports, providing insights into the impact of backend changes on frontend functionality.

Continuous Product Relaibility

Automated tests ensure that key functionalities remain reliable, even in complex software environments with editable backend configurations.