Test Automation vs Robotic Process Automation

eggplant
Test Automation Software

Let's Help

Almost half the activities people are paid for, about $16 trillion in wages across the global economy have the potential to be automated.

By adapting currently demonstrated technology, McKinsey Consulting believes that over 2,000 work activities across 800 occupations, will need to adapt to the new wave of Automation.

About 60 percent of all occupations have at least 30 percent of constituent activities that could be automated.

Find out how.

Test smarter and faster with AI-powered automation that views technology from the users' perspective, improving how you test, develop and deliver in the digital age.

What is Test Automation

Test automation tools "enable organizations to design, develop, maintain, manage, execute, and analyze automated functional tests. They provide breadth and depth of products and features across the software development life cycle (SDLC). This includes test design and development; test case maintenance and reuse; test management, test data management, automated testing and integration, with a strong focus on support for continuous testing."

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While both can automate 3rd party systems, the key difference between the two is that test automation systems have a much richer set of validation capabilities allowing you to be sure that the automated action worked correctly.

What is Robotic Process Automation

RPA tools "perform 'if, then, else' statements on structured data, typically using a combination of user interface (UI) interactions, or by connecting to APIs to drive client servers, mainframes, or HTML code. An RPA tool operates by mapping a process in the RPA tool language for the software 'robot' to follow, with runtime allocated to execute the script by a control dashboard."

RPA 'bots' can be attended or unattended.

- Validation
- Real User Experience
- Non-Invasive
- How is Eggplant Different

Eggplant technology provides our customers with all the capabilities of standard RPA products, plus advanced features such as non-intrusive (for systems you don't own or control) connection to any system device or platform allowing unbounded RPA processes across all systems. It also includes additional rich validation capabilities so you can ensure your automated actions and processes are completed accurately.

Finally, the same technology includes industry leading test automation technology to test and, focus testing, on the real user experience though intelligently understanding the system being automated and assess its functionality, performance, usability and accessibility. All this driven by advanced AI technology.

Eggplant RPA Capabilities

A graphical comparison of the capabilities provided by standard RPA systems, then those additional capabilities provided by Eggplant RPA, and finally, the complete set of capabilities provided by the combined Eggplant platform.

Standard RPA Capabilities

- Tooling to define fixed flows
- Execution of fixed process flows for "process execution"
- Connect to Standard systems (Web, Windows, Mobiles) intrusively
- Perform data entry, queries, calculations, transactions, orders, etc.
- Import and capture tooling to utilize existing assets
- Tooling to define fixed, semi-defined or fully automatic flows
- Execution of fixed, semi-defined or fully automatic flows for "test execution"
- Connect to any system, device or platform (modern or legacy) non-intrusively
- Perform data entry, queries, calculations, transactions, orders, etc.
- Validation (test) results via APU, Visual Analysis, DB, etc.
- Advanced Functional Testing
- Performance Regression Testing
- Performance Load Testing
- Usability testing and Accessibility testing
- Operational Monitoring
- Testing based on business objectives and Customer Insight

Eggplant RPA and Test Automation capabilities

Learn more at: www.keysight.com/find/eggplant

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