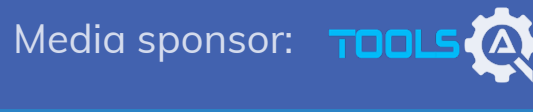


Challenges in Test Automation

SURVEY KEY RESULTS



The survey conducted by Katalon and KMS Technology with ToolsQA as the media sponsor in April-2018. The objective is to better understand and offer concrete evidence on challenges being faced by worldwide test professionals and their organizations with test automation.

USERS

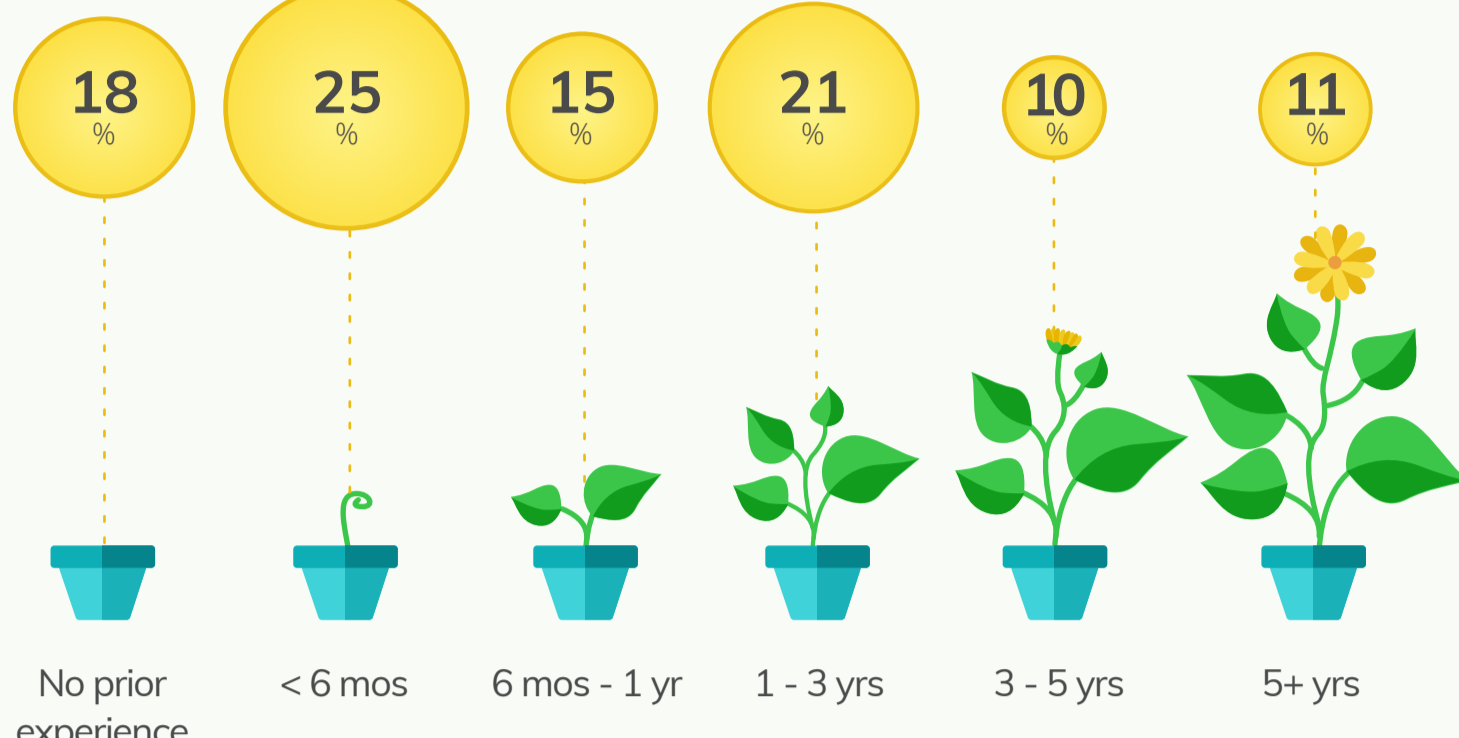
Respondent profile

- Manual tester (41%)
- Automation tester and expert (42%)
- Manager (9%)



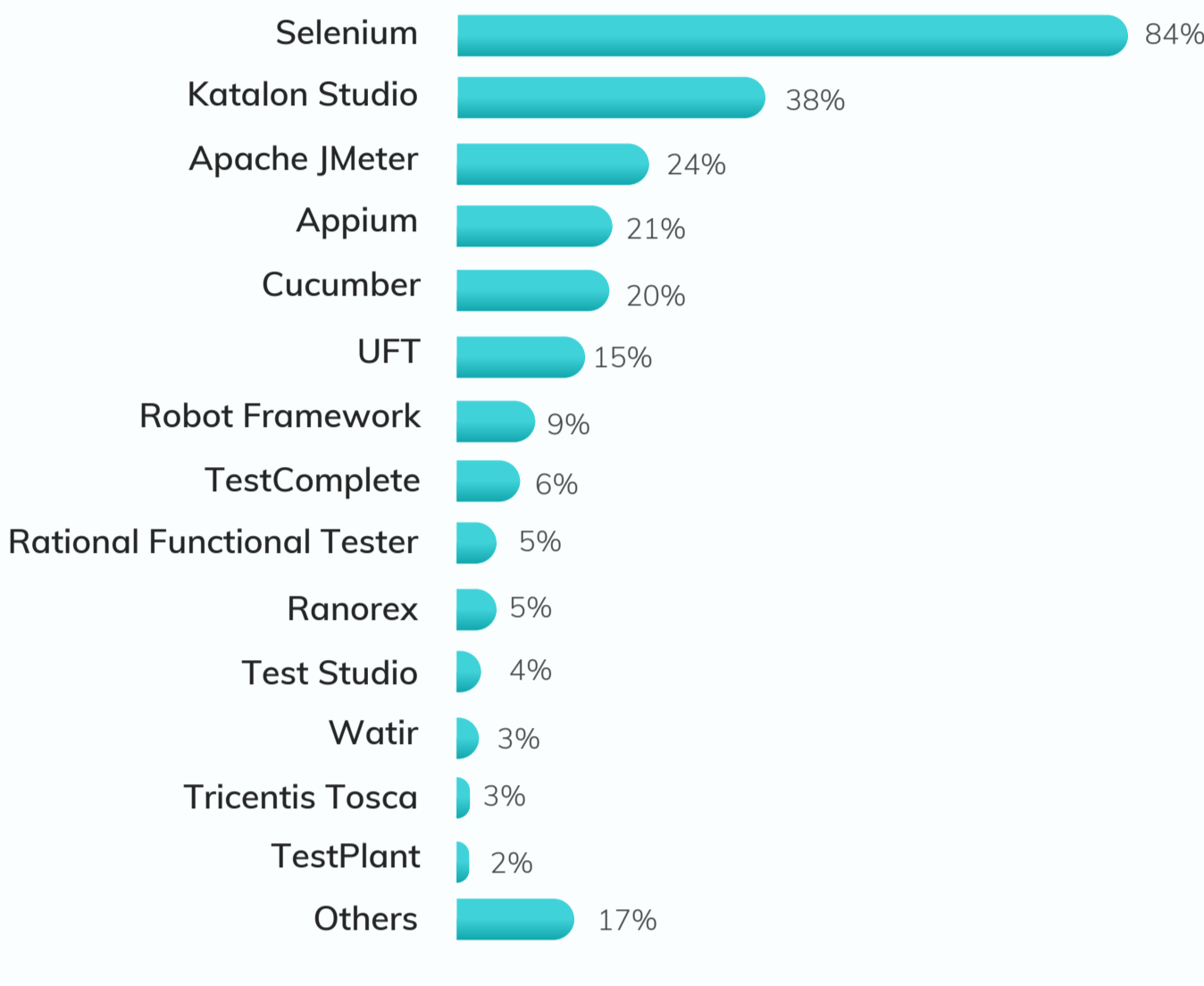
Test automation experience

- 1+ years: 42%
- Less than 1 year: 40%
- No prior experience: 18%



TOOLS

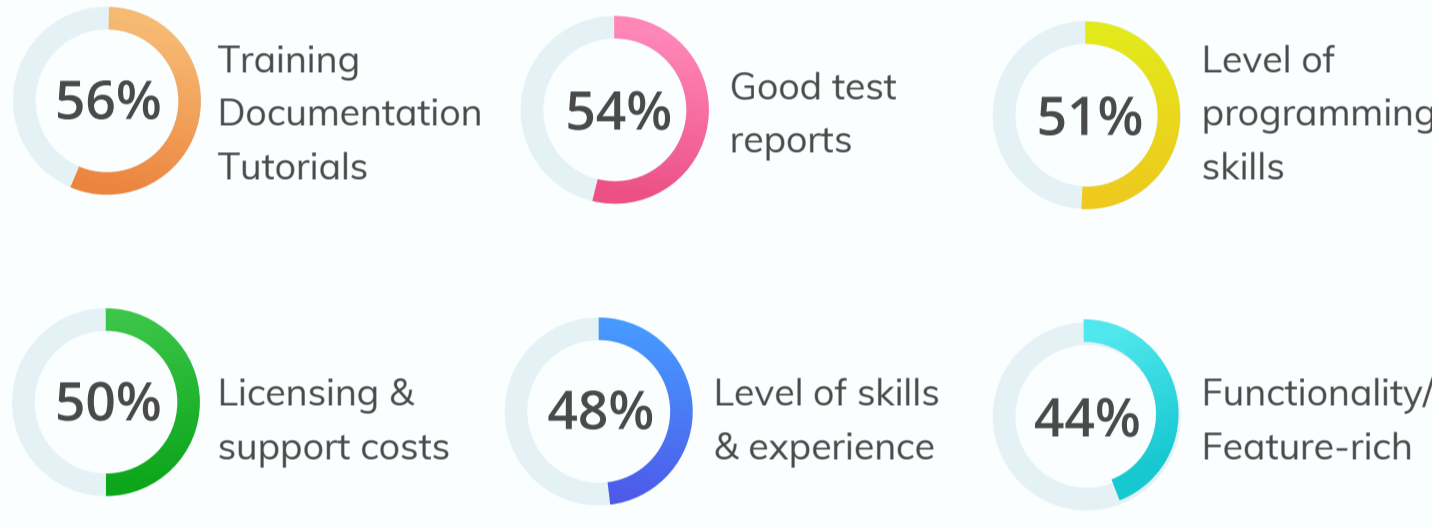
- Over 100 automation tools reported
- 84% have used Selenium
- Other popular tools:
 - SoapUI
 - TestNG
 - Protractor
 - Postman



i Katalon users was one of the sources for the survey, which may explain the high Katalon Studio adoption percentage.

Tool selection criteria

- Managers prioritized Licensing and support costs over Functionality/Feature-rich
- Non-managers preferred Good test reports over all else
- Other criteria:
 - Test execution optimization
 - User community
 - CI, DevOps support

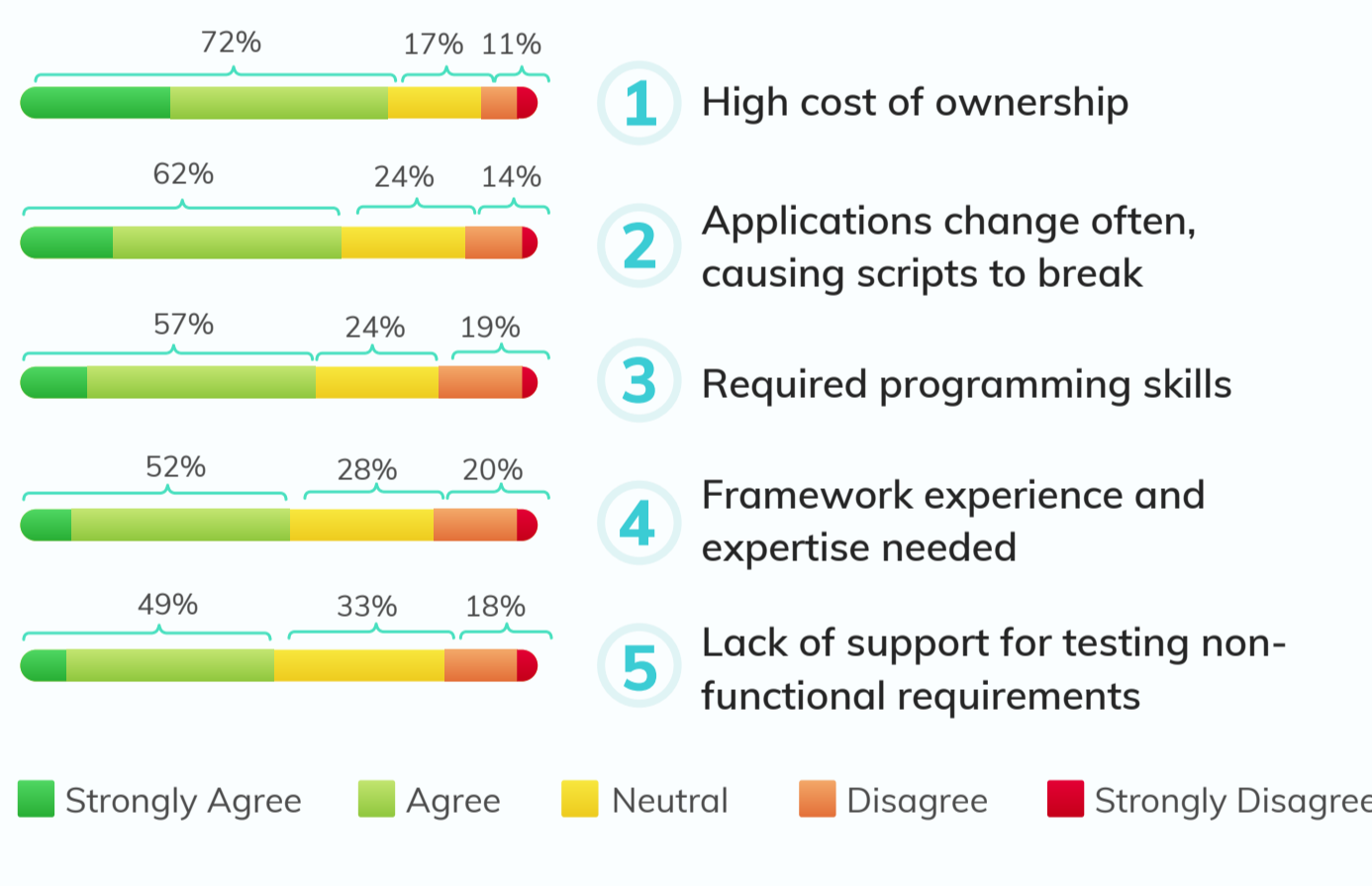


Top two criteria by those with 1+ yrs of experience



Issues with existing tools

- Managers agreed more with the challenges than non-managers
- Other issues:
 - Lack of analytics reports
 - High maintenance costs
 - Stiff learning curve

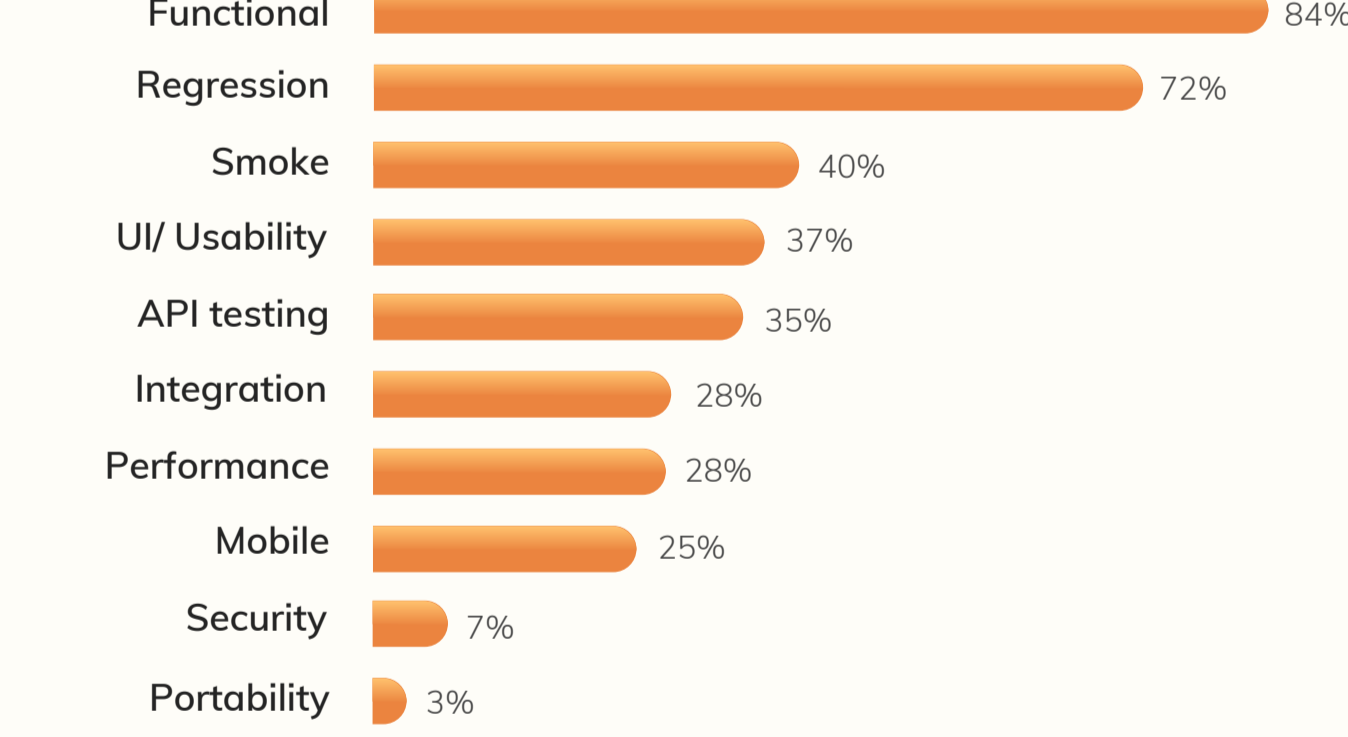


** To learn more about the result's details, visit www.katalon.com/surveys/

PROJECTS

Test types automated

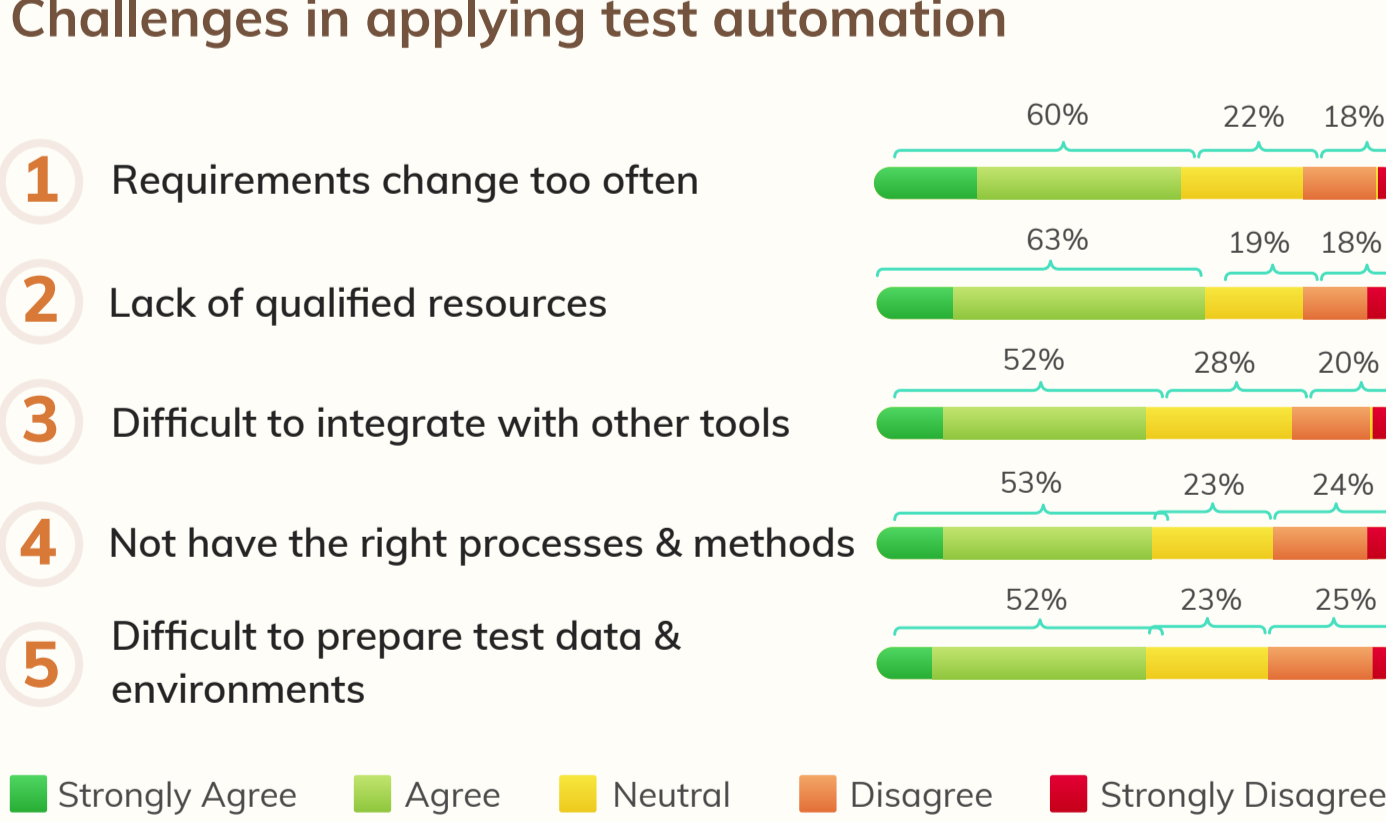
- Functional and regression testing are the most common tests applying automation
- Low automation adoption for mobile, security, and portability testing



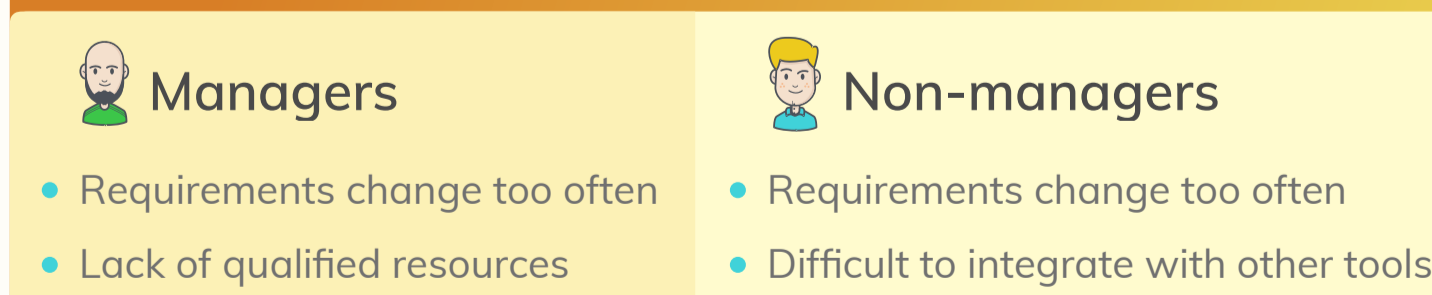
i This is a multiple-choice question.

Challenges in applying test automation

- Other challenges:
 - Lack of time for test automation
 - Diverse applications & platforms to test
 - DevOps integration difficulties



Top two criteria by those with 1+ yrs of experience



** To learn more about the result's details, visit www.katalon.com/surveys/

SUMMARY

Selecting an automation testing solution is still a challenging and critical endeavor for any testing organization. Opensource-based solutions seem to be the preferable choice for the transition with low ownership cost, abundant training materials, and active user communities but require a high level of programming skills. Functional testing continues to be the top choice for automation primarily in regression and smoke test areas. API is apparently a new star, but surprisingly mobile is not even in the top five automated test types. The problems with automation stem from human resources, process, and tools to the application under test, suggesting that a successful test automation deployment is a synergy of the whole organization.

To learn more about the survey and download our whitepaper, please visit www.katalon.com/surveys/