

TÜRKIYE SOFTWARE QUALITY REPORT

2024-2025





Foreword

As Turkish Testing Board (www.turkishtestingboard.org), we are pleased to bring you the 2024-2025 edition of Turkey Software Quality Report (TSQR) which focuses on “Mobile Testing”. In this edition of TSQR, various aspects of mobile testing and software testing were questioned. Here are our key findings:

Top three trending topics for software testing profession in near future are Artificial Intelligence (AI) assisted testing (85.9%), test automation (54.9%), and cloud testing (36.6%)

Top three risks and/or challenges faced while execution of mobile testing are user interface (UI) and user experience (UX) problems and limitations (60.6%), device fragmentation and proliferation (38%), and application performance (36.6%)

Three most commonly used types of testing for mobile applications are functional testing (85.9%), usability testing (74.6%), and performance testing (52.1%)

Three most common test techniques used for mobile testing are use case testing (50.7%), user story testing (50.7%), and boundary value analysis (29.6%)



Foreword

In this report, you will also find the trends, tips and obstacles regarding these very hot topics. The report is also designed to help organizations and especially decision makers to make paradigm shifts in their mindsets. It not only draws a clear picture of the current situation in the Turkish software development and software testing industry, but also sets the de-facto standards and trends for future information technology (IT) projects. We hope this report will be a reference point for all decision makers.

With the help of TSQR, we are trying to lay down the foundations of a healthy discussion platform for improvements in the Turkish software testing market. As a conventional practice, TSQR was presented at the opening ceremony speech of 15th International TestIstanbul Conference 2024 (testistanbul.org).



Survey Questions

1

What are the 3 most commonly used types of testing for mobile applications?

2

What are the top risks and/or challenges faced while execution of mobile testing?

3

What will be the most 3 trending topics for software testing profession in near future?

4

What is the percentage of automated test cases you use with respect to your overall mobile test cases?

5

What are the 3 most common test techniques used for mobile testing?



Survey Questions

6

What are the 3 most important key performance indicators (KPI) for mobile tests?

7

What are the 3 most important principles of mobile testing?

8

What are the 3 most common system problems you encountered while conducting mobil tests?

9

What are the 3 most important key considerations for device selection in mobile testing?

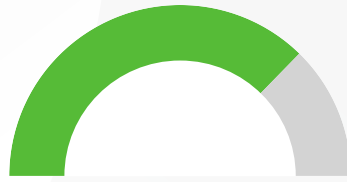
10

What are the common mistakes that are done during mobile testing?

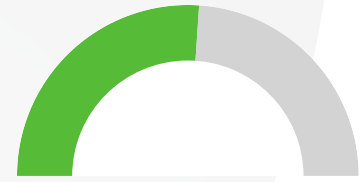
What are the 3 most commonly used types of testing for mobile applications?



Functional testing
85.9%



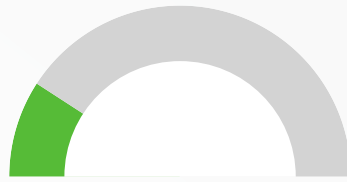
Usability testing
74.6%



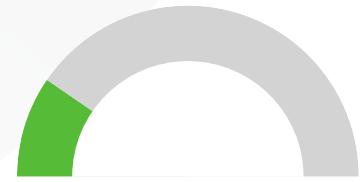
Performance testing
52.1%



Accessibility testing
18.3%



Load/Stress testing
18.3%



Security testing
16.9%



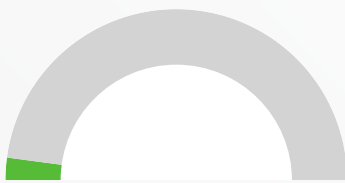
Availability testing
7.0%



Localization testing
5.6%



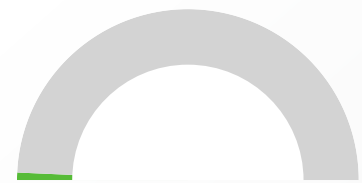
Interoperability testing
4.2%



Reliability testing
4.2%



Scalability testing
4.2%



Maintainability testing
1.4%



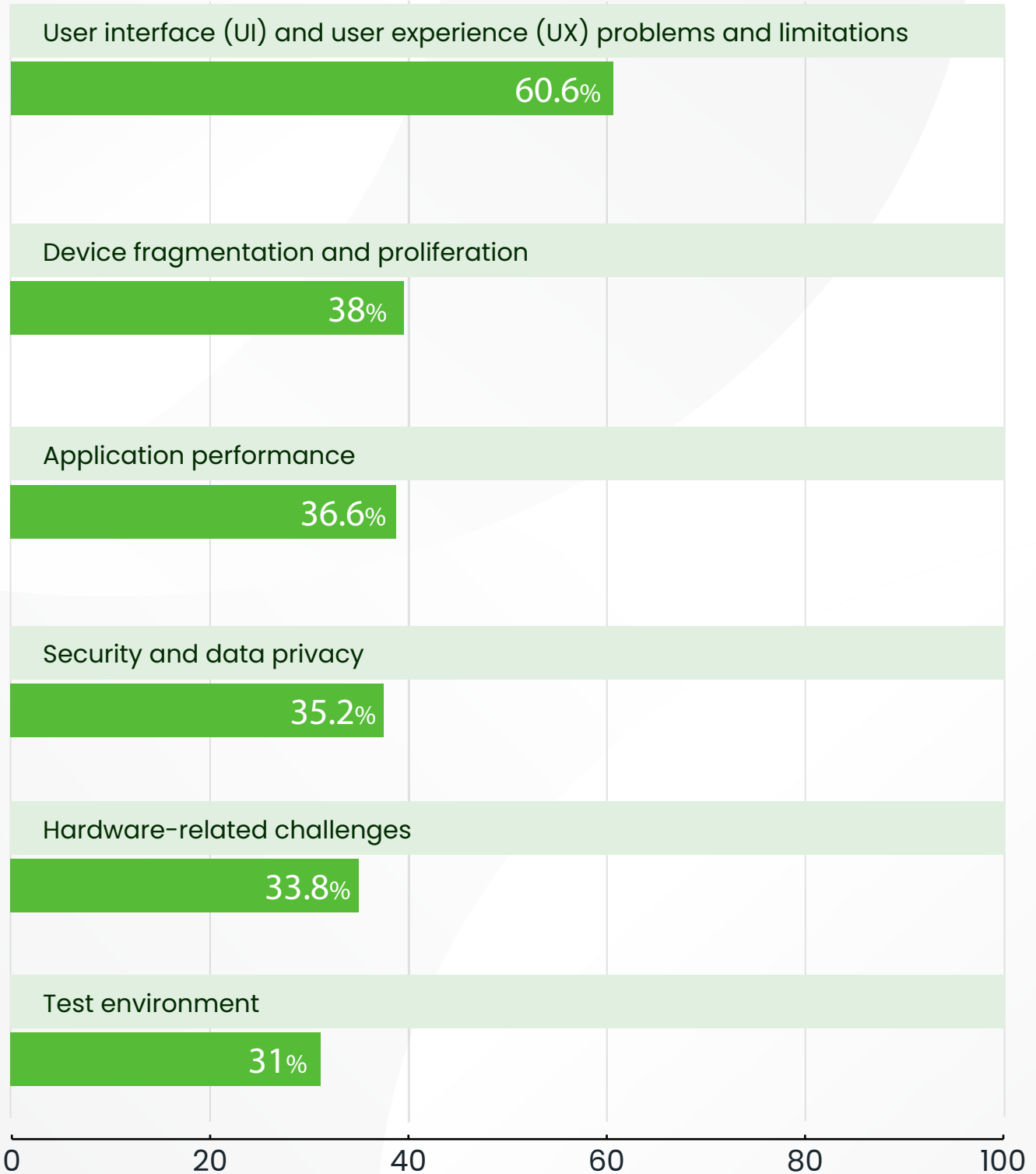
None
1.4%



Other
0%

2

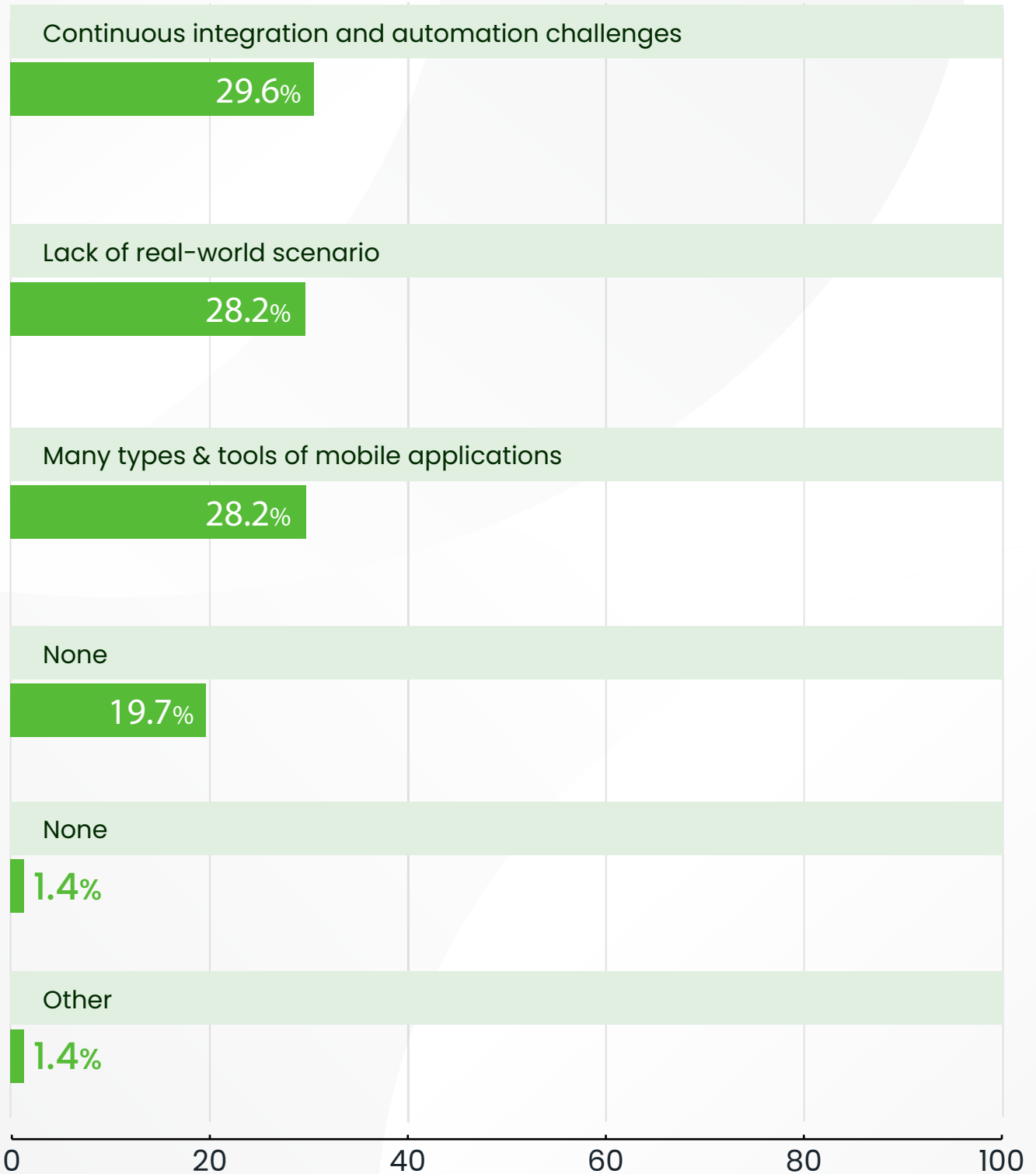
What are the top risks and/or challenges faced while execution of mobile testing?



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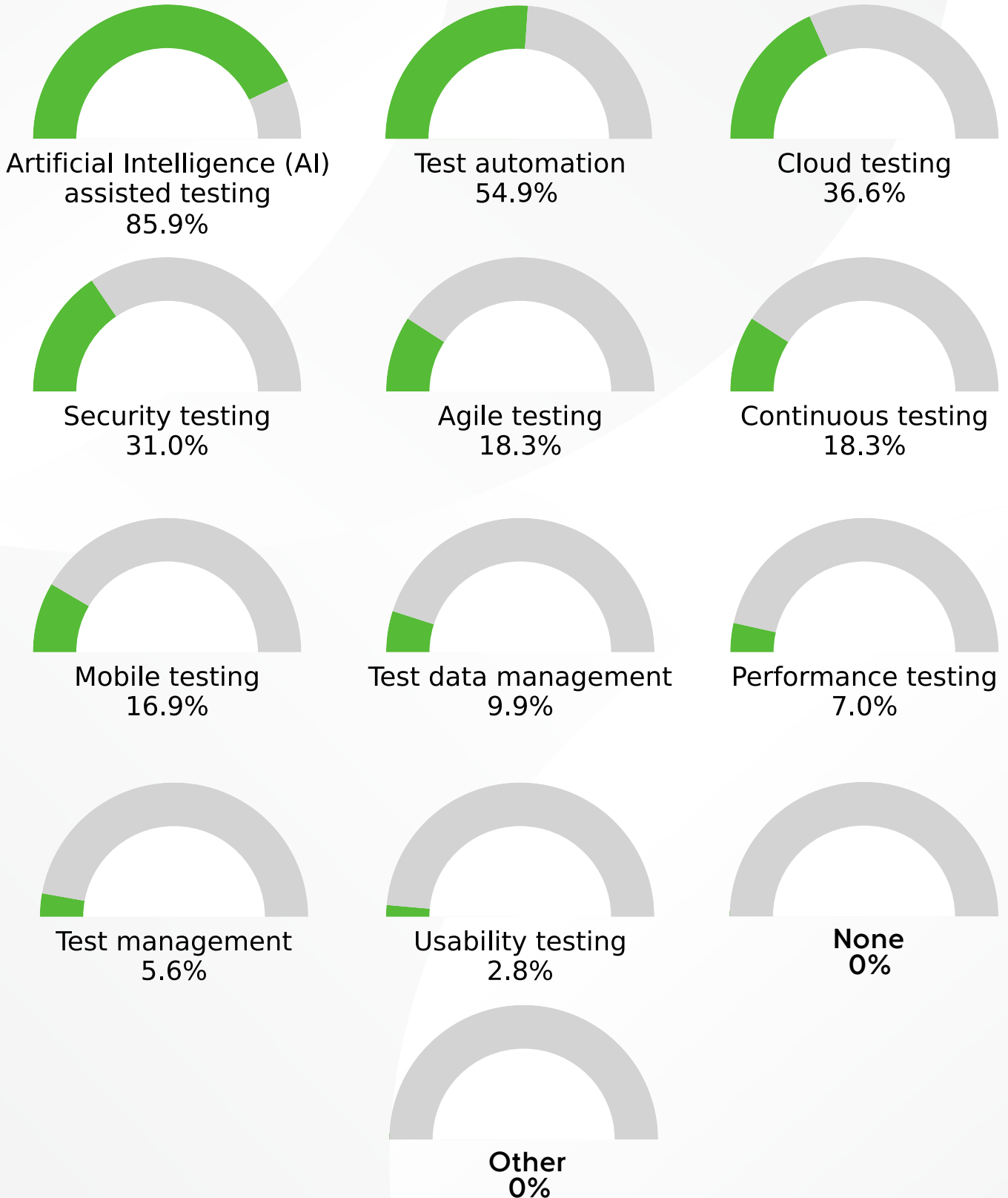
2

What are the top risks and/or challenges faced while execution of mobile testing?



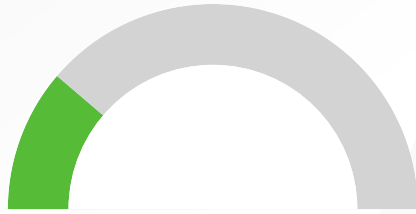
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What will be the most 3 trending topics for software testing profession in near future?

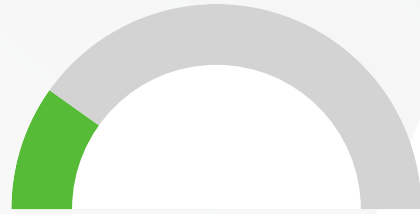


4

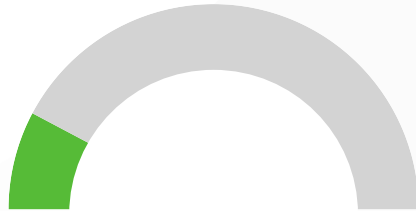
What is the percentage of automated test cases you use with respect to your overall mobile test cases?



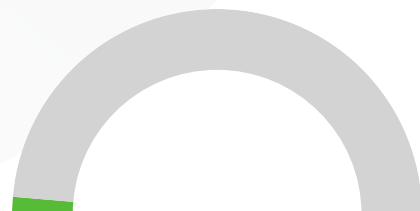
More than 50%
22.5%



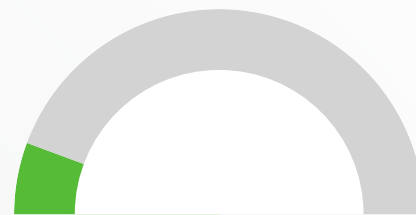
31% - 40%
19.7%



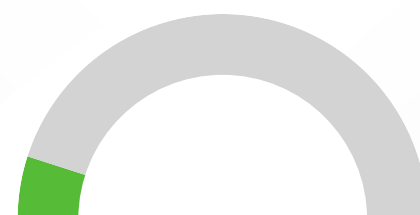
41% - 50%
15.5%



1% - 10%
2.7%



21% - 30%
11.3%



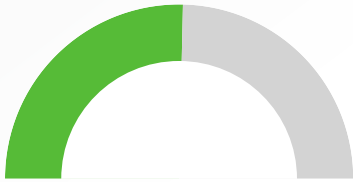
None
9.9%



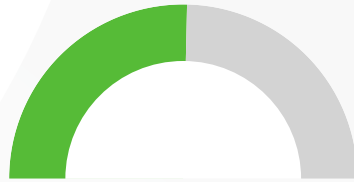
11% - 20%
8.5%

5

What are the 3 most common test techniques used for mobile testing?



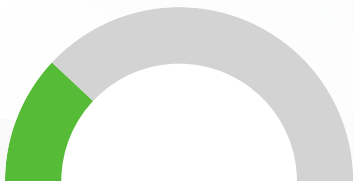
Use case
50.7%



User story
50.7%



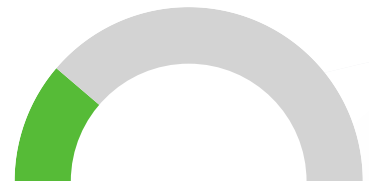
Boundary value analysis
29.6%



Decision tables
23.9%



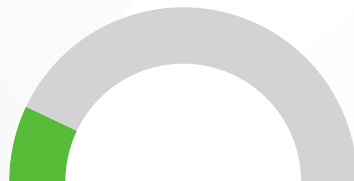
Equivalence partitioning
23.9%



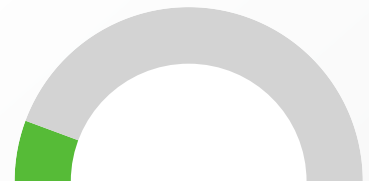
Check-list based
22.5%



Exploratory
19.7%



Error Guessing
14.1%



State transition
11.3%

Continue >

5

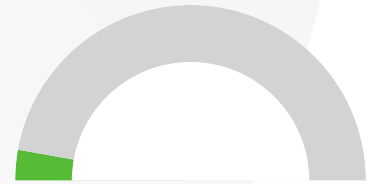
What are the 3 most common test techniques used for mobile testing?



Multiple Condition
9.9%



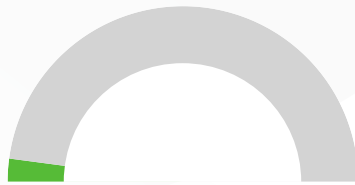
Defect-based techniques
5.6%



Pairwise
5.6%



Classification tree
4.2%



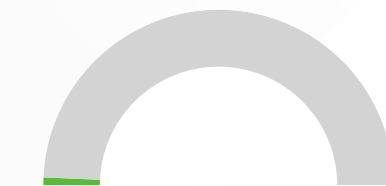
Statement coverage
4.2%



Attacks
2.8%



Condition
2.8%



Branch (Decision) Coverage
1.4%



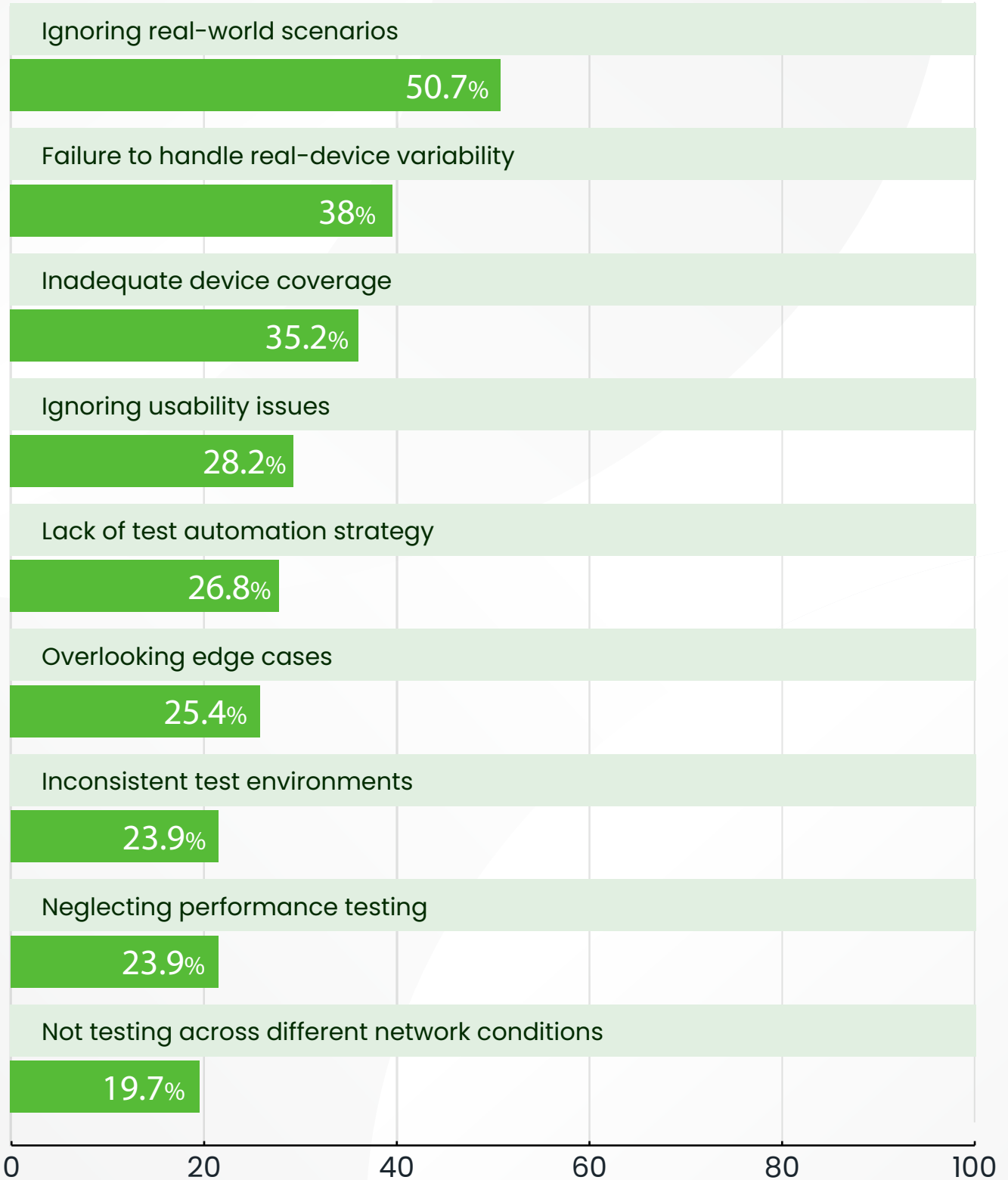
None
1.4%



Other
0%

6

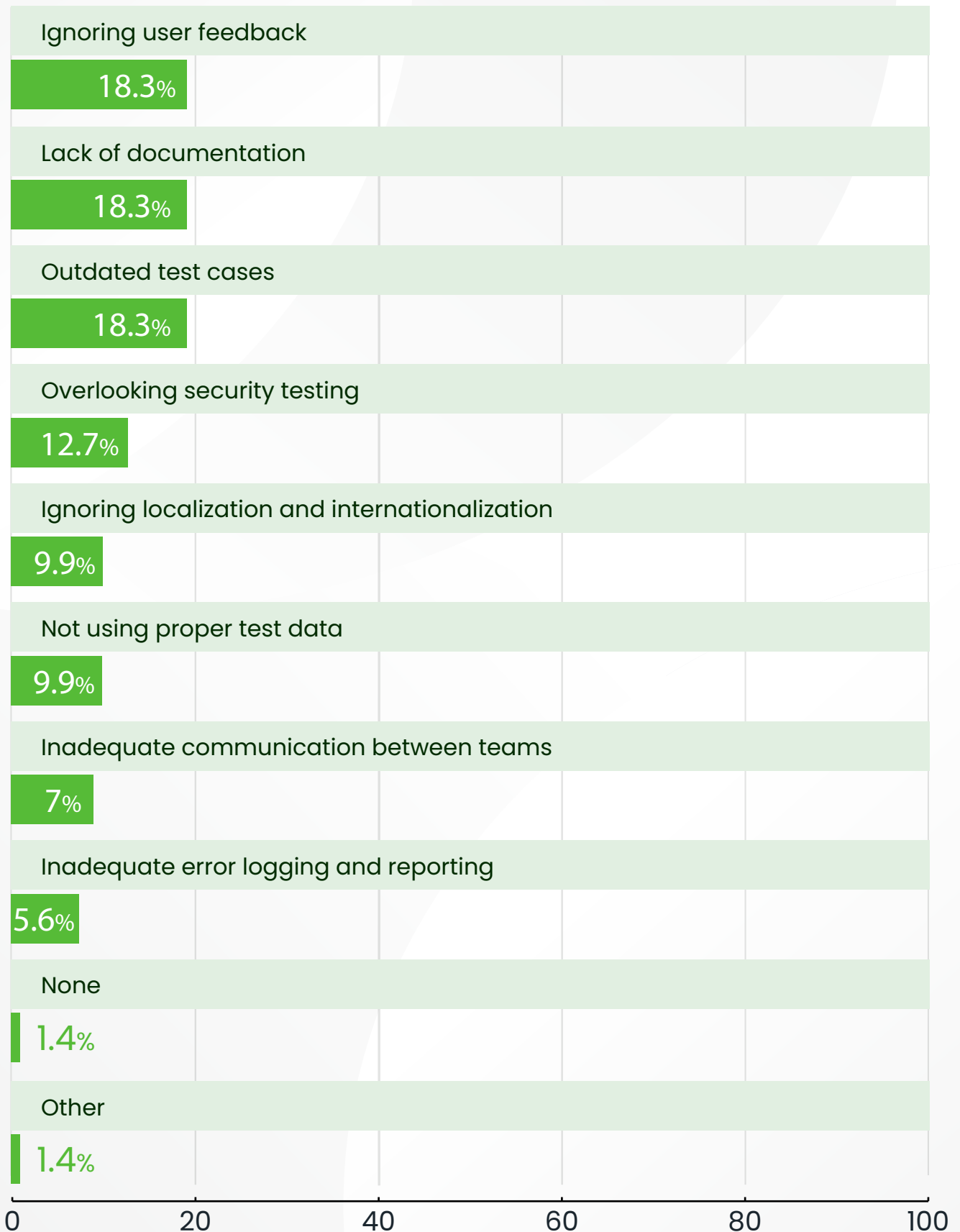
What are the common mistakes that are done during mobile testing?



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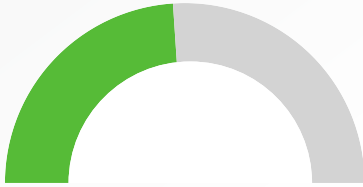
6

What are the common mistakes that are done during mobile testing?



7

What are the 3 most important key performance indicators (KPI) for mobile tests?



Requirements coverage
47.9%



Test automation case coverage
31.0%



Regression test success rate
29.6%



Test pass rate
29.6%



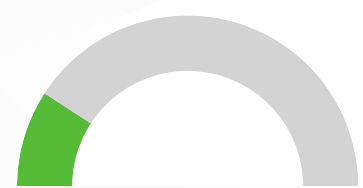
Crash rate
21.1%



Defect density
19.7%



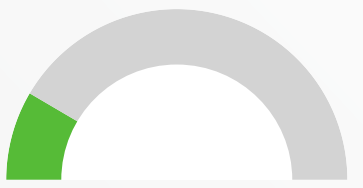
Device and OS coverage
19.7%



Test execution time
18.3%



Customer reported issues
16.9%



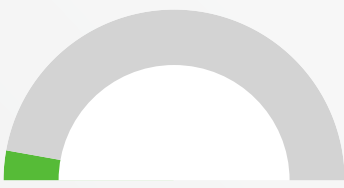
Defect detection rate
16.9%



User experience issues detected
16.9%



Defect resolution time
11.3%



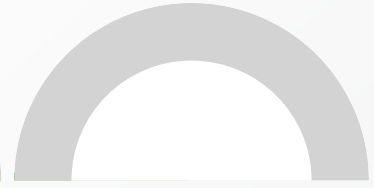
Test efficiency
5.6%



Test case execution status
5.6%



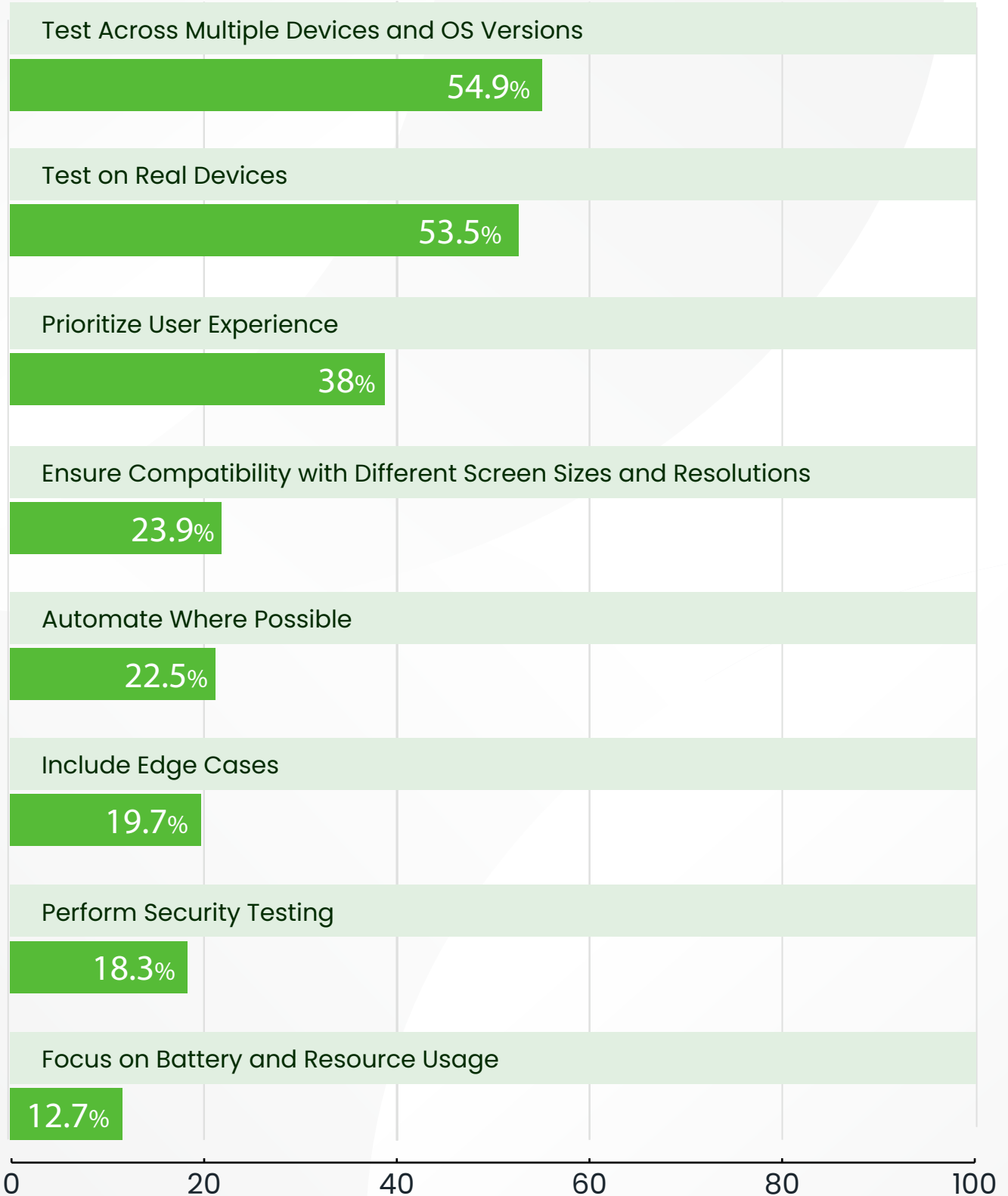
Other
0%



None
0%

8

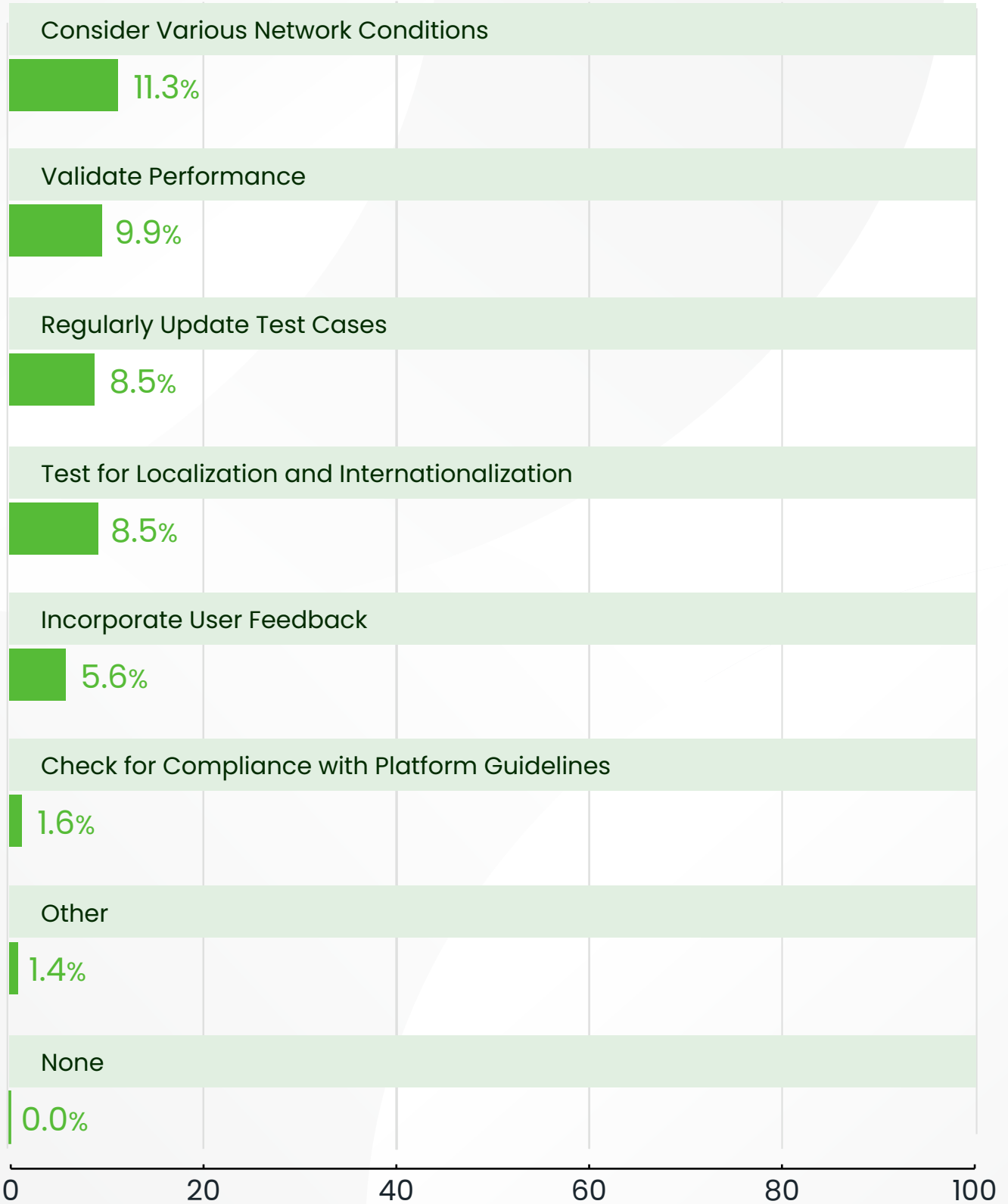
What are the 3 most important principles of mobile testing?



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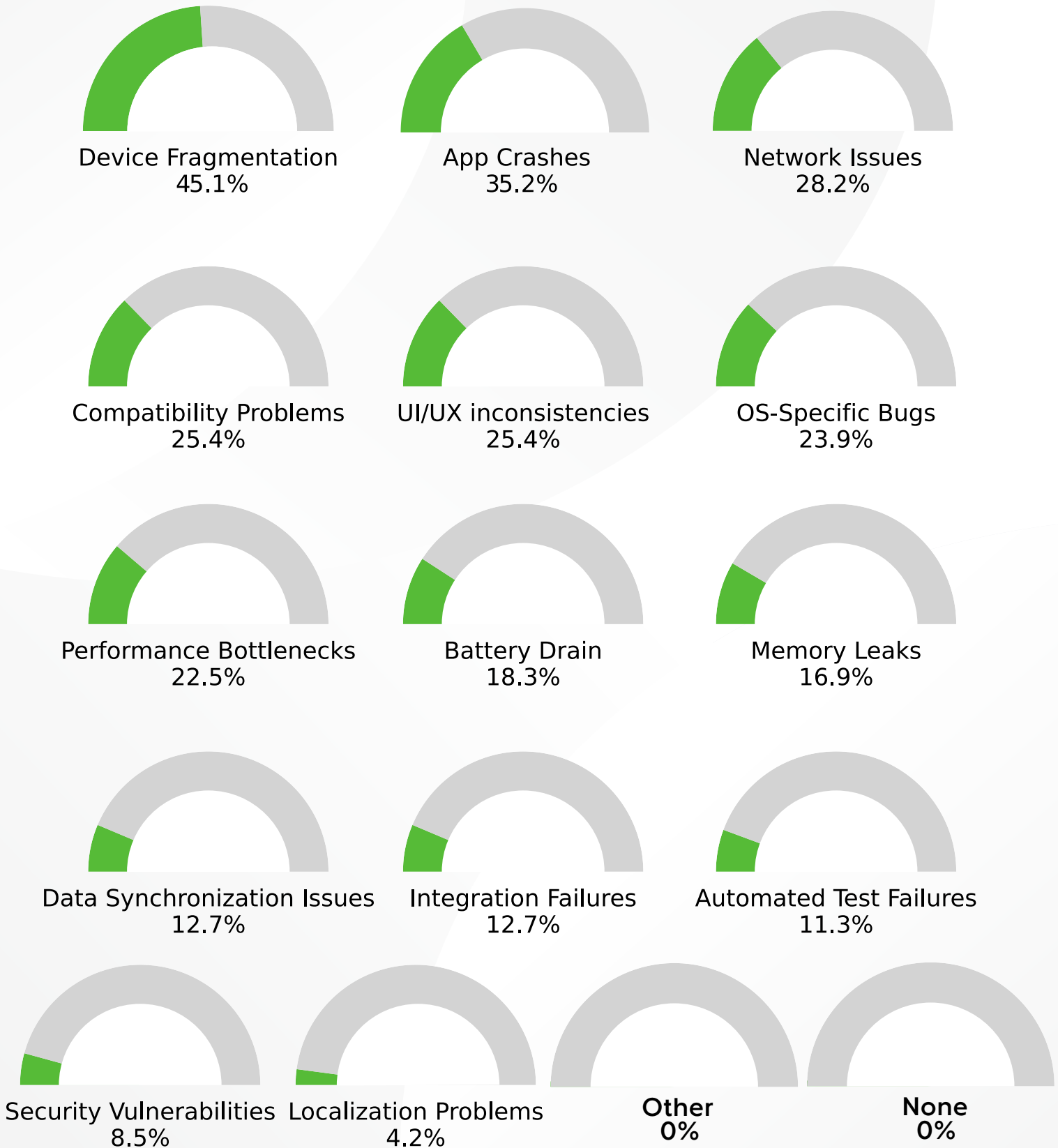
8

What are the 3 most important principles of mobile testing?

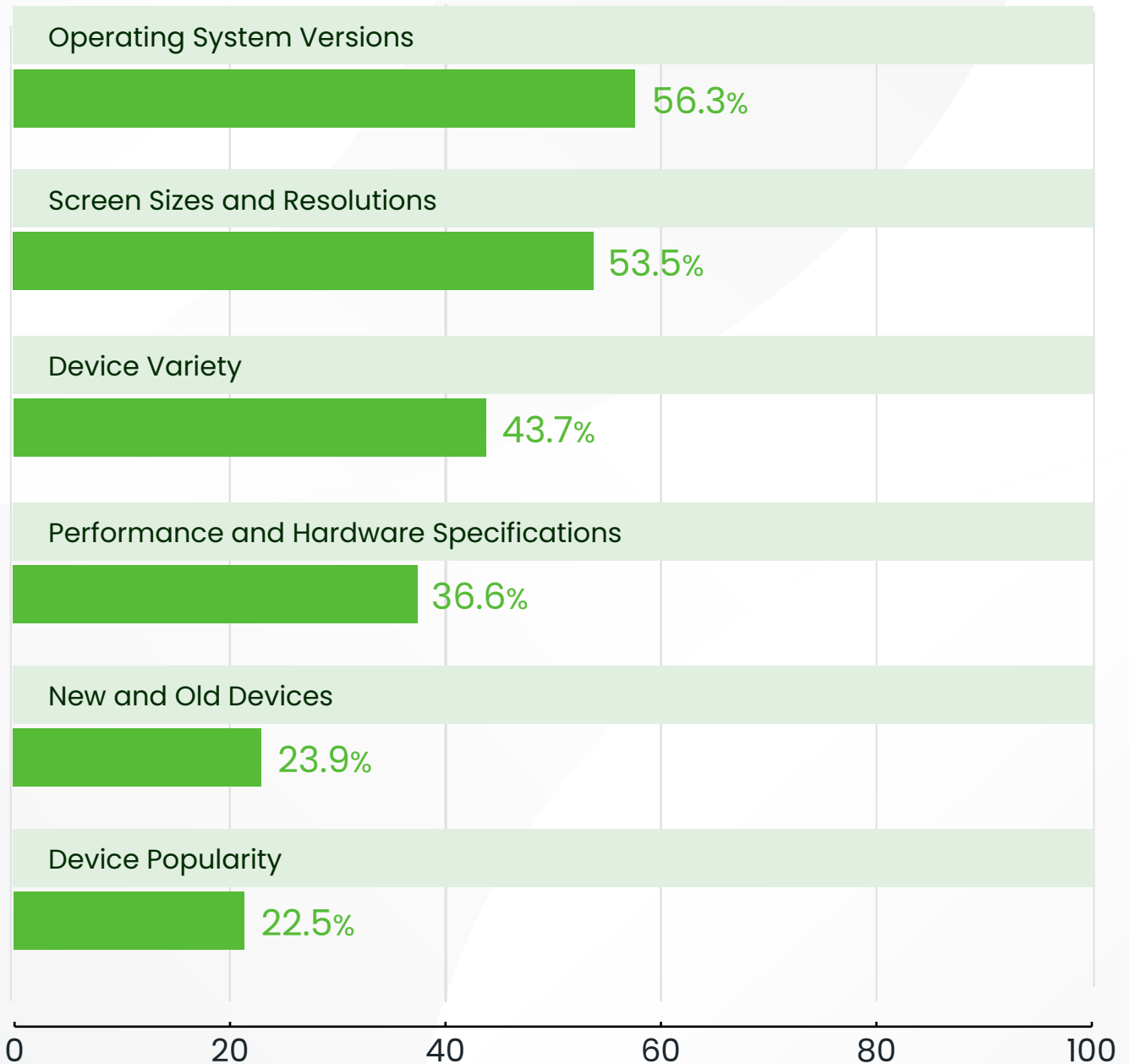


9

What are the 3 most common system problems you encountered while conducting mobile tests?

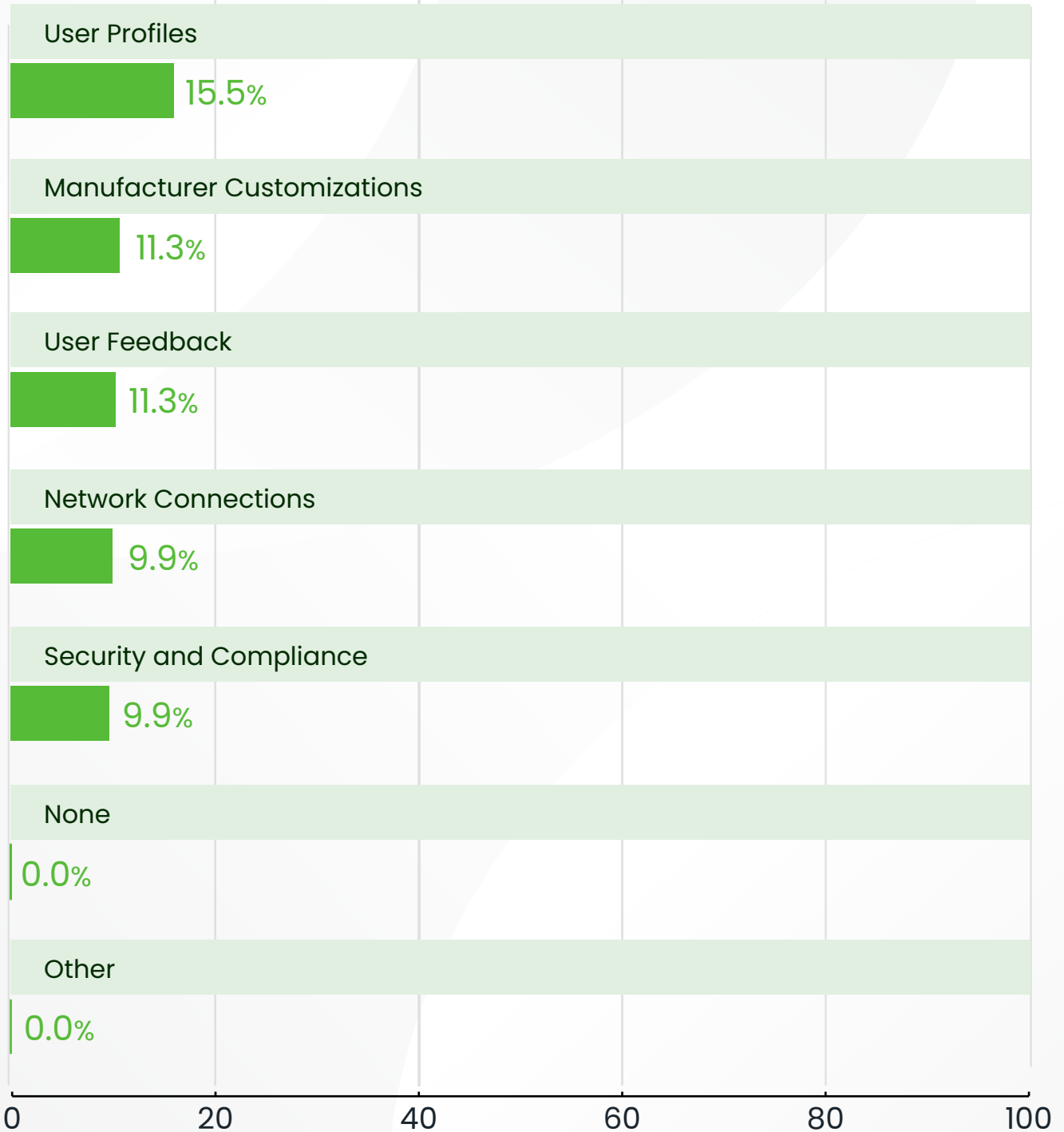


What are the 3 most important key considerations for device selection in mobile testing?



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What are the 3 most important key considerations for device selection in mobile testing?





About



ISTQB® is a global, non-profit organization responsible for enabling test professionals, through globally accepted software testing certification standards to support their career development. As of June 2023, ISTQB® has administered over 1,3 million exams and issued more than 957k certifications in over 130 countries world-wide. The scheme relies on a Body of Knowledge (Syllabus and Glossary) and exam rules that are applied consistently all over the world, with exams and supporting material being available in many languages.

www.istqb.org



About



Turkish Testing Board has been carrying out the following activities to increase software testing awareness in the information technology sector since 2006. International Certification Turkish Testing Board conducts international ISTQB® certification exams and gives internationally accredited certificates to participants who are successful in the exam. More than 7,000 tester candidates have applied to the board and entered the certification exams since 2006.

Certification Exams

- » ISTQB® Foundation Level Certified Tester (CTFL)
- » ISTQB® Specialist – Performance Testing (CT-PT)
- » ISTQB® Specialist – AI Testing (CT-AI)
- » ISTQB® Specialist – Mobile Application Testing (CT-MAT)
- » ISTQB® Advanced Level – Test Analyst (CTAL-TA)
- » ISTQB® Foundation Level – Agile Tester (CTFL-AT)
- » ISTQB® Specialist – Test Automation Engineer (CT-TAE)
- » ISTQB® Specialist – Automotive Software Tester (CT-AuT)
- » ISTQB® Advanced Level – Test Manager (CTAL-TM)
- » ISTQB® Advanced Level – Technical Test Analyst (CTAL-TTA)

Translation Projects

The translation group within the board works on the translation of ISTQB® documents and exams in order to bring international software testing terminology to Türkiye. Documents translated so far are as follows:

- » ISTQB® Certified Tester Foundation Level Syllabus 2011
- » ISTQB® Software Testing Glossary
- » TMMi® in the Agile World (Çevik Bir Dünyada TMMi)
- » ISTQB® Certified Tester Foundation Level Syllabus v4.0 (2024)
- » ISTQB® Certified Tester Foundation Level Syllabus 2018
- » ISTQB® Certified Tester Advanced Level – Test Analyst 2012
- » Dragons Out – A Dragon Lesson of Software Testing (Bir Ejderhadan Yazılım Test Dersi)

www.turkishtestingboard.org



About



16TH INTERNATIONAL

TESTISTANBUL
CONFERENCE

AI-assisted Testing to 10x Accelerate Manual Testing and Test Automation

October 9-10, 2025 | Virtual Conference

Turkish Testing Board has been organizing International Testistanbul Conferences since 2010. In the last fifteen conferences, more than 80 keynotes and more than 6,700 participants from 25 countries were hosted. Turkish Testing Board is a non-profit organization, the profit of Testistanbul Conferences is donated to scholarships. As of October 2024, the total number of scholarship students has exceeded 100.

The board organizes sector or topic-based panels for the development of the software testing industry. More than 1,300 professionals have attended the events. The panels and events held so far are TestRemote, TestFinance, TestInsurance, TestAnkara, TestIzmir, TestGames, TestFinTech, TestDefence.

www.testistanbul.org



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