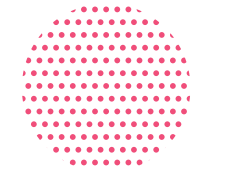
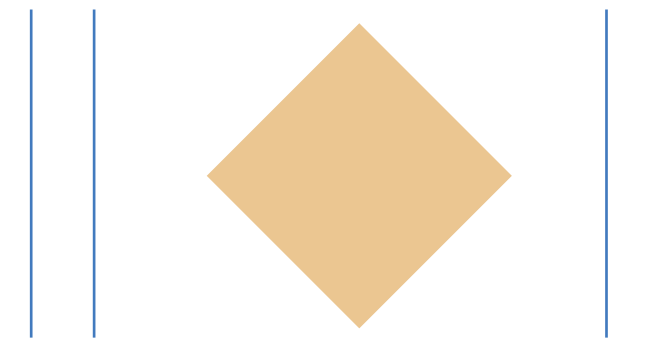
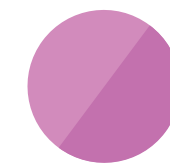
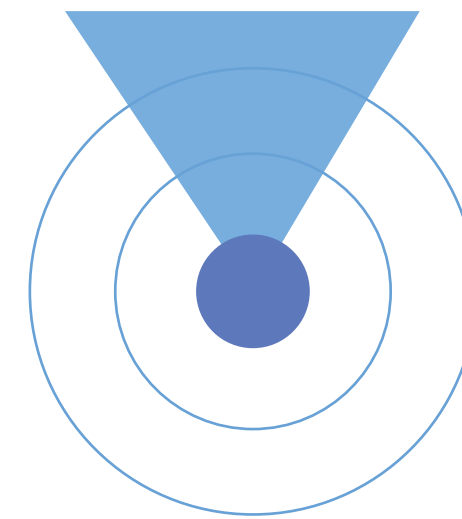


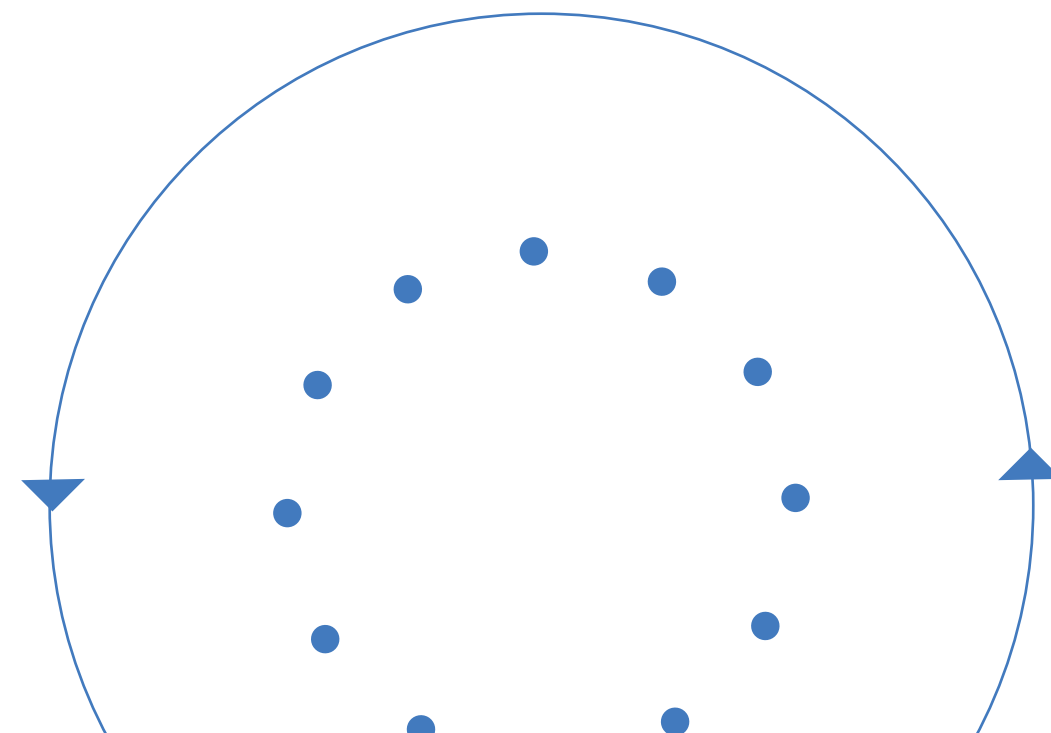
IMQA Mobile Performance Monitoring Solution Introduction



Mobile Performance
Monitoring Solution
With IMQA

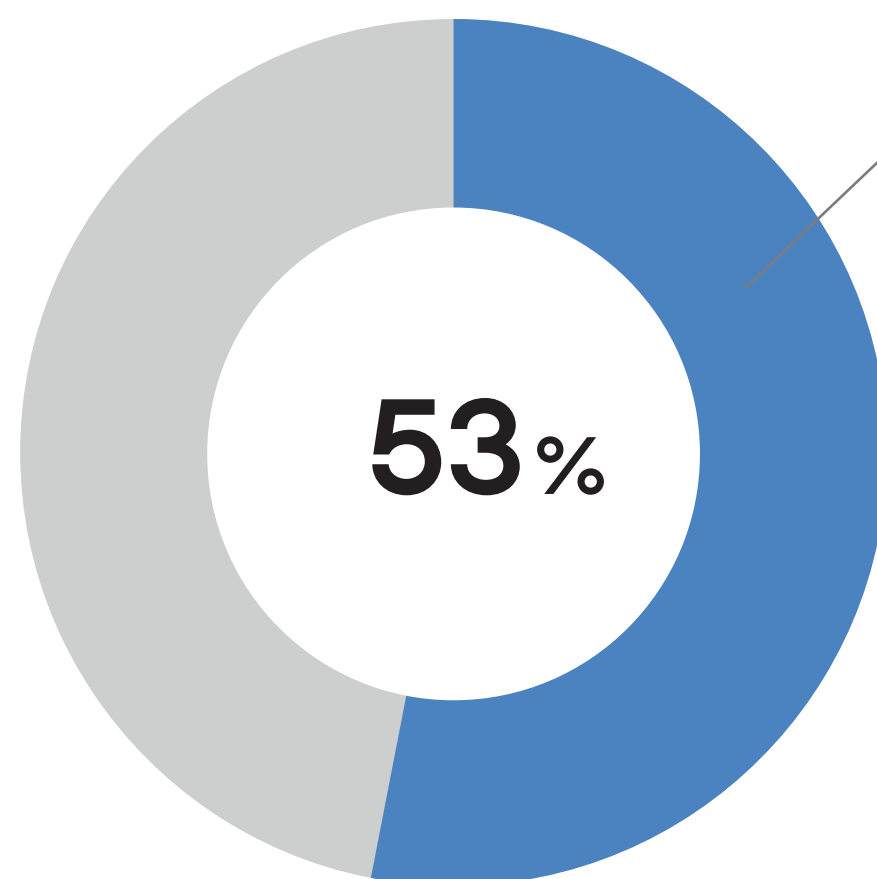


www.imaq.io



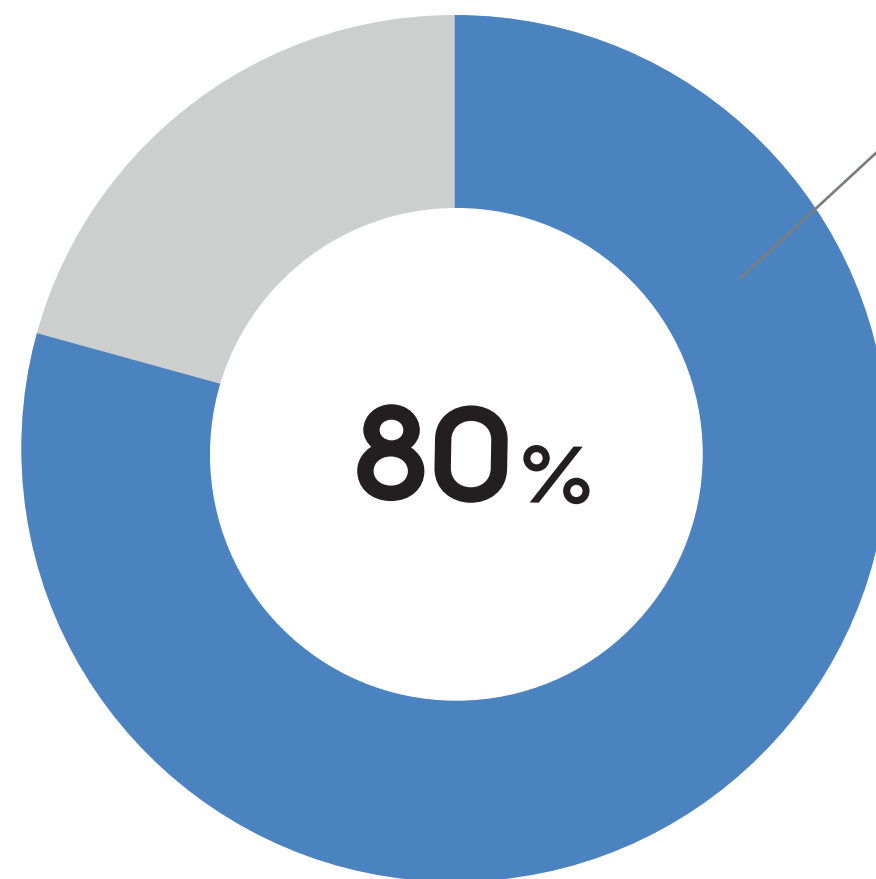
Mobile users value the performance satisfaction of their services.

Companies can only see customer satisfaction with their mobile service as a star rating at App Store, But It is different from the actual customer's satisfaction rating.



mobile service wait time is more than 3 seconds, 53% will abandon the connection and double the AD rate when accessing within 5 seconds

[Google - A study on the impact of mobile latency and publisher revenue in 2016 by Google]



80% of Users delete apps because they are not running properly, and due to performance issues, more than half have deleted or abandoned apps.

[AppDynamics - The App Attention Span]





Optimize for Mobile Performance



What is MPM?

Mobile performance management refers to the mobile management system that ensures and maintains optimal mobile application status through performance monitoring and failure monitoring of mobile applications.

Companies want to be able to quickly detect, analyze, and respond to current failures in their mobile applications to keep their performance stabilize.

The mobile market is growing year by year in demand and supply, but there is not enough support to increase or maintain customer satisfaction. IMQA helps optimize mobile performance through real-time monitoring to meet the rapidly changing mobile market while ensuring the basic performance of mobile applications.



Why do you need an MPM?

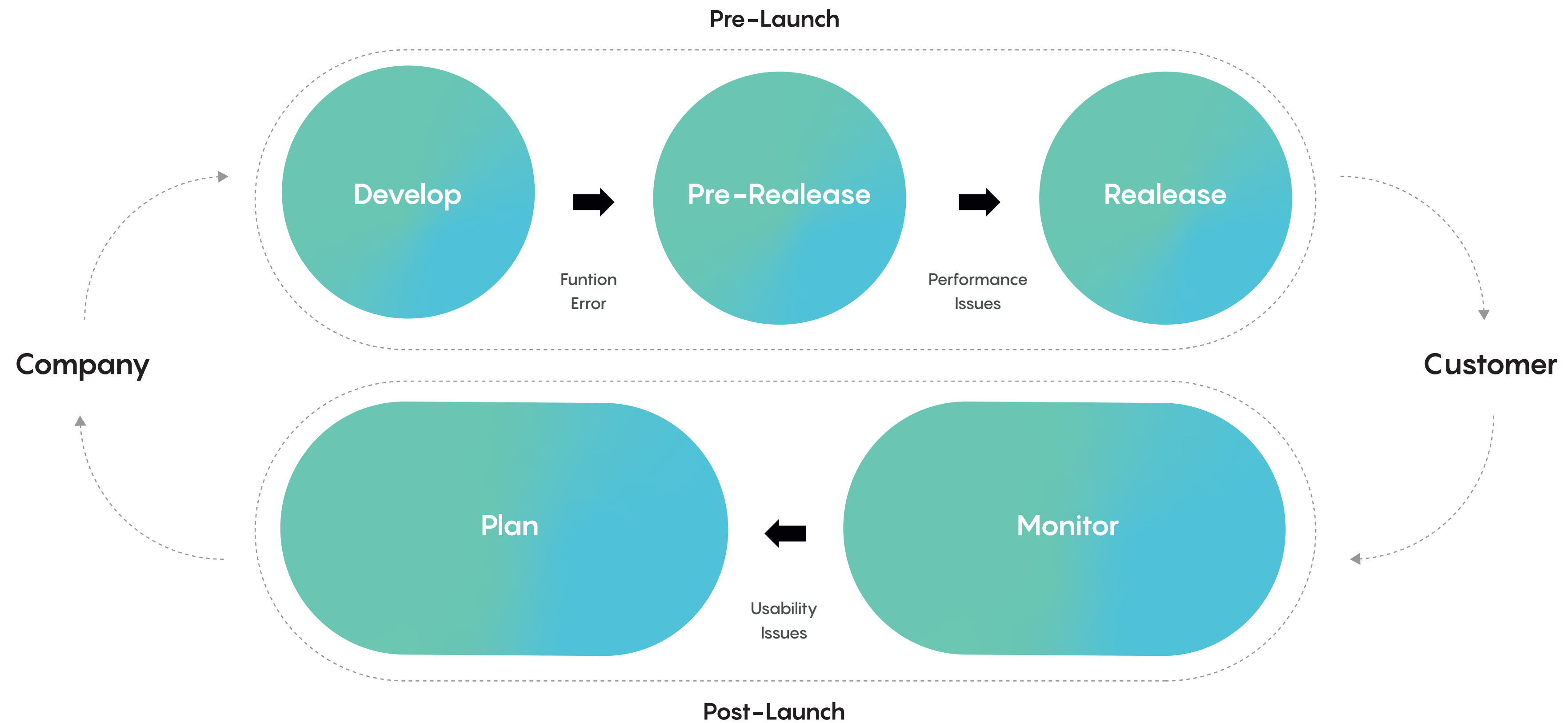
Mobile applications are being used in almost every aspect of the enterprise business, and their importance is also increasing. The market is changing as we focus on design and UX in a time of increasing user satisfaction through performance management.

IMQA MPM is the only monitoring solution for performance that focuses on performance improvement, although there are many ways to improve user satisfaction of mobile services in the enterprise. Performance monitoring that is limited to a third-party Crash Report is not enough for real-time performance management. IMQA MPM is a real-time performance monitoring solution capable of analyzing the malfunction of the enterprise's mobile application performance, malfunction, source code level performance analysis.



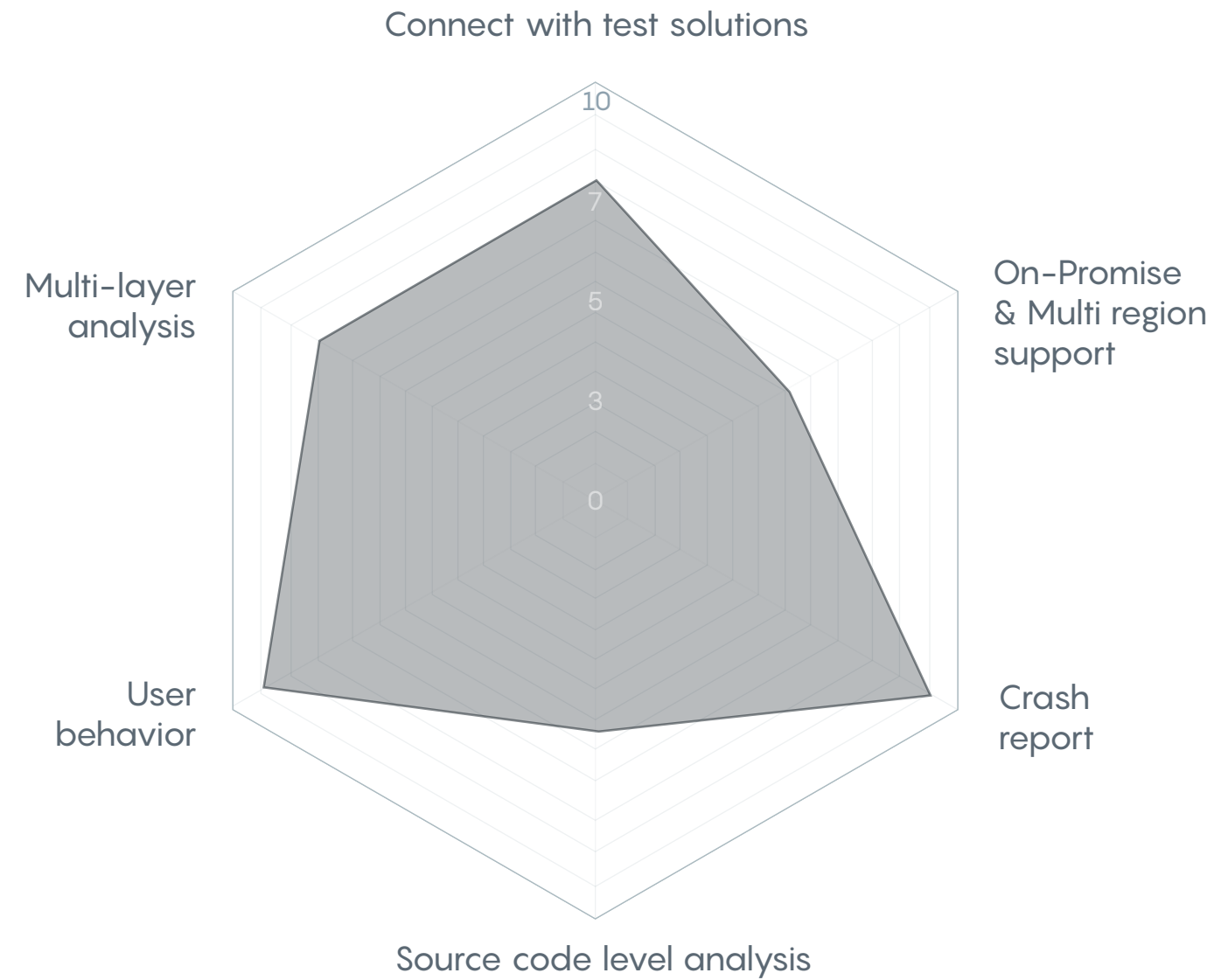
Dev Ops — Fast Dev Ops in mobile

IMQA analyzes the various performance issues that arise in the development and service stages of the mobile application, and provides an automated mobile performance management process ultimately by finding out the causes and suggesting solutions.



Why do customers choose IMQA?

Mobile performance monitoring, which is being demonstrated by other companies, is limited to identifying the cause of performance problems based on the Crash Report. However, since IMQA monitors real-time performance based on the user, it can monitor various user-centered performance, analyze it, and measure various service satisfaction through user's viewpoint and action analysis.

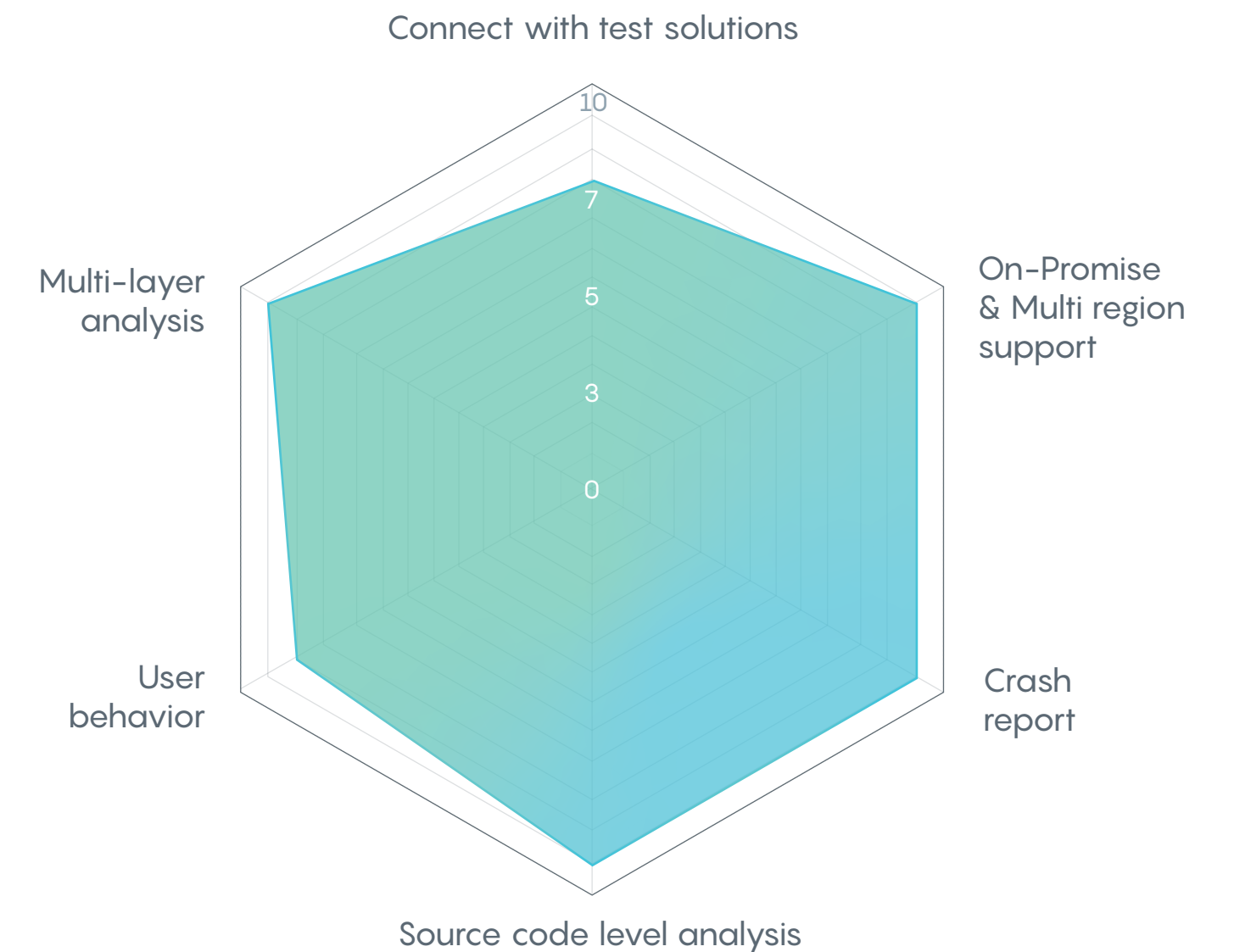


IMQA mobile monitoring

- Pre-release error checking and performance checking
- Provides real-time app performance monitoring
- Support for various mobile OS
- On-Premise, SaaS service
- Identify problems from a user perspective
- User satisfaction measurement through user behavior analysis

Third-party mobile monitoring

- Identify problems that are focused on post-crash
- Pre-release error checking
- Gain satisfaction with users after use
- User usage pattern analysis
- Provided as a SaaS service



IMQA Mobile Monitoring Solution



With real-time performance monitoring, you can quickly get the quality of your mobile app.



Accurate analysis allows you to quickly respond to anomalies that have occurred.

Introducing IMQA Mobile Monitoring Solution

IMQA provides mobile performance monitoring (MPM) and mobile anomaly (crash) monitoring solutions with a filter-based multi-layer analysis of the mobile environment.

Unlike the method of checking the functional error through Quality Assurance (QA) before launch, it can contribute to the value creation by effectively managing the mobile performance by indexing the performance in each user's mobile environment.

IMQA closely monitors all layers of mobile applications.

- Performance correlation analysis based on user environment
- Analyze user behavior for each feature page
- Causal analysis for various bottleneck conditions
- Identify the cause of performance problems with easy tracking

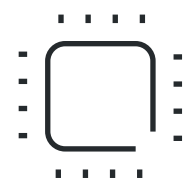
IMQA MPM

IMQA MPM supports the end-to-end management area of your company, including the usage environment of user of mobile application, pattern of resource usage, problems of usage, analysis and statistics for decision making.



User-environment-oriented performance association analysis.

Analyze usage environment and user behavior, analyze usage region and device type, operating system and resource usage to understand the type of performance failure.



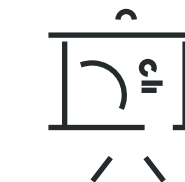
Resource usage analysis

CPU, Memory, Network, UI Rendering, and device sensor chip areas can be monitored to solve problems instantly through diversified correlation analysis.



Problem diagnosis and code-level analysis

Comprehensive analysis of the resources used to find the cause of the performance problem and resolve it by comparing the cause of the failure with the stack information.



Statistics and Reports

Reports with detailed metrics for performance monitoring enable quick understanding and immediate decision making using infographics and charts.

Using IMQA MPM

IMQA MPM provides an optimal monitoring environment for all personnel operating mobile services.

Service Operator

Stable mobile system operation

Operate the mobile system more reliably by minimizing the downtime through prompt resolution by instant cause analysis in case of mobile performance failure.

Service Development

Identify fast failures and resolve them quickly

Real-time alerts and comprehensive dashboards can help you pinpoint the cause of rapid failures. Ability to identify the cause of a performance problem on a code-by-block basis, enabling quick identification and resolution of a failure.

Project Manager

Stable project management and quantitative performance data management

The mobile environment resource and application performance statistics data are used to obtain quantitative data of mobile application and stabilize the quality of mobile application by evaluating stability of mobile service based on objective indicators.

Customer Service

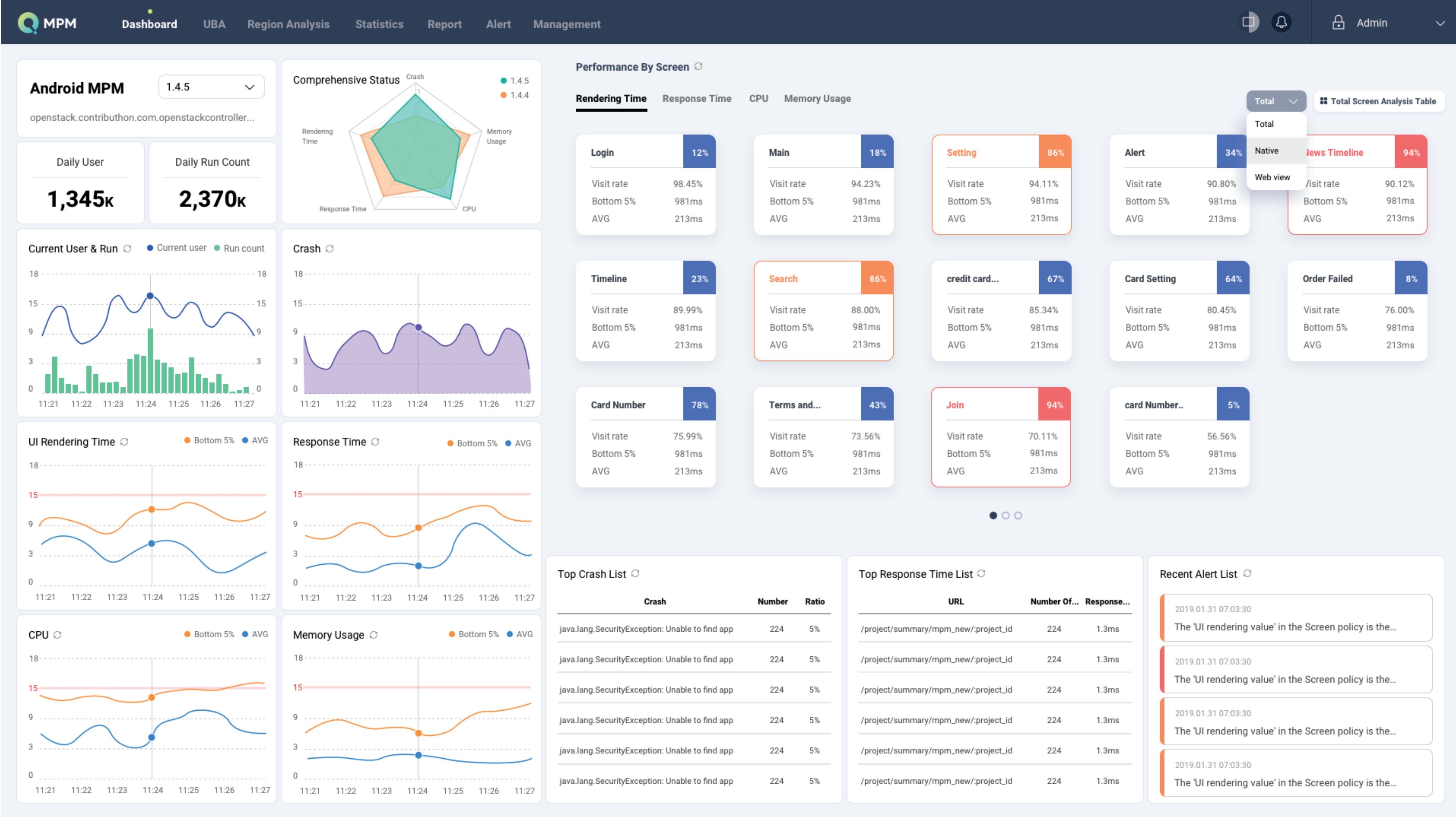
Improve customer service satisfaction

Real-time user behavior analysis measures real-time customer satisfaction and improves customer satisfaction with best service with low cost and effort.



Screen Description

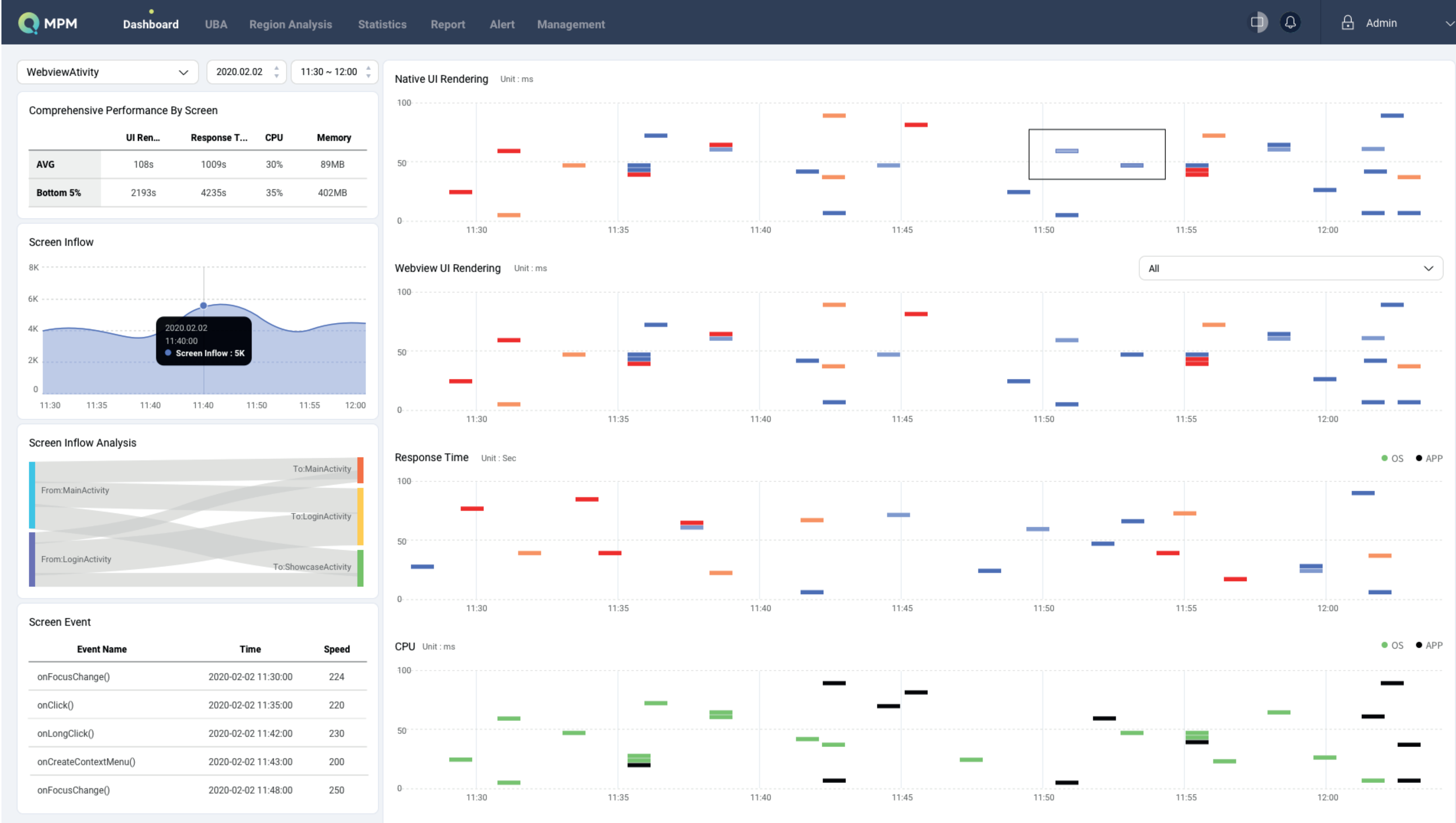
Dashboard



Variety of metrics. The IMQA dashboard is structured to help you understand the overall performance of your mobile app. Real-time performance charts on the left let you see real-time, comprehensive status in your app. The performance status of each screen on the right can be checked individually for the screens visited by the user. It also collects the app crashes and the network response time it calls, making it easy to track performance.

Screen Description

Screen Performance

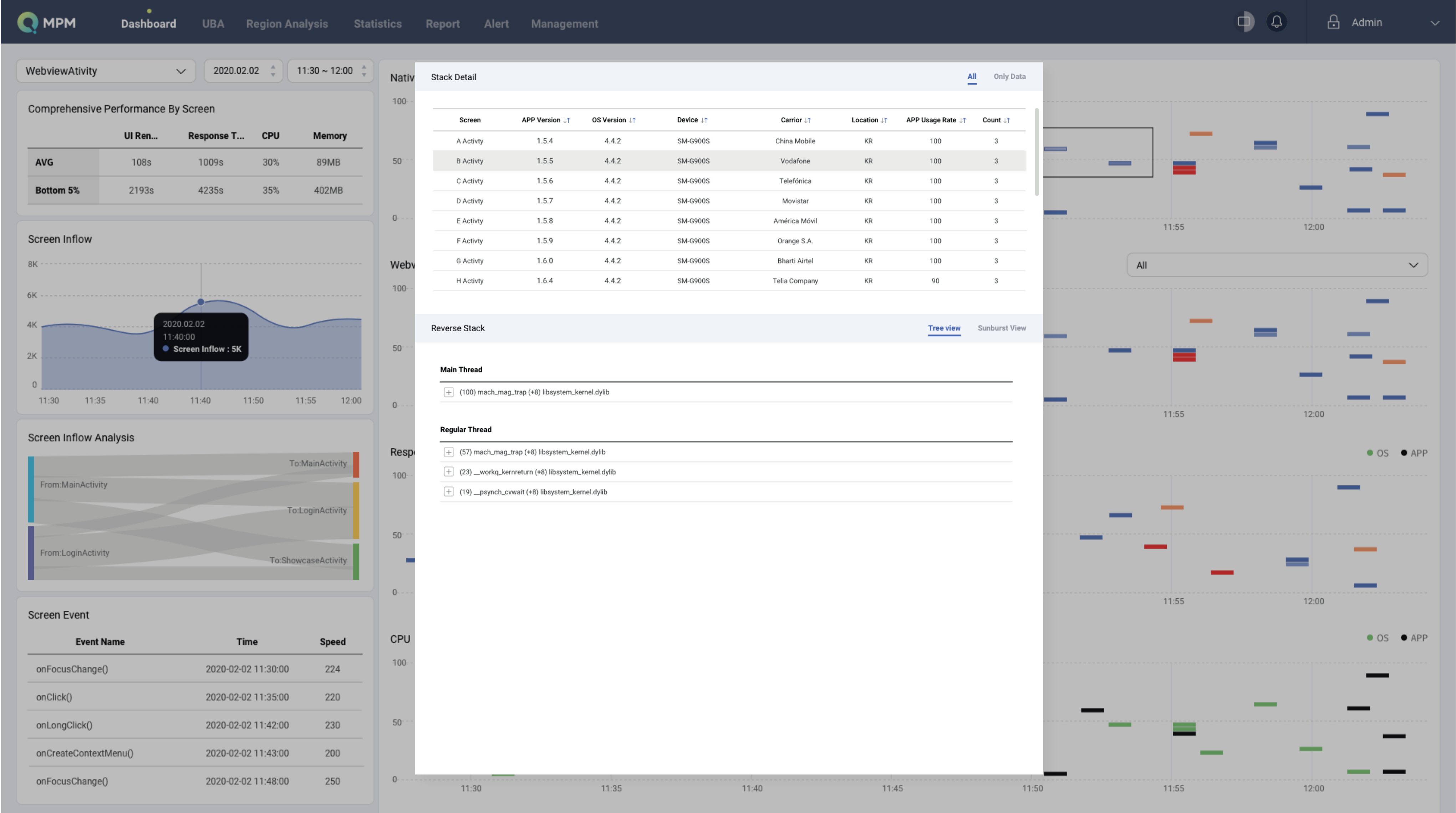


Mobile apps are organized by screen by default. Performance can be grasped and analyzed in individual screen units. You can monitor the comprehensive performance of each screen, analysis of screen influences, and events that occurred in detail. You can analyze detailed analysis of performance degradation through [*hit map](#).

※ Hit Map – This is a chart that shows each performance index in time units.

Screen
Description

Stack
Analysis

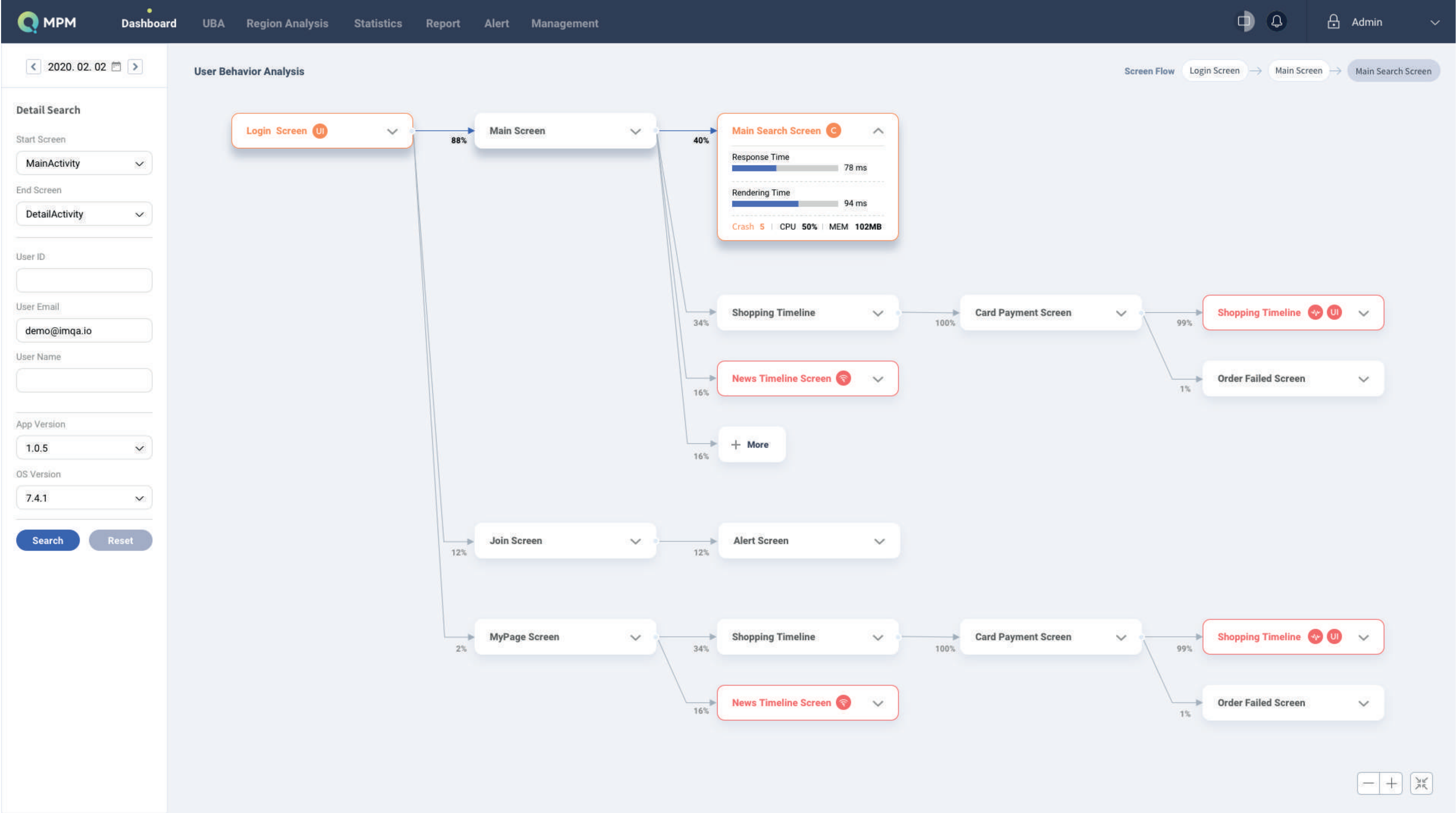


Shows the ***Call Stack** collected in a specific performance interval in a tree structure.
Your app developers can analyze the functions that are called at the code level to identify problems with performance degradation.

※ **Call Stack** – A function called at the time of collection.

Screen Description

UBA



User behavior analysis analyzes usage patterns of mobile users. This allows you to analyze and use actual user behavior patterns. We also show you a comprehensive performance metric for your screen, so you can see which segments your users are experiencing. The user search function can check the behavior pattern of a specific user. Screen area search can also check user behavior pattern within a certain section.

Screen
Description

Report

MPM

Dashboard

UBA

Region Analysis

Statistics

Report

Alert

Management

☰

🔔

🔒 Admin

▼

Report

We provide a report that comprehensive performance of the App.

<

FEB.2020

>

Sun

Mon

Tue

Wed

Thu

Fri

Sat

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

1.0.5

▼

APPLY

📄 PDF Download

📄 CSV Download

🖨️ Print

Date : 2020. 02. 11

App Name : Project

App Version : 1.0.5

Performance Report

▬ UI Rendering Time (Generated from 0 data)

UI Rendering Time	~16ms	~ 100ms	~1000ms	~25000ms	~35000ms	~38000ms	~40000ms	~42500ms	~50000ms
Ratio	50%	0.10%	20%	50%	0.10%	0.10%	20%	20%	0.10%

▬ Response Time (Generated from 0 data)

Response Time	~1000ms	~1000ms	~8000ms	~25000ms	~35000ms	~38000ms	~40000ms	~42500ms	~50000ms
Ratio	50%	0.10%	20%	50%	0.10%	0.10%	20%	20%	0.10%

▬ CPU Usage (Generated from 0 data)

CPU Usage	~10%	~20%	~30%	~40%	~50%	~60%	~70%	~80%	~90%	~100%
Ratio	50%	0.10%	20%	50%	0.10%	0.10%	20%	20%	20%	0.10%

▬ Memory Usage (Generated from 0 data)

Memory Usage	~30M	~100M	~200M	~500M	~1000M	~1500M	~2000ms	~2500ms	~3000M
Ratio	50%	0.10%	20%	50%	0.10%	0.10%	20%	20%	0.10%

inQA

1 / 3

Performance status can be grasped for users who visited during the day, and each indicator can check whether users are distributed according to the performance interval. With this data, you can see performance status on a daily basis.

Thank You.

Expert consultants will be available to answer any detailed questions you may have.

support@imqa.io

Mobile Performance
Monitoring Solution
With IMQA