

E-Commerce Marketplace Mobile App Performance Testing



Performance testing has now become critical for mobile applications. Suppose an application goes live without being tested for performance. The end-user may face slow responses, low speed, less stability, scalability and reliability, and resource usage under workload issues. Performance testing helps mitigate such problems in production by thoroughly testing the application.

The Challenges

The Client doesn't have a proper QA process and benchmarking tools and facing several testing challenges that directly impacted the product's speed, accuracy, stability and quality.

- Average and maximum response time
- Error rate/App Crashes
- The highest volume of request
- Blank screen time during a user session
- Loading animations time during a user session
- The time it takes to load applications fully
- Screen Rendering (Wide Range of Screen Sizes)
- Device configuration (RAM, Battery, CPU, GPU)
- Mobile Network Issues (3G, 4G, Wi-Fi)

Quarks Solution

- Load testing with multiple users.
- Sluggish test (Frame rendering time).
- App start-up time (Cold, Warm, Hot) Test.
- Memory consumption (RAM and CPU usage) Test.
- Network/API Test (App performance in 3G, 4G and Wi-Fi networks.)
- Current/Battery consumption Test.
- Comparison with competitor apps for benchmarking.
- App performance in different device configurations like high End (6+ GB RAM), mid End (4 GB RAM), low End (2 GB RAM).

The Benefits

Quarks innovative solutions helped:

- Low crash rate.
- Faster response time.
- Less memory and battery consumption.
- App uses less storage after installation.
- Consistent performance across all the network conditions.
- No sluggish faster page rendering.



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