

Test Plan of Automated Stress Testing for Party One App

Objectives:

Evaluate app performance under extreme loads. Identify and address performance bottlenecks.
Assess scalability and system stability.

Goals:

Achieve high user load simulation.
Maintain acceptable response times.
Ensure app stability under stress conditions.

Resources:

QA Team

Testing Tool: JMeter

Test Environment Setup

Server Types: Web services REST API

Test Scenarios:

Identify the approximate maximum number of concurrent requests can be handled by the server

Test Execution:

Execute the stress testing starting from 100% capacity of the server.
Followed by 10% increases in each test run, ex: 110%,120%, 130% etc.,

Monitoring and Reporting

Real-time Monitoring

Continuously monitor the server's performance and be prepared to address any severe performance issues or errors as they arise.

Data Collection

Capture and record test data, including logs, screenshots, and performance metrics.

Ensure data is organized and accessible for analysis.

Performance Metrics Analysis

Analyze collected performance metrics, including response times, error rates, and resource utilization.

Identify any bottlenecks or issues affecting the server's performance.

Issue Identification

Document and prioritize performance bottlenecks or issues based on severity and impact.

Categorize issues for resolution.

Test Completion and Reporting

Test Completion

Conclude load testing when all test scenarios have been executed, and objectives have been met.

Ensure all identified issues have been addressed.

Test Report Preparation

Prepare a comprehensive test report summarizing the entire load testing process, findings, and observations.