Test Plan of Automated Load Testing for Party One App

Objectives

Evaluate the performance of the app under high load conditions to ensure it can handle peak usage while maintaining a smooth and responsive user experience Specify the performance metrics and criteria for success.

Goals

Determine if the app can handle a significant increase in users and booking requests without disruptions while handling multiple booking requests simultaneously.

Ensure that critical user actions have quick response times, even during peak usage.

Identify and rectify any performance bottlenecks or issues that may impact user experience during high traffic.

Continuously monitor server resources to meet performance standards.

Test Scenarios

Identify a set of test scenarios with common user interactions with the app. Determine the distribution of user actions and interactions across the 40 users.

The list of test scenarios can be found in the test scenarios template.

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 load testing gradually starting from 25% capacity of the server.

Followed by 50%, 75% and 100% of the total capacity that the server can handle.

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.