





Client Overview

Game developer of strategy genre of games in the industry



Business Requirements

- Mobile game with strategy themes in building cities, farming using tools and completing levels progressively
- Stress Test the application for 10000 userbase
- Conduct Performance Tests for User Engagement metrics
- Monitor app stability and resource drain through the game assets while performing stress tests on concurrent user access
- Verify and validate Game launch and pick up speeds, response times during Game Play
- Simulate real scenarios and generate Test Results with performance optimizing recommendations



Our Solutions

- Analyzed the Game Play with all elements and level complexity to identify test entry points for conducting performance tests
- Test Coverage Index: Created a Performance metrics list with possible Game
 User Engagement weak links (for instance: Game launch response time, mobile
 resource usage, game interrupt scenarios due to device interferences, network
 performance etc.)
- Custom Test Approach to simulate user load in tolerant stress levels tests in progressive load sprints with 100, 250, 500 10000 users
- Generated virtual load using AWS cloud and Jmeter test scripts to monitor response times, record timestamps for Game crash incidents, system dynamics / memory utilization monitoring
- Reported recurring deadlock issues after 4 levels of Game Play
- Reported frequent Page Relaod requests on Launch and sustained low performance through first levels



- AWS Cloud (Virtual Load Generation)
- JMeter, JIRA (Defect Management)



- QA for Performance Compliance as well as User Engagement focused approach
- Detailed Test Artefacts with Root-cause matrix and Recommendations to Performance Issues
- Achieved industry standard response times for Game Launch:< 2 Seconds and Zero crash incident reported



USA

Cupertino | Princeton
Toll-free: +1-888-207-5969

INDIA

Chennai | Bengaluru | Mumbai | Hyderabad Toll-free: 1800-123-1191 **SINGAPORE**

Singapore Ph: +65 6812 7888 UK

London Ph: +44 1420 300014

© 2022 iXie Gaming www.ixiegaming.com | info@ixiegaming.com