

Shift Left: Implementing Performance Testing

Enhancing Performance with a "Shift Left" approach.

Shift Left: Introduction

- Shift Left - Performance Testing.
- Focus on minimising:
 - Bugs
 - Defects
 - Other potential issues.
- The broader objectives:
 - Reducing overall project costs
 - Enhancing the end-user experience
 - Improving product quality and reliability
 - Expediting time to market.

How did we get here?

- Why is there no pre-defined release cycle or schedule for the application being built?
- Why has Performance Testing only been conducted on demand and at such a late stage in the development process?
- What are the types of performance issues that've been encountered due to the current approach?
- What are the performance issues that were discovered late in the process, and what steps, if any, have been taken to address similar issues?

Creating a Performance Testing Strategy...

- How do we Shift Left our Performance Testing activities?
 - Define SRLC
 - Planning
 - Clear Objectives
 - A Comprehensive Scope
- How can we measure our testing efforts?
 - KPI's
 - Baseline and Target (NFR's)
 - Feedback
 - Cost Efficiency

Introducing Collaborative Testing...

- No "i" in Team!
- The importance of cross-functional collaboration.
 - Sharing Expertise
 - Holistic Understanding
 - Team-Based KPI's
 - Effective Communication
 - Collaborative Scenario Design

Implement CI/CD and Automation

- What are the advantages of automation in this context?
 - Automation Tools
 - Consistency (no human errors)
 - Frequent Testing
 - Immediate feedback (metrics) and Regression Testing etc.
 - Cost Effective
- What types of tests can we automate?
 - Load
 - Stress
 - Smoke

In Conclusion...

- My proposal for the team to implement Shift Left is as follows:
 - Testing Strategy
 - Thorough planning with clear and concise objectives
 - Collaborative Testing
 - Holistic understanding with clear communication and shared expertise
 - CI/CD - Automation
 - Cost effective frequent and consistent automated testing

Thank You For Listening!