psSchool

Day - 1

PERFORMANCE ENGINEERING CONCEPTS

- Performance Engineering Introduction
- Performance Engineering Road Map
- o Performance Test Life Cycle Vs Performance Engineering Life Cycle
- Performance Engineering Process
- o Architecture design phase in Performance Engineering
- Application Code Optimization in Performance Engineering
- \circ $\,$ Hardware Sizing in Performance Engineering $\,$
- o Common Performance Issues
- Top Java and .NET Performance Problems and Fixes

Day - 2

• .NET PEFORMANCE ENGINEERING

- o Real-Time Performance Problems and Tuning
- .NET Performance Measurement
- o .NET Memory Management
- Understanding the different Garbage Collection modes
- Analyzing Pause times in the .NET GC
- Locking and Synchronization
- Practical Sessions with sample .NET Application

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Day - 5

• CLIENT PERFORMANCE ENGINEERING

- Importance of Front-End performance
- o Common Performance Problems at the Front-End
- How browser rendering works
- Critical performance metrics at the Front-End
- Chrome Dev Tools
- GTMETRIX, LIGHTHOUSE, WEBPAGE TEST
- Minify the CSS and JS
- o JavaScript Performance Analysis and Image Compression
- Performance Engineering Best Practices