**Performance Test SLA for myRetail Web Application:**

Considering the fact that myRetail web application will carry 100,000 different products and 1000 stores across the United States. Following will be the assumption to derive the performance SLA and approach for myRetails web application.

**Performance SLA:**

* Transaction Response time should be 10 seconds
* Peak Load should be about 3000 users per hour
* Non peak load should be about 1500 user per hour
* Maximum tolerance allowed on CPU and Memory is about 60% on all servers
* SQL transactions must respond in 1 second

**Performance testing Approach:**

* Analysis Phase (Requirement) : Non-functional requirements are identified/defined
* Design Phase : Performance test plan is created that includes all the details about –
  + Application Non-functional requirements
  + Types of Performance test to be executed (Load, Stress, Endurance and Volume)
  + Identify Performance test scenarios
  + Determine Performance Test Environment
  + Plan for Performance test data
  + Tools used for Performance testing
  + Plan dates for Performance testing
  + Identify all the stakeholders –to be part of Performance testing
* Build Phase:
  + Work on Performance Test Scenarios
  + Work on Test Data
  + Work on Test Environment
  + Setup required tools and complete POC
* Testing Phase:
  + Create Performance test scripts
  + Performance testing is executed
  + Analyze Results and share with all stakeholders
  + Open performance related defects if any identified