Magento Performance Testing Strategy

# Objective

To evaluate the performance of https://magento.softwaretestingboard.com/ under different load conditions and ensure its stability and responsiveness.

# Scope

Focus on key user journeys including product browsing, search, add to cart, and checkout.

# Tools

Recommended tools: Apache JMeter, Gatling, or LoadRunner.

# Performance Test Scenarios

1. Load Testing: Simulate multiple concurrent users browsing and shopping.  
2. Stress Testing: Determine the breaking point by gradually increasing user load.  
3. Spike Testing: Introduce sudden spikes in user traffic to assess system behavior.  
4. Endurance Testing: Run tests over an extended period to check memory leaks or degradation.

# Metrics to Monitor

- Response Time  
- Throughput (requests per second)  
- Error Rate  
- Resource Utilization (CPU, Memory, Disk I/O)  
- Concurrent Users

# Expected Outcome

Identify performance bottlenecks, validate scalability, and ensure the application handles expected and peak load conditions without failures.