**System Name:** e-commerce system version1

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**System Description:**

System consist 3 main services: authentication service, product service, cart service.

Only registered customers can choose product and put it in cart.

Project acceptance criteria: the product functionality and performance are as required.

Identification & analysis of risks:

* lack of time
* lack of engineers
* lack of test environment for performance testing
* functional bugs during performance testing
* unavailability of the proper testing tools
* unavailability of database network administrators during the proper test

**Performance Test Objectives**

Intended audience: product owner of e-commerce system, customers, system administrators, content managers

Start time: when all functional test cases are passed and a test environment is provided

Expectations: To achieve the fast system response.

Success criteria of the project: when all KPIs are achieved

**Expected Outputs:**

Results Analysis Report

**KPIs**

Personnel and equipment costs

Deadline

System resource (CPU, Memory, Disk)

Network resource

Downtime of the system

Availability of the system

Quantity of registered customers which system can process

Quantity of products which system can process

Quantity of customers work in the system at the same time

Quantity of processed requests to BD per sec

Average waiting time of page generation with query results

Reliability (failover should be done)

Maximum permissible load during long period of time

Scalability of system in case of growth of products and/or customers

Error rate measurement  
Peak load hours per day

Peak load days per year