

1. Document Profile

ID # 0001

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Recipients - product owner, project manager, business owner

System Name - basic e-commerce portal

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2. System Description

This project is a set of simple services, which partially represent common logic elements of e-commerce systems.

It contains 3 python apps:

- Authentication service - token auth mechanism
- Product service - info of product (all products or by ID)
- Cart service - add product to user cart, view some items and checkout

Project acceptance criteria

- The system can serve up to 300 users for 3 minutes.
- The response time from the system does not exceed 1.2 seconds by 95 percentil

Identification & analysis of risks:

- External risks (network failure, hardware failure)
- Functional bugs during performance testing
- Resource limit (time and engineers)
- Absence of test environment for performance testing

3. Performance Test Objectives

Audience:

- business owner
- product owner
- project manager
- developers
- QA engineers
- other managers
- users

Starting of performance testing: all functional test cases are passed and a test environment is provided.

Success criteria of the project: all KPIs are achieved.

4. Expected Outputs

Results Analysis Report contains test results in table as well as graph formats.

5. KPIs

Response time with middle load (according to current operations profile): from the system does not exceed 1.2 seconds by 95 percentil

Throughput:

- Open Home Page – 300 users for 3 minutes
- View All products – 500 users for 3 minutes
- View Product Details – 650 users for 3 minutes
- Add Product to cart – 300 users for 3 minutes
- View Cart – 120 users for 3 minutes
- Checkout - 70

