# Testing Strategy

## Document Profile

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Recipients - For Business and product owners, project manager

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***System Description***

E-commerce project divided into 3 logical parts:

* [Authentication service - for getting token. Request to all other services without token would fail](https://github.com/andrewsezko/ab-soft-performance-101/tree/master/perf_mock" \l "authentication-service)
* [Product service - for choosing product](https://github.com/andrewsezko/ab-soft-performance-101/tree/master/perf_mock" \l "product-service)
* Cart service - for putting products into the cart

***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

***Risks***

* Risk of network failure.
* Risk of hardware failure.
* Risk of performance degradation due to functional issues.

***Audience***

* stakeholders
* developers
* QA engineers

***Success criteria of the project***

* Performance of project met defined criteria.
* Expected Outputs
* High-level test report containing graphics and table of test results as well as advises to increase performance and meet KPI in time.

***KPI***

* Response time - max 0.8 sec (including max slowdown time of 0.5 sec)
* Throughput - must be defined by business owner.
* Max throughput - Throughput \* multiplier. Multiplier must be defined according to market research of peak time purchases/page views and user behavior.

***Reliability measurements***

* Downtime -TBD
* Availability — TBD
* Error rate - TBD