DISQO TASK TEST PLAN

DT-MTP-1.0

Contents

[1. References 2](#_Toc75518420)

[2. Introduction 2](#_Toc75518421)

[3. Test Items 2](#_Toc75518422)

[4. Software risk issues 3](#_Toc75518423)

[5. Features to be tested 3](#_Toc75518424)

[6. Features not to be tested 3](#_Toc75518425)

[7. Approach 3](#_Toc75518426)

[7.1. Testing Levels 3](#_Toc75518427)

[7.2. Configuration management 4](#_Toc75518428)

[7.3. Test Tools 4](#_Toc75518429)

[7.4. Meetings 4](#_Toc75518430)

[7.5. Measures and metrics 4](#_Toc75518431)

[7.6. Test team will collect below metrics: 4](#_Toc75518432)

[8. Item pass/wail criteria 5](#_Toc75518433)

[9. Suspension criterion and resumption criterion 5](#_Toc75518434)

[10. Test Deliverables 5](#_Toc75518435)

[11. Remaining test tasks 5](#_Toc75518436)

[12. Environmental needs 5](#_Toc75518437)

[13. Staffing and training needs 6](#_Toc75518438)

[14. Responsibilities 6](#_Toc75518439)

[15. Schedule 6](#_Toc75518440)

[16. Planning risks and contingencies 6](#_Toc75518441)

[17. Approvals 6](#_Toc75518442)

# References

* Project architecture diagram
* Etc...

# Introduction

This project master test plan defines testing activities required for the project.

Main test automation activities will include creation of listed below automated tests:

* Unit
* Integration
* API
* ETL (DB)
* Functional
* Load
* Security

# Test Items

* User microservice
* User DB
* Data processing jobs
* Data lake

# Software risk issues

* Only one automation QA on the project
* Missing Staging environment for Load testing
* Short dead line
* Governmental personal data regulations
* Etc…

# Features to be tested

* User microservice endpoints
* User DB integrity
* Data processing jobs

# Features not to be tested

Due to short dead line features below will not be included in testing scope.

* Data lake integrity
* Application performance
* Security aspects

# Approach

## 7.1. Testing Levels

* Unit
* Integration
* API
* E2E

## 7.2. Configuration management

Bitbucket source control system will be used.

## 7.3. Test Tools

Custom Java + TestNG + RESTAssured + JDBC test automation framework for API and DB tests.

JMeter for load tests.

## 7.4. Meetings

Mouthy test activity review meeting to identify below testing aspects:

* Current automation progress,
* What need to be added/removed to automation scope,
* Ratio of manual testing/automation on the project,
* New priorities,
* Etc…

## 7.5. Measures and metrics

Dev team will collect following data regarding unit and integration testing:

* Defects by modules and priority,
* Defects root cause,
* Time spends on fixing.

## 7.6. Test team will collect below metrics:

* Defects by modules and priority,
* Defects root cause,
* Time spend on identification and root cause analysis,
* Defects passed low level of tests.

# Item pass/wail criteria

Users was able to import their data and all imported data is properly settled Data lake.

# Suspension criterion and resumption criterion

* Dramatical changes in project architecture

This will require redesign of testing strategy because current testing tools will not be able to fulfill new testing requirements.

# 10. Test Deliverables

Automated test plans

Defect reports

Test logs

# Remaining test tasks

|  |  |  |
| --- | --- | --- |
| Task | Responsible | Status |
| Load testing | QA |  |
| Etc… |  |  |

# Environmental needs

* QA environment for automation
* UAT for acceptance testing
* Staging for load testing

# Staffing and training needs

Security testing trainings are required.

# Responsibilities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Responsibility | QA | Dev | PM | Client |
| Unit testing |  | + |  |  |
| Integration | + | + |  |  |
| API |  | + |  |  |
| Etc… |  |  |  |  |

# Schedule

1. Requirements review
2. Testing documentation preparation
3. System design review
4. Automation tools selection
5. Automated tests creation + Manual testing
6. Load testing
7. Security testing

# Planning risks and contingencies

* Only one QA

Some QA activities like automated regression can be handled by dev team.

# Approvals

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