Upstox Private Ltd.

Analytical Server "OHLC"
Test plan

Version 1.0

Revision History

Date	Version	Description	Author
05.10.2019	1.0	Create	Mhoian Roman

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Test Plan

1. Introduction

1.1 Purpose

The purpose of the given Test Plan is the testing description of the Analytical Server "OHLC". The document helps to get a better understanding about the sheduled work of a testing project.

1.2 Background

Project - is an Analytical Server "OHLC" (Open/High/Low/Close) time series based on the 'Trades' input dataset, where data on trading on the exchange between users is transmitted, and constructs 'BAR' chart data, based on timestamp TS2.

1.3 Scope

The goal of testing the Analytical Server "OHLC" is the thorough verification of all the features.

The final result of the testing process will be the following documents:

- the report about testing results;
- documented bugs in the client`s bug trecking system.

2. Requirements for Test

Project is to be an Analytical Server "OHLC" which gives the opportunity to get information about trades; it is also to give the opportunity to constructs 'BAR' chart data, based on timestamp TS2

3. Test Strategy

As a result of the first testing cycle, where the functional tests take place, there will be some corrections and additions made and put into the Test Plan. The first cycle will give the definite understanding about the system stability and will help to define the necessary test suite which will be executed shortly. Such method will give the opportunity to get detailed report about the product and will attract the attention towards weak spots.

All the bugs found will be added to the tracker for further corrections and fixes.

There are three stages of testing are planned:

- the first stage – analysis, Test Plan creation, partial fulfillment of functional tests;
- the second stage will be devoted to the detailed fulfillment of integration test uncovering and describing the bugs;
- the third stage is fixed bugs check and Regression testing fulfillment.

Such kind of testing system allows fulfillinf detailed testing and preventing, fixing bugs on early stages.

OS:

- Linux.

3.1 Testing Types

3.1.1 Unit Testing

Participants: software development department.

Process: Test-driven development (**TDD**).

3.1.2 Integration Testing

Functional errors detection via functional tests fulfillment.
Participants: software development department and testing department.

Process Description:

Interaction between workers:

- Compute OHLC packets;
- Get client list;
- Subscribe;
- Get BAR OHLC data.

3.1.3 Regression Testing

Purpose:

To check the changes which made in the project in order to make sure that there are no bugs in the new version in the parts where testing had already been made.

3.2 Tools

The following tools will be employed for this project:

	Tool	Version
Tool for unit testing	- Akka TestKit	2.6.0
Tool for integration trsting	- nv-websocket-client - Akka TestKit - AssertJ Fluent Assertions	2.9 2.6.0 3.13.2
Defect Tracking	- Jira	7.5.2

4. Final Results

4.1. Conclusion

The final result is a documented final result of testing process with the bug description and also with some recommendations and suggestions for further improvement of the given product.