Matsuri Candidate Take Home Project

# Description

A number of vendors provide price information for traded instruments; a traded instrument will have different prices from different vendors. Price data from each vendor is to be cached in a local data store and then distributed to interested downstream systems. The cache will have services to allow clients to publish and retrieve data from the store. Clients are interested in getting all prices from a particular vendor or prices for a single instrument from various vendors. Prices older than 30 days must be removed from the cache.

The task is to design and implement such service. Your solution must include the following:

1. Document the design using sequence diagrams, explaining choices made to arrive at the solution
2. Document the domain model for persisted objects using appropriate diagrams
3. Document the implementation explaining any design patterns – simple in-memory maps can be used to persist the objects, although this should be easy to change to allow a different persistence implementation i.e. database.
4. All implemented classes must be unit tested
5. Document any problems encountered and how they were overcome
6. Optional: provide a demo for implemented API

**Note**

* The task must be submitted within 7 days of receiving assignment.
* Expected estimated effort for this task is 4 - 6 hours.
* Candidates are expected to ask as many questions as they can to clarify requirements. Ask the Matsuri development team directly via email using the following email addresses :-

[Jonathan.Graham@uk.mizuho-sc.com](mailto:Jonathan.Graham@uk.mizuho-sc.com)

Candidates must make sure that ALL email addresses above are copied in - this way one of the team members can respond quickly also to cover/support during the weekend.