Stock Market Tracker Architecture

Stock Market Tracker
[System]

«container»
Spring Boot API
[Ingests data, stores raw data in MongoDB]

Java, Spring Boot

«person»

User

Views stock data and visualizations

Accesses data,bookmarking stock and visualizations
[HTTP]

Queries data

Receives data

Receive latest data

Queries latest data
[Vantage api]

Stores vantage data
[MongoDB Driver]

Sends notification for bookmark stock
[Publisher]

«container»
Dashboard (Frontend)
[Visualizes stock data]

React, Chart.js

«container»
Vantage Service
[Fetch latest Data]

External API

«container»
MongoDB
[Stores stock data]

Database

«container»
GCP PubSub
[Sends and receive message]

Pub Sub

Receive Published Msg
[Subscriber]

«container»
Notification Service
[Desktop Popup published msg]

Subscriber

1