

# Overview

The application should provide the possibility to import json data from the local files, processing and storing the data into cassandra db. The access to that data should be possible via REST endpoint.

## Functional description

### Source data

The source data files contain Stock Market Data. This information includes Date, Volume, High, Low, and Closing Price for a single company. Files are updated on a daily basis.

### Valuable informations & parsing

Based on the JSON data the application needs to collect the highest, lowest, and closing price for each day and store this information in DB. As far as each new json file contains all historical data the application needs to avoid unnecessary import of data which was processed before. The schedule for the import needs to be configurable in the application properties.

### DB Storage

The Cassandra DB looks most promising for the storage. Quite a high load is assumed from the controller level for read and write operations.

### REST Endpoint

The endpoint should be implemented to access the stock data. Definition:

Method: GET

Input: Date, Company

Output: Stock data

Quite a high load is assumed for the endpoint

### Logging

All application activities should be logged. The application should provide Splunk logging capability to be ready for the production environment.