AccessFintech Backend Test

You are required to write a console application that reads prices of stocks from different sources, stores the lowest price it can find per stock and serves those prices upon request.

Source types:

1. csv files (csv extension)



1. json files (json extension)



1. Urls - Same format as json file. Can be identified as url by the <https://s3.amazonaws.com/test-data-samples/stocks.json> (httpClient)

newtonsoft for json parse

The application receives a list of sources as a parameter and reads them periodically every 20 seconds (sources can be updated externally).

It also needs to implement two public methods that can be called at any time during the life cycle of the application:

GetLowestPrice(string stockName);

GetAllLowestPrices();

Please take into consideration that the list of sources could be quite long, and the application needs to read the prices as efficiently as possible using any available machine resource.

We will test efficiency, design, correctness, and clarity of the application.

Please ask if anything is unclear. The intension is to test your programming skills, not reading skills.

Good luck!