Project Phase 1 - Data Collection Module (Group Task)
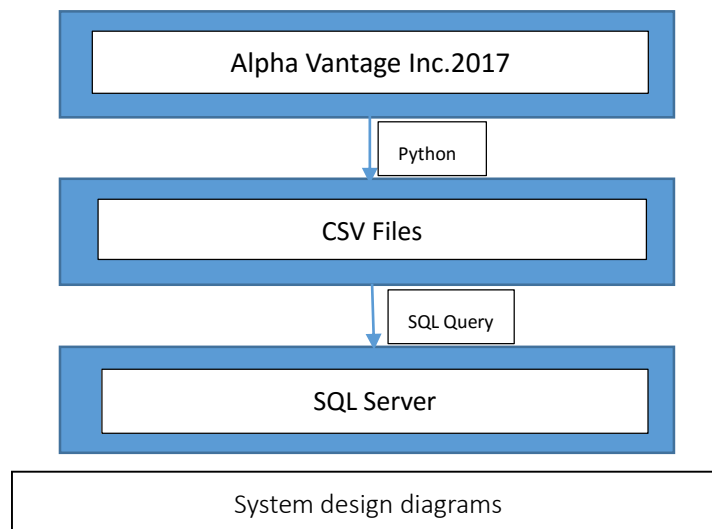
In the project, we are aiming to collect the stock information in database and analyze these. The first stage is collecting the data.

API

According to the requirements, we need to collect intra-daily data and daily data in the stock market. We found an API who provides free stock information is Alpha Vantage Inc.2017. It provides real-time data and historical data.

Design System

In our system, we will acquire our data through Alpha Vantage Inc.2017. After acquiring the data, we will transport into csv files and import to local SQL Server databases.

System design diagrams

Data Format

Sample Data (AAPL):

timestamp	open	high	low	close	volume
2018/3/1 16:00	174.85	175.1	174.8	175	2252809
2018/3/1 15:59	175.19	175.23	174.86	174.86	238706
2018/3/1 15:58	175.37	175.41	175.08	175.1851	218527
2018/3/1 15:57	175.28	175.43	175.1	175.38	126955
2018/3/1 15:56	175.31	175.46	175.2378	175.31	138123
2018/3/1 15:55	175.27	175.32	175	175.31	152540
2018/3/1 15:54	175.27	175.49	175.26	175.28	100345
2018/3/1 15:53	175.27	175.39	175.2	175.27	136908
2018/3/1 15:52	175.36	175.42	175.12	175.27	159357

Contributions

Equal contributions