

Database engine: MongoDB

Database name: ece568

Collections: daily, flag, realtime

daily:

Store the daily history information of stocks

Schema:

Required field: timestamp, symbol, open, high, low, close, volume

timestamp:

type: date

description: The date and time of the record or the start time of the record

note: All date stored in database is using UTC timezone. You may need convert before use it

symbol:

type: string

description: The name of stock

open, high, low, close:

type: decimal128

description: The open, high, low, close price of the stock

volume:

type: int64

description: the volume of the stock

flag:

Store the status of the application

Schema:

Field: init

init:

type: bool

description: true if the application initialized the database

realtime:

Store the real time information of stocks

Schema:

Required field: timestamp, symbol, price, volume

timestamp:

type: date

description: The date and time of the record or the start time of the record

note: All date stored in database is using UTC timezone. You may need convert before use it

symbol:

type: string

description: The name of stock

price:

type: decimal128

description: The real time price of the stock

volume:

type: int64

description: the volume of the stock