openapi: 3.0.0

info:

title: AlphaVantage Market Data API

description: Backend endpoints that fetch stock market data from AlphaVantage and return it to the frontend.

version: 1.0.0

servers:

- url: http://localhost:5000/api

description: Local Development Server

paths:

/market/price/{symbol}:

get:

summary: Get real-time stock price

description: Returns the latest stock price for a given symbol using AlphaVantage GLOBAL\_QUOTE.

parameters:

- name: symbol

in: path

required: true

schema:

type: string

example: AAPL

responses:

"200":

description: Stock price retrieved successfully

content:

application/json:

schema:

type: object

properties:

symbol:

type: string

example: AAPL

price:

type: number

example: 172.35

lastUpdated:

type: string

format: date-time

"500":

description: Failed to fetch from AlphaVantage

/market/candle/{symbol}:

get:

summary: Get intraday candlestick data

description: Returns OHLC (open, high, low, close, volume) data from AlphaVantage TIME\_SERIES\_INTRADAY.

parameters:

- name: symbol

in: path

required: true

schema:

type: string

example: MSFT

- name: interval

in: query

required: false

schema:

type: string

enum: [1min, 5min, 15min, 30min, 60min]

example: 5min

responses:

"200":

description: Candle data retrieved

content:

application/json:

schema:

type: object

properties:

symbol: { type: string, example: MSFT }

interval: { type: string, example: 5min }

candles:

type: array

items:

type: object

properties:

time: { type: string, example: "2025-09-09T14:30:00Z" }

open: { type: number, example: 327.50 }

high: { type: number, example: 328.10 }

low: { type: number, example: 326.80 }

close: { type: number, example: 327.95 }

volume: { type: integer, example: 154000 }

"500":

description: AlphaVantage API error

/market/top-gainers:

get:

summary: Get top gainers

description: Returns a list of top gaining stocks using AlphaVantage Screener endpoint.

responses:

"200":

description: List of top gainers

content:

application/json:

schema:

type: array

items:

type: object

properties:

symbol: { type: string, example: TSLA }

price: { type: number, example: 250.45 }

changePercent: { type: number, example: 5.34 }

"500":

description: Failed to fetch from AlphaVantage

/market/top-losers:

get:

summary: Get top losers

description: Returns a list of top losing stocks.

responses:

"200":

description: List of top losers

content:

application/json:

schema:

type: array

items:

type: object

properties:

symbol: { type: string, example: NVDA }

price: { type: number, example: 460.30 }

changePercent: { type: number, example: -3.21 }

"500":

description: Failed to fetch from AlphaVantage

/market/most-active:

get:

summary: Get most active stocks

description: Returns a list of most traded stocks by volume.

responses:

"200":

description: Most active stocks

content:

application/json:

schema:

type: array

items:

type: object

properties:

symbol: { type: string, example: AAPL }

price: { type: number, example: 172.00 }

volume: { type: integer, example: 85432000 }

"500":

description: Failed to fetch from AlphaVantage