

STOCKFLIX

STREAM THROUGH STOCKS

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TEAM - SNAP

OBJECTIVE

- Develop a real-time stock market monitoring platform that provides investors and traders with access to up-to-date stock market data
- Offer a comprehensive solution for monitoring stock prices, trading volumes and other relevant metrics, enabling users to track stock market trends and make informed investment decisions.



TEMPORAL DATABASE

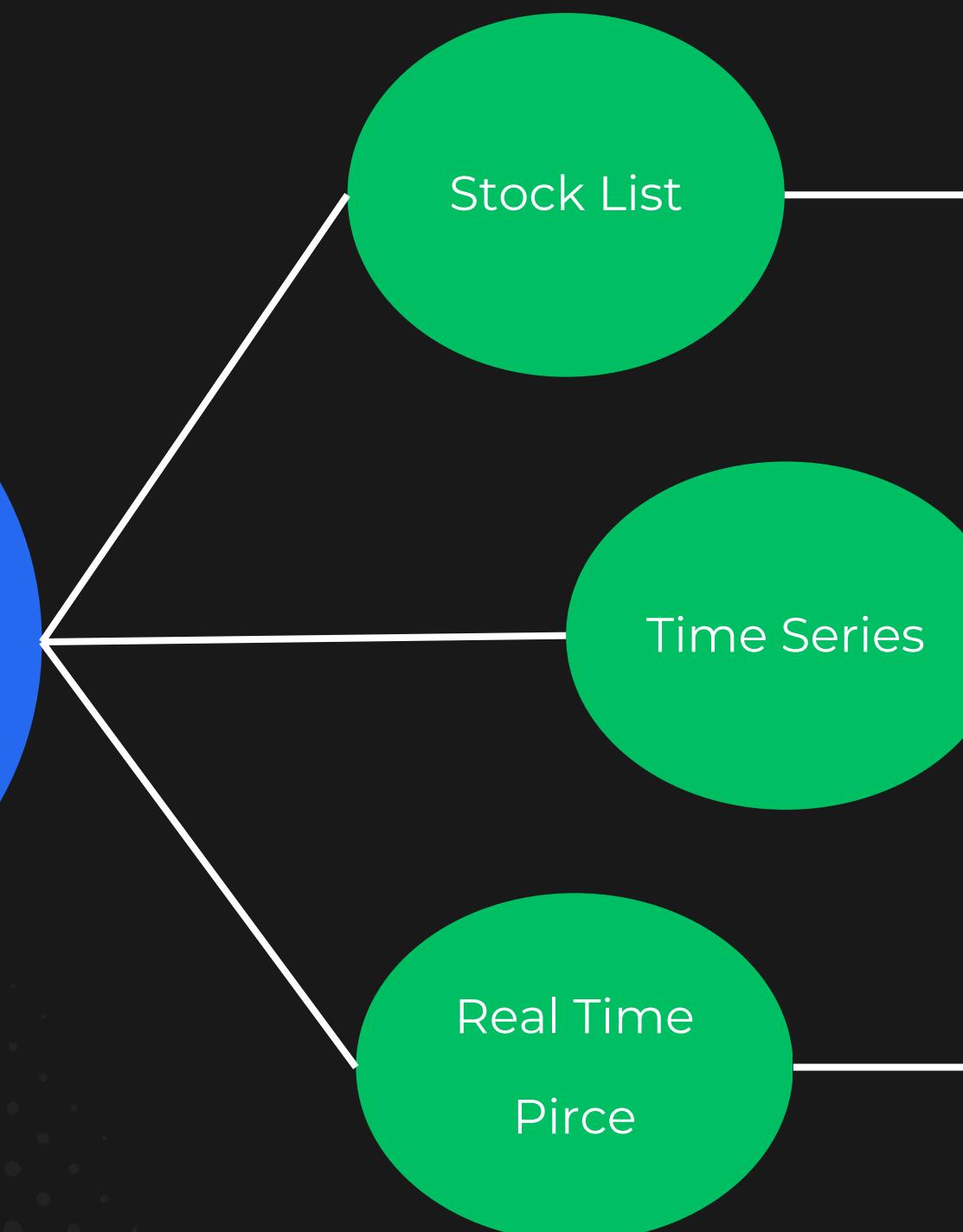


Temporal databases are databases that store and manage data with associated timestamps or validity periods.

Temporal databases typically support temporal operators and versioning, which enable users to query and manipulate time-varying data effectively, making them ideal for applications that deal with temporal aspects, such as stock market data.



:TWELVE DATA



This API call returns an array of symbols available at Twelve Data API, which is Updated daily.

This API returns symbol info (meta) and time-ordered data with Open, High, Low, Close prices, and volume.

This lightweight endpoint allows retrieving only the real-time price of the selected instrument.



• TIMESCALE DB

TimescaleDB is an open-source database designed to make SQL scalable for time-series data. It builds upon PostgreSQL, one of the most advanced open-source relational database systems, and extends it to handle time-series data efficiently.

HYPERTABLE

Automatically partition data based on time, making it easier to manage and query large volumes of time-series data.

TIME BUCKET

Time buckets are used to aggregate data into predefined time intervals, such as 5 minutes, 1 hour, or 3 days.



TOOLS AND TECHNOLOGIES



TIMESCALE DB

An open-source database designed for handling time-series data efficiently



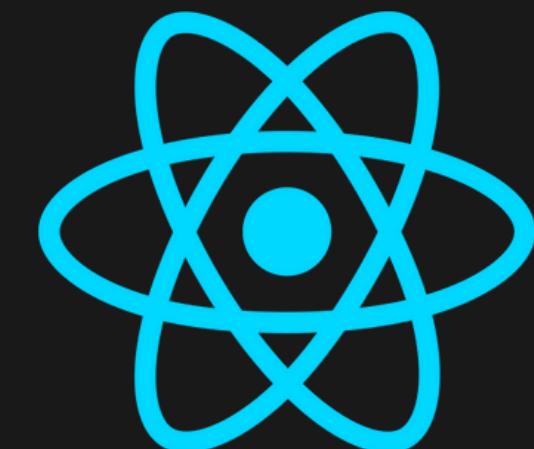
TWELVE DATA

A reliable data source to provide real time stock data of various entities



NODE JS

A Javascript runtime environment for server side applications.



REACT JS

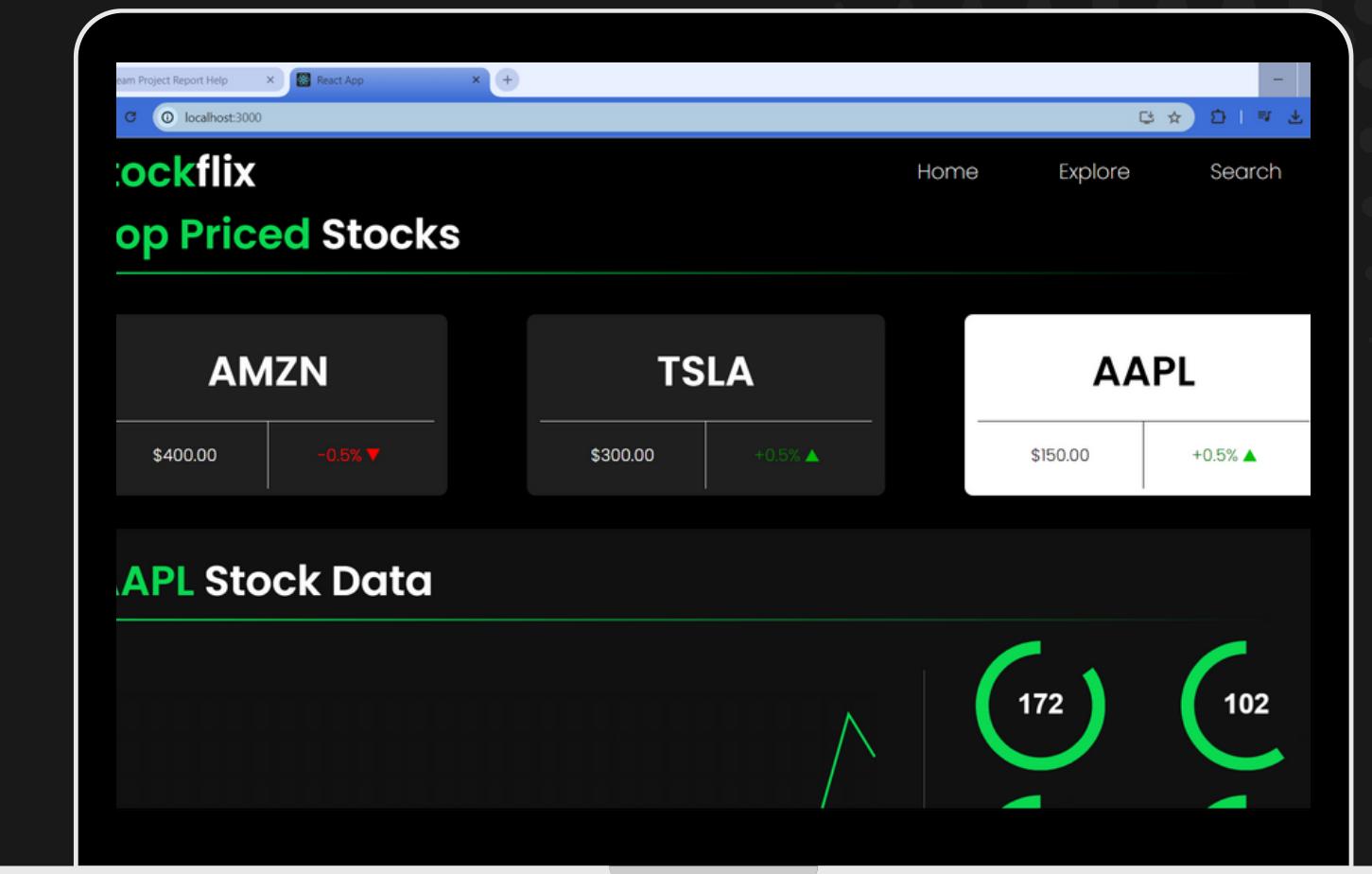
A JavaScript library for building user interfaces.



• HOMEPAGE

TOP STOCKS

Shows information about the top 3 stocks, with one stock selected for detailed display.



INFOGRAPHS OF DATA

Line Graph: Shows the historical price trend of the selected stock.

Info Card: Provides key information about the selected stock, such as current price, volume, etc.

EXPLORE

A screenshot of a web browser window titled "localhost:3000/explore". The page has a dark theme with a light header bar. The header includes the "Stockflix" logo, "Home", "Explore", and "Search" buttons. Below the header is a table with a green header row containing columns for "Company", "Symbol", "Price", "High", "Low", "Open", and "Close". The table lists several stocks, including Apple Inc. (AAPL), Microsoft Corporation (MSFT), Amazon.com, Inc. (AMZN), Alphabet Inc. (Google) (GOOGL), Facebook, Inc. (FB), Tesla, Inc. (TSLA), and Meta Platforms, Inc. (formerly Facebook) (META). At the bottom of the table, there are pagination controls: "Rows per page: 10" and "1-10 of 24". Below the table, a large button labeled "APL Stocks" is visible.

INFOGRAPHS OF DATA

Displaying the data of the selected stock using Candle bars and info card

STOCK TABLE

Contains a table listing all available stocks with their basic information.

A screenshot of a web browser window titled "localhost:3000/explore". The page has a dark theme with a light header bar. The header includes the "Stockflix" logo, "Home", "Explore", and "Search" buttons. Below the header, the title "APL Stocks" is displayed. On the left side of the main area, there is a candlestick chart for Apple (AAPL) from day 1 to 31. The chart shows price fluctuations with green up days and red down days. To the right of the chart is a detailed info card for Apple, titled "APPLE". The card displays the following data:

Metric	Value
Price	\$150
High	\$162
Low	\$104
Open	\$132
Close	\$150

At the bottom of the page, there are links for "Privacy Policy" and "Terms and Conditions", and a copyright notice: "© 2024 All Copyrights Reserved - Stockflix".



SEARCH

SEARCH

Search for a specific stock of interest, by entering it's symbol.

A screenshot of a web browser window titled "localhost:3000/search". The page has a dark theme with a light blue header bar. At the top left is the Stockflix logo. To its right are three navigation links: "Home", "Explore", and "Search". Below the header is a search input field with the placeholder "Enter Your Query" and a green "SEARCH" button. A large, semi-transparent modal window is centered on the page. It features a candlestick chart for the stock "APPLE" from January 1st to March 31st. To the right of the chart is an info card with the following data:

APPLE	
Price:	\$150
High:	\$162
Low:	\$104
Open:	\$132
Close:	\$150

At the bottom of the modal, there are links for "Privacy Policy" and "Terms and Conditions", along with a copyright notice: "© 2024 All Copyrights Reserved - Stockflix".

A screenshot of a web browser window titled "localhost:3000/search". The page has a dark theme with a light blue header bar. At the top left is the Stockflix logo. To its right are three navigation links: "Home", "Explore", and "Search". Below the header is a search input field with the placeholder "Enter Your Query" and a green "SEARCH" button. A large, semi-transparent modal window is centered on the page. It features a background image of two people looking at a large screen displaying financial charts. The text "APL Stocks" is displayed in a green box. At the bottom right of the modal is a green button labeled "APPLE". To the right of the modal, there is a descriptive text block: "Discover stocks like never before with our powerful search functionality! Find the perfect investment opportunities tailored to your preferences, whether it's by company name, ticker symbol, sector, or performance. Start exploring today and unlock the potential of the stock market at your fingertips!"

INFOGRAPHICS OF DATA

Displaying the data of the selected stock using Candle bars and info card





THANK YOU

