



LIVE

SENTIMENTPULSE

By Team Spirit

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Team Member Roles and Responsibilities



Sandhya Reddy Kallem

Frontend developer



***Dhruv Maheshbhai
Ranpariya***

Frontend Developer



Yashwanth Thalla

Backend Developer

Team Member Roles and Responsibilities



Hema Durga Prasad Chittala
Backend Developer



Sravan Kumar Ganji
Machine Learning Engineer

Improvements

- Adding so that
- Changing from points to numbers.

Project Description

Project Name:	SentimentPulse
Team:	Team Spirit
Project Description:	<p>For stock market traders and investors who need to stay informed about stock market news, the SentimentPulse application is a news aggregator and sentiment analysis tool that pulls in stock market news from various sources and analyzes each article's sentiment (positive, negative, or neutral) using AI. Unlike traditional news platforms or manual research, our application allows users to filter news based on sentiment, relevance, and stock symbols, helping them make faster and more informed trading decisions.</p>
Benefit Outcomes:	<p>Faster decision-making by filtering news based on sentiment, relevance, and stock symbols.</p> <p>Improved accuracy in evaluating stock market news with AI-driven sentiment analysis.</p> <p>Time savings by centralizing stock market news from various sources.</p>
Github Link:	https://github.com/htmw/2024F-Team-Spirit/wiki

Team Agreement

Team Agreement

1. Meetings:

- The team will meet regularly every Wednesday and Thursday at 7:00 PM. These meetings will serve as checkpoints to review progress, discuss challenges, and plan upcoming tasks.
- The attendance of all team members will be expected to ensure that there is alignment and effective communication regarding the status of the projects.

2. Communication:

- Slack will be the main communication tool for updates, quick questions, or discussions day in and day out. All team members are expected to be active on Slack, ensuring that responses are issued in a timely manner.
- GitHub will be used for versioning, collaboration, and reviewing code. All pull requests should be reviewed and signed off by at least one other member of the team before being merged into the main branch.

3. Commitment and Deadlines:

- Each member is responsible for completion of tasks assigned to him/her within the time agreed on for its delivery. This helps the team stay right on schedule in the delivery of some of the milestones of the project.
- Issues that may be expected unexpectedly should be communicated to team members proactively in advance, and problems solved with necessary help so as not to delay the progress.

4. Work Submission:

- It is expected that in the project code, documentation, and other deliverables, all tasks should be up for review by the team at least 24 hours in advance of the actual deadline. This would have been enough time to do the reviewing and probably some revising.

5. Accountability:

- If any member of the team perceives that he will not be able to deliver a task, he should inform the team no less than 48 hours in advance. This will give the team sufficient room to perform any reassignment of tasks, seek out available help, or adjust priorities as appropriate.
- It is accountability that keeps up the trust and efficiency within the team.

6. Collaboration:

- Where any of the team members happen to finish earlier than planned, he or she is supposed to help others in case some of the colleagues have more difficult work or for any reason appear to fall behind. In this way, collaboration and mutual support will be assured to provide success to the whole project.
- Feedback is allowed, and knowledge is shared in the project continuously, helping each member to improve and grow.

7. Conflict Resolution:

- Any disputes and issues arising within the team should be discussed openly and resolved on a professional note.
- The team will first try to resolve conflicts in-house by openly discussing issues. If it cannot be resolved in-house, then the team can seek outside mediation or the Professor.
- Conflicts should be treated with respect, and every opinion of the team members matters.

8. Decision-Making Process:

- All decisions-technological the project will be made jointly.
- Decisions on major issues shall be discussed among the members in such a way that due consideration is given to all members having an opportunity to be heard. When no consensus is reached, it may be put to a majority vote.
- This would be left to the discretion of the team lead or designated representative in the event of a tie.

9. Roles and Responsibilities:

- Each team member will be assigned particular roles to perform, which are allocated in accordance with his or her skill and interest in general. Clearly defined roles ensure common understanding of the responsibility that everyone has in effectively contributing.
- While individual tasks will be assigned, the team will be flexible so each member can help another whenever the need arises.

Team Members:

- Sandhya Reddy Kallem
- Dhruv Maheshbhai Ranpariya
- Yashwanth Thalla
- Hema Durga Prasad Chitala
- Sravan Kumar Ganji

Rajesh Verma (India)



- **Age:** 35
- **Occupation:** Software Engineer
- **Experience with Investing:** 5 years
- **Location:** Bengaluru, India
- **Investment Strategy:** Focuses on Indian stocks with occasional investments in U.S. tech stocks. Primarily uses fundamental analysis and financial news.
- **Challenges:** Rajesh's demanding job leaves him with limited time to monitor markets, especially given his tech-heavy portfolio. He's overwhelmed by the volume of news and struggles to quickly filter relevant insights, often missing timely opportunities.
- **Goal:** To make faster, data-driven stock decisions using an AI tool that highlights relevant updates and fits his busy schedule.

Elsa Thompson (United States)



Age: 28

Occupation: Financial Analyst

Experience with Investing: 7 years

Location: New York, USA

- **Investment Strategy:** Tracks energy and healthcare sectors, relying on research and sentiment data.
- **Challenges:** Sorting through large volumes of news delays Elsa, leading to occasional missed insights. She finds it difficult to quickly identify sector-specific news that could impact her recommendations.
- **Goal:** To improve her efficiency by using AI to prioritize critical news in her sectors, enabling more timely, insightful recommendations.

Lucas Müller (Germany, Europe)



- **Age:** 45
- **Occupation:** Independent Investor & Trader
- **Experience with Investing:** 15 years
- **Location:** Munich, Germany
- **Investment Strategy:** Trades European and U.S. stocks, relying on global news.
- **Challenges:** The global scope of his portfolio requires Lucas to keep up with a vast range of international events. He wants to reduce emotional trading and leverage AI-driven sentiment analysis to make quicker, objective decisions.
- **Goal:** To use AI to filter impactful global news and provide sentiment insights, helping him trade more confidently and objectively.

Minimum Viable Product

- **News Aggregation**

Fetch and display financial news articles from reputable sources through APIs.

- **Sentiment Analysis**

Analyze the sentiment of each news article (positive, neutral, negative) using a sentiment analysis tool.

- **Company Mention Detection**

Identify and highlight companies referenced in the news articles.

- **User Interface**

Present the news articles, sentiment scores, and impacted companies in a clean, intuitive interface.

Technologies



Backend

Flask, Express JS

Frontend

ReactJS

Database

MongoDB

Machine Learning

PyTorch, Huggingface

API

NewsAPI

Cloud Hosting

GCP

Backend

What is it?

Flask is a lightweight Python web framework, and Express JS is a fast and minimalist web framework for Node.js.



How is it used?

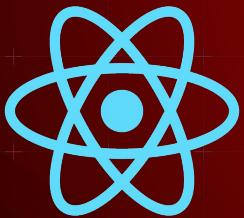
Flask or Express JS will be used to handle backend logic, manage API requests, and serve data between the frontend and the database, enabling communication between the sentiment analysis AI and the stock market news aggregator.

A large, bold, black, sans-serif font where the letters 'e' and 'x' are joined together, forming a single continuous shape. The letter 'e' is on the left, curving upwards and to the right, and the letter 'x' is on the right, extending downwards from the top of the 'e'. The 'x' part has a vertical stem and a diagonal crossbar.

Frontend

What is it?

ReactJS is a popular JavaScript library for building interactive user interfaces.



How is it used?

ReactJS will be used to build the web application's dynamic and responsive frontend, allowing users to interact with the platform, view stock market news, and access AI-driven sentiment insights.

DATABASE

What is it?

MongoDB is a NoSQL database designed for flexibility and scalability, storing data in JSON-like documents.



How is it used?

MongoDB will store news articles, user preferences, and AI-generated sentiment analysis, enabling fast retrieval and updates as new data comes in from the API.

Machine learning

What is it?

PyTorch is a machine learning framework, and Huggingface is a platform that provides pre-trained models and tools for NLP tasks.



How is it used?

PyTorch and Huggingface will be used to develop and deploy sentiment analysis models that process stock market news and classify the sentiment of each article (positive, neutral, or negative).

API

What is it?

NewsAPI is a service that provides access to news articles from various sources around the world.

How is it used?

NewsAPI will be integrated into the backend to pull relevant stock market news articles, which will be processed by the sentiment analysis model before being displayed to users.

Cloud Hosting

What is it?

Google Cloud Platform is a suite of cloud computing services that provides infrastructure for hosting applications.



How is it used?

GCP will host the web application, manage the backend servers, store data, and provide the resources necessary for running the machine learning models and API integrations efficiently.

Algorithm

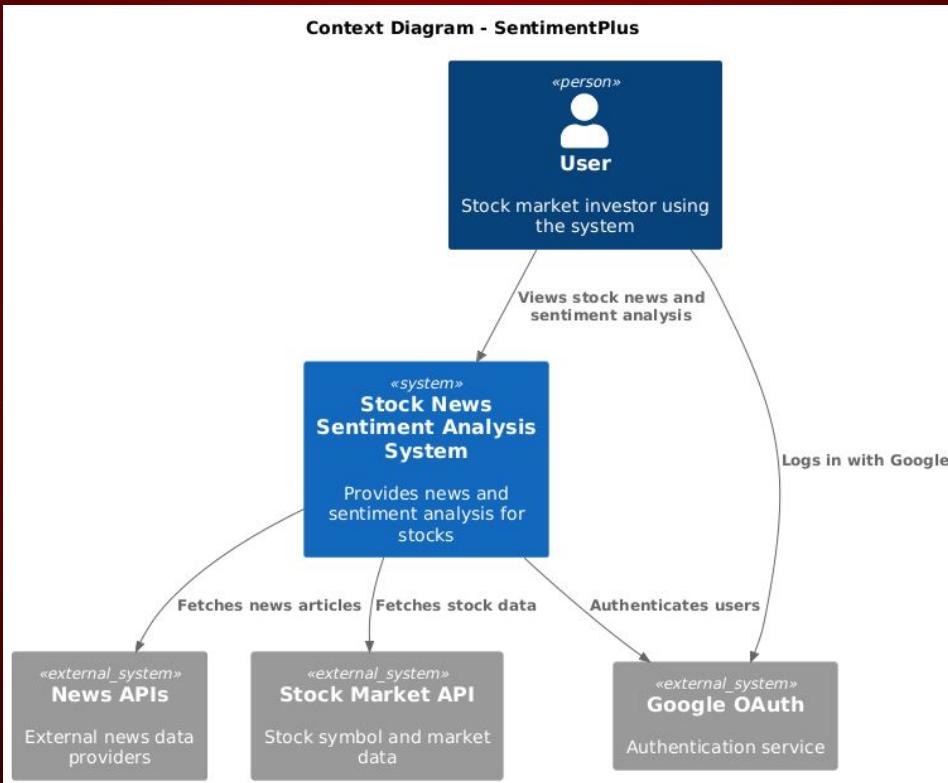
What is BERT?

BERT is an advanced Natural Language Processing (NLP) model developed by Google. It is formulated on the Transformer architecture and is devised to comprehend the context of a word in a sentence by studying it in both directions—left and right from the word—thus, it is very useful for sentiment analysis tasks, for example, understanding the sentiment of the text.

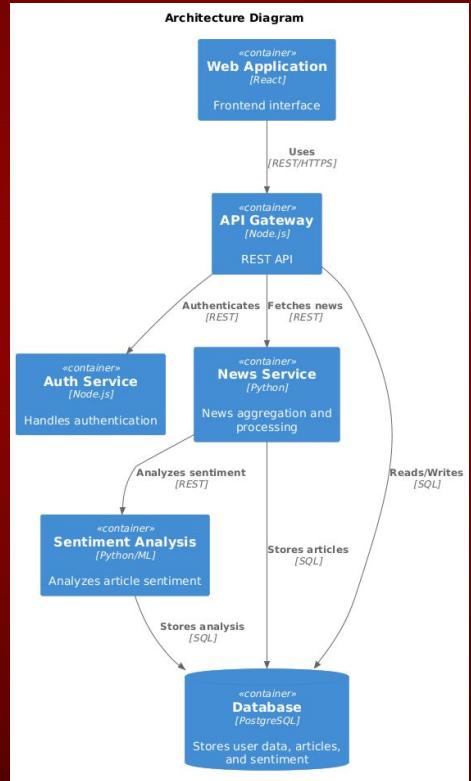
In what way is it applied?

In the context of your project, BERT can be utilized through Huggingface to analyze stock market news articles and perform sentiment analysis. It will monitor the text and determine the sentiment(s) expressed in the news as positive, neutral, or negative. Therefore the technology enabling the categorization of each news piece and, consequently the provision of sentiment insights to the investors that quick assess of how the news may impact the stock performance. BERT's success in learning complex language patterns makes sentiment analysis more precise, which gives a more well-founded recommendation compared to the traditional NLP models.

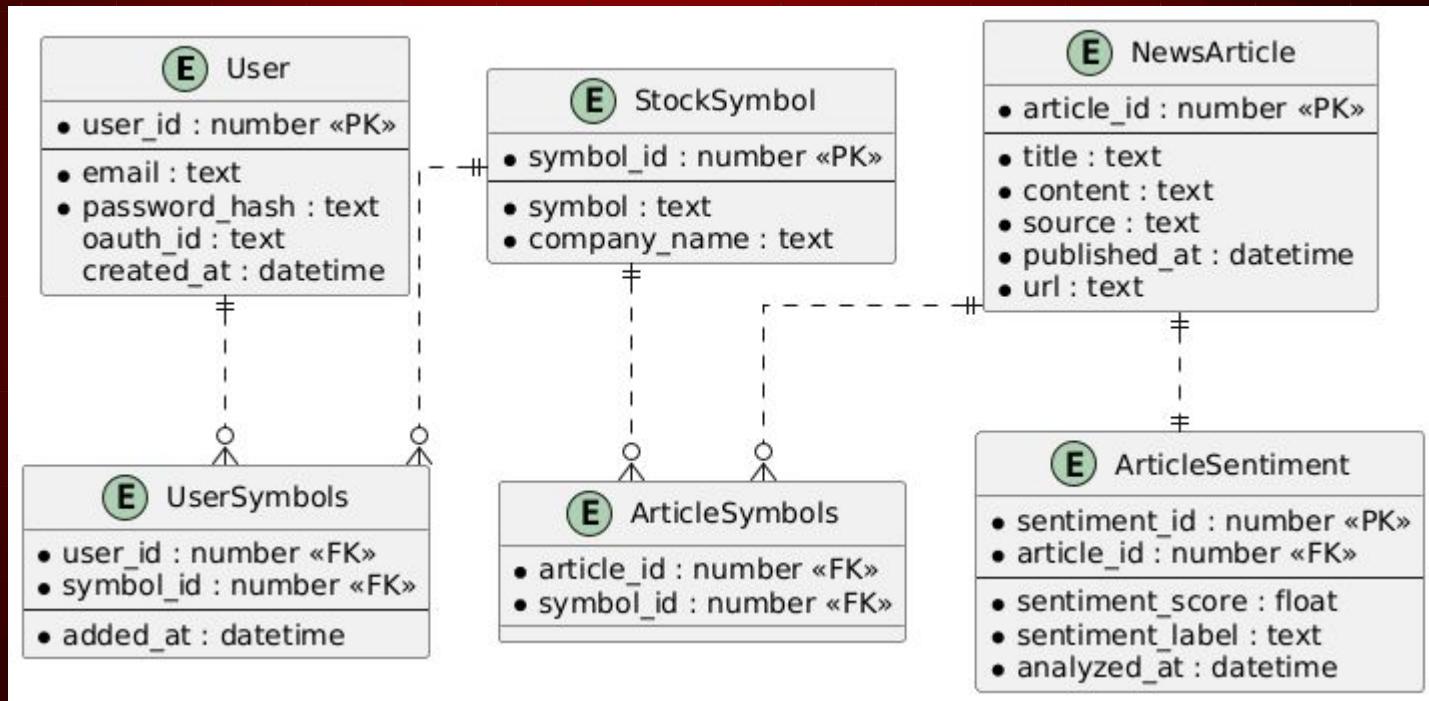
Context Diagram



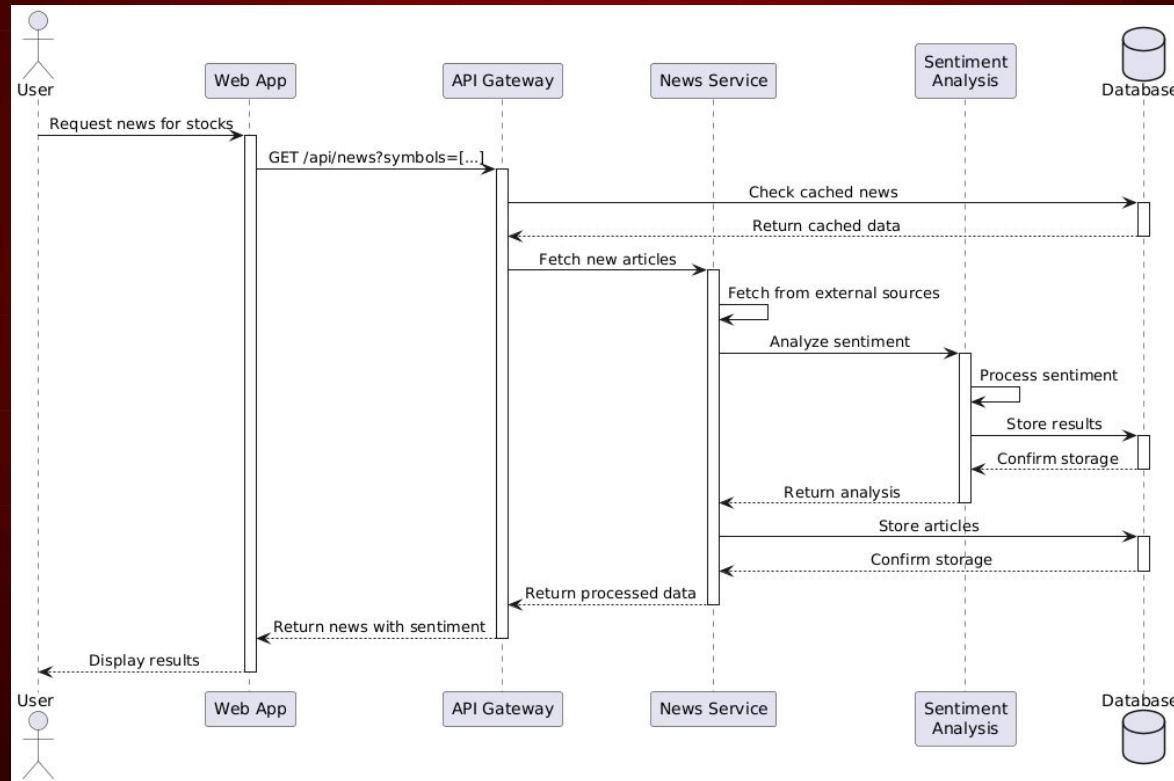
Architecture Diagram



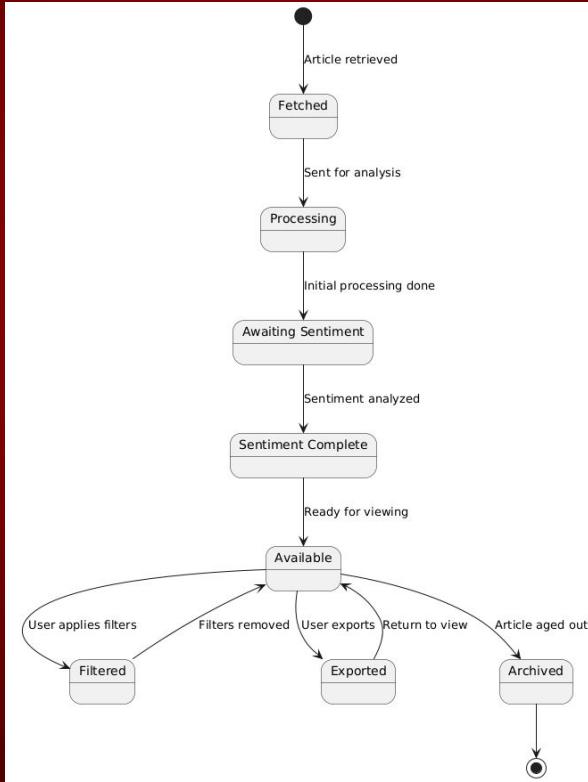
ER Diagram



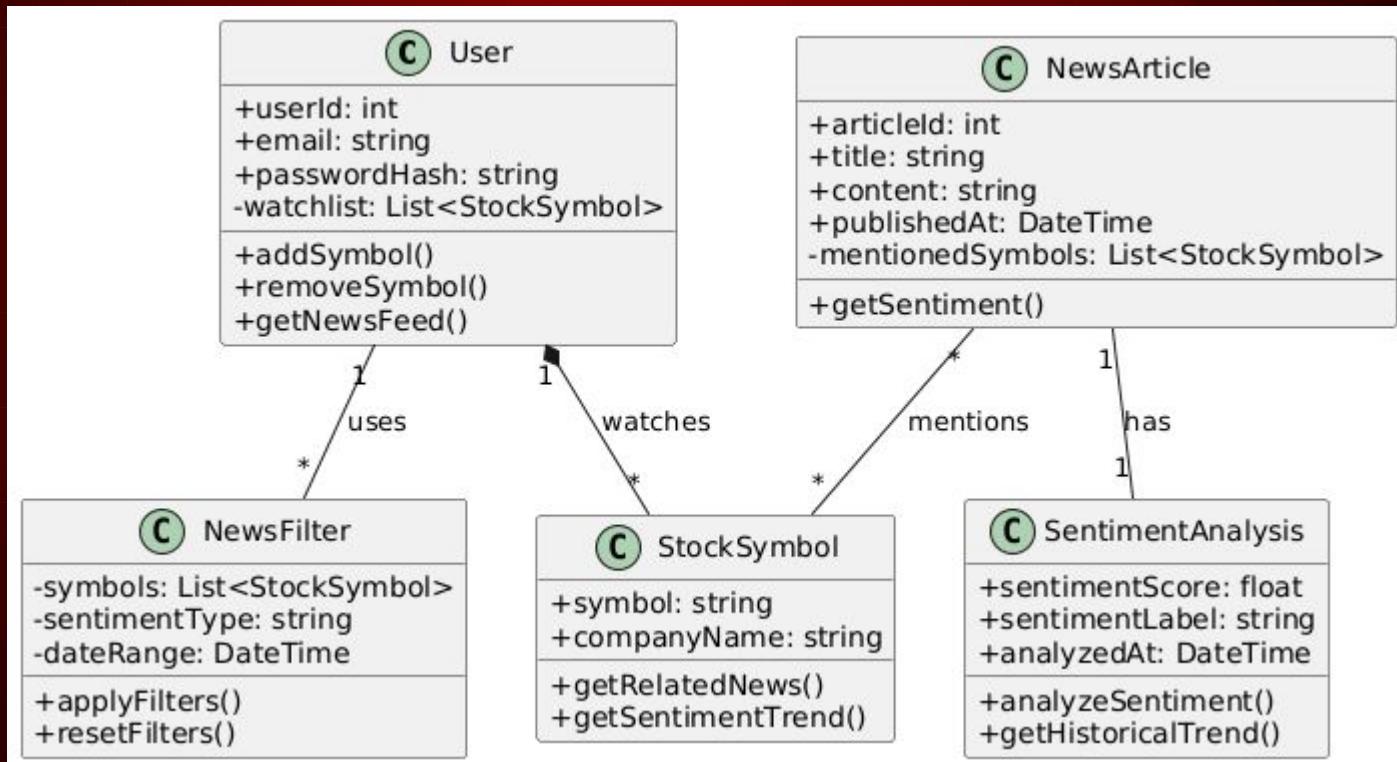
Sequence Diagram



State Diagram



Class Diagram



Product Backlog

ID	Description	Acceptance Criteria	Feature	Story Points
US1	As an investor, I want to input stock symbols of interest so that I can receive relevant news articles.	Users can search and input stock symbols. Stock symbols stored and shown on dashboard.	Stock Symbols	5
US2	As an investor, I want to view a list of news articles related to the stock symbols I've selected so that I can stay informed about relevant updates.	Articles are filtered by stock symbols. News displayed in chronological order.	News Feed	8
US3	As an investor, I want to filter news articles by relevance to my stock symbols so that I can focus on the most important articles.	News ranked by relevance to stock symbols. Filter option for relevant articles only.	News Relevance Filter	5
TT1	Backend developer sets up infrastructure for news aggregation and stock symbol search functionality so that the system can fetch and manage news efficiently.	API fetches news from 3 sources. Backend handles stock searches and storage.	Backend Infrastructure	8
TT2	Database administrator establishes database structure for managing user profiles, stock symbols, and news articles so that user data and preferences are stored effectively.	Create tables for users, symbols, articles. Ensure user-stock preferences are linked.	Database Setup	5

Product Backlog

ID	Description	Acceptance Criteria	Feature	Story Points
US4	As an investor, I want to log in securely so that I can access personalized sentiment analysis features.	Users log in with email/password. Support Google OAuth login.	Authentication	8
US5	As an investor, I want each news article to display a sentiment rating (positive) so that I can gauge its emotional tone.	Sentiment rating visible for each article. Sentiment rating is easy to understand.	Sentiment Analysis	5
US6	As an investor, I want each news article to display a sentiment rating (negative) so that I can gauge its emotional tone.	Sentiment rating visible for each article. Sentiment rating is easy to understand.	Sentiment Analysis	5
US7	As an investor, I want each news article to display a sentiment rating (neutral) so that I can gauge its emotional tone accurately.	Sentiment rating visible for each article. Sentiment rating is easy to understand.	Sentiment Analysis	5
US8	As an investor, I want to filter news articles by sentiment type so that I can focus on specific tones (e.g., positive news).	Filter by positive, negative, neutral. Dynamic UI update when filtering.	Sentiment Filter	5

Product Backlog

ID	Description	Acceptance Criteria	Feature	Story Points
TT3	Developer integrates AI sentiment analysis engine for news articles so that sentiment can be assigned to each article accurately.	AI assigns sentiment to articles. AI achieves 80% accuracy or higher.	Sentiment Analysis Engine	8
TT4	Developer implements user authentication system (login and OAuth) so that users can securely access their accounts.	Implement login with email/password. Add OAuth for social logins.	Authentication	13
TT5	Developer connects backend to sentiment analysis model so that sentiment data is processed in real time.	API connects backend to sentiment model. Ensure real-time sentiment processing.	Backend Integration	3
US9	As an investor, I want to filter articles based on both stock symbols and sentiment so that I can focus on the best insights for my trading decisions.	Apply filters for symbols and sentiment. Filtered news updates in real time.	Combined Filtering	5
US10	As an investor, I want to export sentiment analysis and news data to a CSV file so that I can analyze it offline.	Provide option to export data to CSV. Export includes stock, sentiment, and news.	Data Export	3

Product Backlog

ID	Description	Acceptance Criteria	Feature	Story Points
US11	As an investor, I want to view historical sentiment trends for a particular stock symbol so that I can analyze long-term market sentiment.	Sentiment trends shown graphically. View trends for different time periods.	Historical Trends	8
US12	As an investor, I want to reset all filters easily so that I can return to the full, unfiltered news feed.	Provide a clear option to reset filters. Reset clears all active filters.	Filter Reset	2
TT6	Developer implements historical sentiment tracking and visualization so that users can view sentiment trends over time.	Track and store historical sentiment. Display trends using a graph.	Historical Sentiment Graph	8
TT7	Developer improves frontend performance and responsiveness so that users have a smooth and efficient experience on both mobile and desktop.	Optimize UI for mobile and desktop. Ensure fast filter application.	Frontend Optimization	5

Sprint 3 Backlog

ID	Description	Acceptance Criteria	Feature	Story Points
US9	As an investor, I want to filter articles based on both stock symbols and sentiment so that I can focus on the best insights for my trading decisions.	Apply filters for symbols and sentiment. Filtered news updates in real time.	Combined Filtering	5
US10	As an investor, I want to export sentiment analysis and news data to a CSV file so that I can analyze it offline.	Provide option to export data to CSV. Export includes stock, sentiment, and news.	Data Export	3
US11	As an investor, I want to view historical sentiment trends for a particular stock symbol so that I can analyze long-term market sentiment.	Sentiment trends shown graphically. View trends for different time periods.	Historical Trends	8
US12	As an investor, I want to reset all filters easily so that I can return to the full, unfiltered news feed.	Provide a clear option to reset filters. Reset clears all active filters.	Filter Reset	2
TT6	Developer implements historical sentiment tracking and visualization so that users can view sentiment trends over time.	Track and store historical sentiment. Display trends using a graph.	Historical Sentiment Graph	8

Sprint 3 Backlog

ID	Description	Acceptance Criteria	Feature	Story Points
TT7	Developer improves frontend performance and responsiveness so that users have a smooth and efficient experience on both mobile and desktop.	Optimize UI for mobile and desktop. Ensure fast filter application.	Frontend Optimization	5

Test Cases

Test Case ID	ID	Test Case Description	Expected Result	Actual Result	Pass/Fail
TC1	US9	Verify filtering articles by stock symbols and sentiment.	Articles are filtered based on selected stock symbols and sentiment.	Matches expected	Pass
TC2	US9	Verify real-time update of filtered news.	Filtered news updates are displayed in real time without delay.	Matches expected	Pass
TC3	US10	Verify option to export data to CSV.	Export functionality is available, and CSV includes stock, sentiment, and news details.	Matches expected	Pass
TC4	US11	Verify historical sentiment trends visualization.	Graph displays sentiment trends for selected stock and different time periods.	Matches expected	Pass
TC5	US12	Verify option to reset all filters.	Filters are reset, and the full news feed is displayed.	Matches expected	Pass
TC6	TT6	Verify historical sentiment data tracking and graph.	Historical sentiment data is stored correctly and displayed in the graph.	Matches expected	Pass
TC7	TT7	Verify frontend responsiveness and performance.	UI is responsive for mobile/desktop, and filters are applied quickly.	Matches expected	Pass

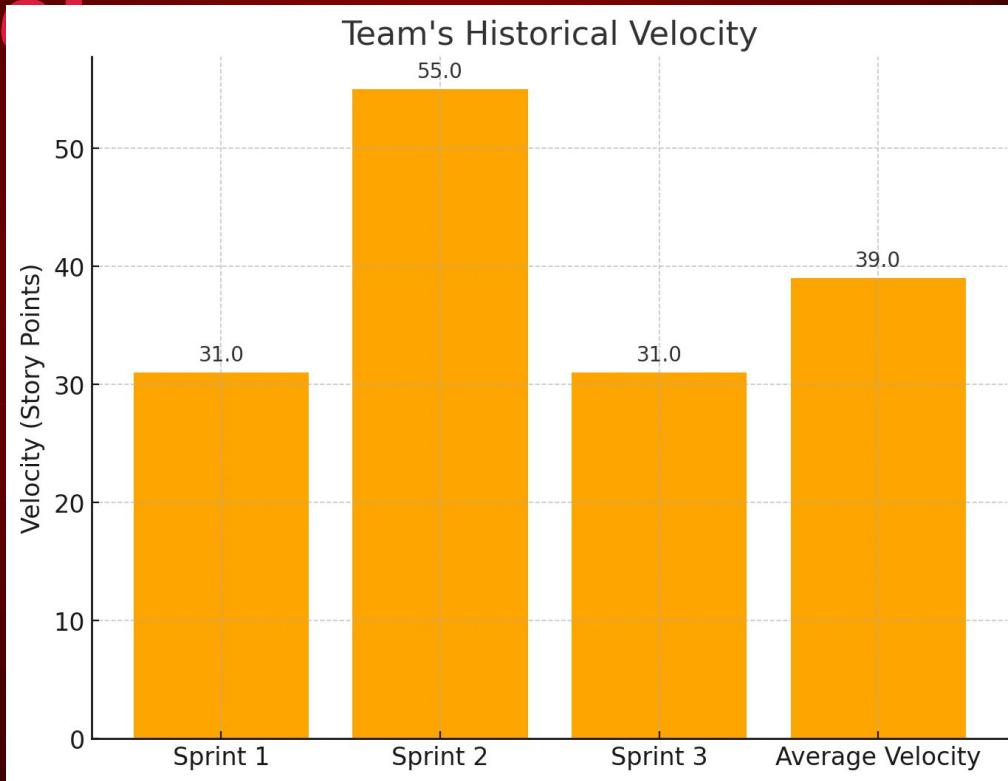
Stories Completed

ID	Feature	Description	Test Case IDs	Story Points
US9	Combined Filtering	Allows filtering of articles based on stock symbols and sentiment.	TC1, TC2	5
US10	Data Export	Provides the option to export news and sentiment analysis to a CSV file.	TC3	3
US11	Historical Trends	Displays historical sentiment trends for selected stock symbols.	TC4	8
US12	Filter Reset	Allows users to reset all filters and view the full news feed.	TC5	2
TT6	Historical Sentiment Graph	Tracks and visualizes historical sentiment data for stock symbols.	TC6	8
TT7	Frontend Optimization	Enhances frontend responsiveness and filter performance.	TC7	5

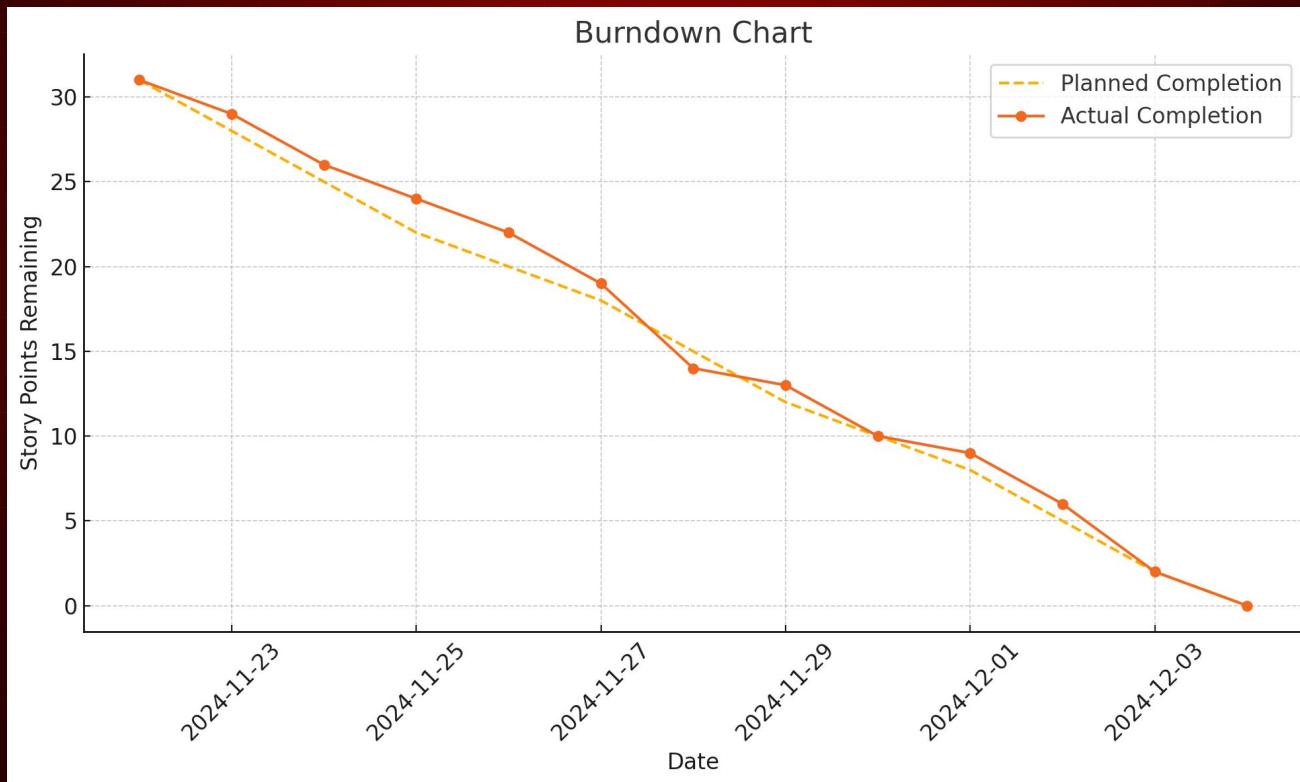
Team Velocity - This Sprint

***Total Story Points Completed:
31 points***

Team's historical velocity (average)



Burndown Chart



Completed/Committed Ratio

- **Completed Story Points:** 31
- **Committed Story Points:** 31

So, the ratio is:

- $31/31=100\%$

Retrospective

sprint-3

What went well

Backend optimization	collaborative development
+ 0	+ 0
Efficient Data Integration	User-Friendly Features
+ 0	+ 0
meeting sprint goals	Stakeholder Engagement
+ 0	+ 0
Improved Chart Interactivity	Time Management
+ 0	+ 0

What can be improved

dynamic data handling	error handling
+ 3	+ 4
testing across platforms	Export File Customization
+ 0	+ 0
Feature Interdependencies	Scalability for Visualizations
+ 1	+ 2
Data Normalization	Memory Constraints
+ 1	+ 0
Stay Engaged in Meetings	Communication and Collaboration
+ 4	+ 4

Action Items

error handling	knowledge sharing
+ 0	+ 0
Improve Task Estimation Accuracy	Enhance Communication and Collaboration
+ 0	+ 0
documentation	close-out-planning
+ 0	+ 0
dynamic data handling	
+ 0	

App Screenshot

The screenshot shows a web application interface for 'MARKET NEWS' at localhost:5173. The top navigation bar includes a search icon, a refresh button, and the URL 'localhost:5173'. On the right are icons for file operations, a VPN toggle, and a three-dot menu. The main header displays 'MARKET NEWS' in bold, the time '16:34:54', the last update '16:34:34', and the user email 'sravan12@gmail.com'. To the right are 'REFRESH' and 'LOGOUT' buttons.

The main content area features a search bar with 'MSFT' and a '+' icon. Below it is a search result for '\$MSFT' with an 'X' icon. To the right are buttons for 'ALL NEWS' (9 ITEMS) and a three-dot menu. Three large cards show sentiment distribution: 'Positive 33.3%' in green, 'Neutral 55.6%' in yellow, and 'Negative 11.1%' in red.

Below this, a news item from 'investing.com' dated 11/12/2024 is displayed. It discusses Google-parent Alphabet hitting a record high after Trump taps Andrew Ferguson as FTC chair. A green button labeled 'POSIITIVE (100%)' is shown next to the link. Another link to the same article is available with a 'MORE' button.

Another news item from 'insidermonkey.com' dated 11/12/2024 discusses Microsoft Corporation (MSFT) as the best quantum computing stock. A yellow button labeled 'NEUTRAL (100%)' is shown next to the link. A third link to the same article is available with a 'MORE' button.

A third news item from 'inside.monkey.com' dated 11/12/2024 discusses Jim Cramer's preference for Eli Lilly (LLY) over Regeneron. A yellow button labeled 'NEUTRAL (100%)' is shown next to the link. A third link to the same article is available with a 'MORE' button.

At the bottom, a news item from 'investing.com' dated 11/12/2024 discusses TD Morgan downgrading PocoPoco and Q3 given market dynamics. A red button labeled 'NEGATIVE (94%)' is shown next to the link.

App Screenshot

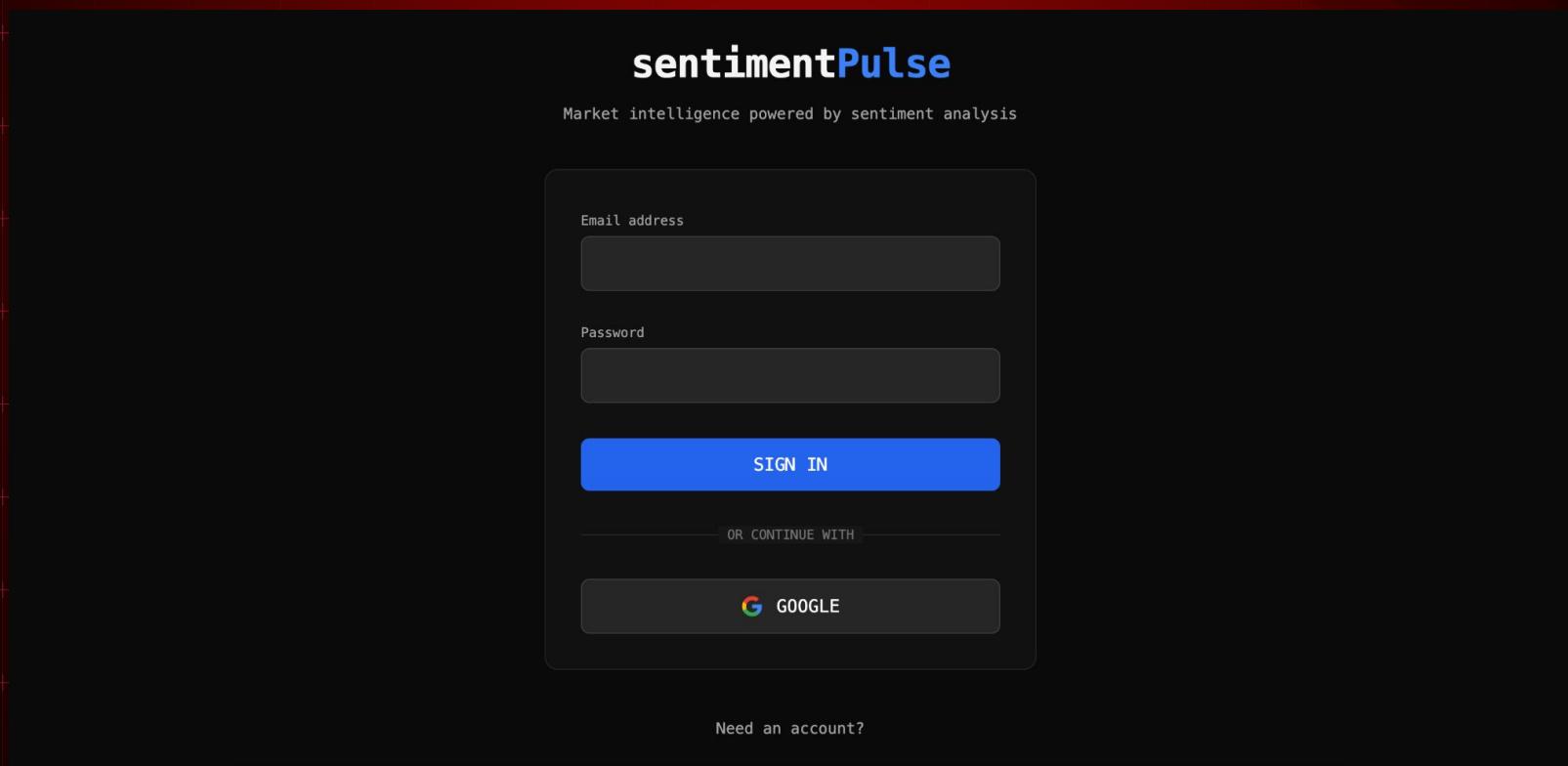
A screenshot of a web application interface titled "MARKET NEWS" displayed in a browser window at `localhost:5173`. The page shows the following details:

- Updated: 16:32:25
- User: sravan12@gmail.com
- Logout button
- Add symbol... input field
- Sentiment distribution:
 - Positive: 11.1%
 - Neutral: 77.8%
 - Negative: 11.1%
- All News: 9 items

The main content area displays news articles with their sources and publication dates:

- seekingalpha.com 11/12/2024**
Chewy announces public offering of Class A common stock by selling stockholder
Chewy announces \$500 million public offering of Class A common stock by selling stockholder, with option for additional \$75 million shares.
MORE ↗
- investopedia.com 11/12/2024**
5 Key Changes to 401(k)s in 2025 and What They Mean for You
The rules for 401(k) plans are undergoing significant changes for 2025. This article explains how you can take full advantage of them.
MORE ↗
- restaurantnews.com 11/12/2024**
Tacodeli Serves Up Authentic Holiday Flavors
Beloved Mexican restaurant brings back Chile en Nogada Taco and brand-exclusive desserts
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- investing.com 11/12/2024**
Agilysys expands board, appoints tech executive Lisa Pope By Investing.com
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App Screenshot



App Screenshot

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Breaking - Nasdaq ends above 20K in historic first after inflation data solidifies Fed rate-cut bets 

Consumer

Chewy announces public offering of Class A common stock by selling stockholder

Dec. 11, 2024 4:15 PM ET | **Chewy, Inc. (CHWY) Stock** | By: Tiyashi Datta, SA News Editor

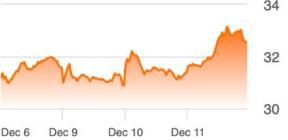
 Play (1min)

- Chewy (NYSE:CHWY) on Wednesday announced the commencement of an underwritten public offering of \$500 million of shares of its

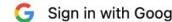
About CHWY Stock

Symbol	Last Price	% Chg
CHWY	32.54	3.73%
Post	31.56	-3.01%

[1D](#) [5D](#) [1M](#) [6M](#) [1Y](#) [5Y](#) [10Y](#) 



Market Cap **\$12.81B**

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or

By creating an account using any of the options above, you agree to the [Terms of Use & Privacy Policy](#)

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API

The screenshot shows the Postman application interface. The top navigation bar includes Home, Workspaces, API Network, Overview, and a search bar. The main workspace is titled "Team Workspace" and contains a collection named "API documentation". A current request is shown for "GET http://localhost:3000/api/news". The request details tab shows the method as "GET" and the URL as "http://localhost:3000/api/news". The "Params" tab is selected, displaying a table with one row for "Query Params". The "Body" tab is also visible. The response pane displays a JSON array of news items. Each item has an "id", "title", "description", "source", "url", "publishedAt", and "relatedSymbols". The first item's description mentions Jonathan Newman appearing on The Lakey Effect. The second item's description discusses European short-term bonds rising after an ECB rate cut. The third item's description discusses CSGP shares declining after disappointing earnings.

```
[{"id": "e9c30555-f9ce-4a2b-afcd-8e3233dcbbfe", "title": "Who Should Voters Trust on the Economy?", "description": "On October 18, 2024, Jonathan Newman appeared on The Lakey Effect with Jimmy Lakey to discuss whether or not voters should trust Trump on the economy. Or,", "source": "mises.org", "url": "https://mises.org/podcasts/individual-interview/who-should-voters-trust-economy", "publishedAt": "2024-10-23T18:38:00.000000Z", "relatedSymbols": []}, {"id": "77623b29-ale1-4d2e-bac6-c00807c511db", "title": "European Short-term Bonds Rise as Traders Bet on ECB Rate Cut", "description": "European short-term bonds have climbed, contrasting with the movements of similar U.S. and UK securities, as traders anticipate a 50 basis point rate cut by the", "source": "gurufocus.com", "url": "https://www.gurufocus.com/news/2563799/european-shortterm-bonds-rise-as-traders-bet-on-ecb-rate-cut", "publishedAt": "2024-10-23T18:30:13.000000Z", "relatedSymbols": []}, {"id": "d0033d72-cb8d-4b01-9cf8-b0583f511c6e", "title": "CSGP Shares Decline After Disappointing Earnings Report", "description": "CoStar Group (CSGP) shares fell by 9.06% after the company released its third-quarter earnings report, which did not meet market expectations. The stock is curi", "source": "gurufocus.com"}]
```

API

The screenshot shows the Postman application interface. The left sidebar displays "Team Workspace" with sections for Collections, Environments, and History. The main workspace shows an "Overview" of a GET request to `http://localhost:3000/api/news?symbols=AAPL,TSLA,AMZN`. The "Params" tab is selected, showing a parameter named "symbols" with the value "AAPL,TSLA,AMZN". The "Body" tab shows the response body in JSON format, which is a list of news articles. The "Test Results" tab indicates a successful response with status 200 OK, time 6.36 s, and size 1.7 KB.

```
[{"id": "66440da2-f217-41b8-9785-d0dbfe2b9983", "title": "Goldman Sachs, Apple fined by CFPB", "description": "Firms' joint foray into consumer finance wasn't ready, regulator alleges", "source": "advisor.ca", "url": "https://www.advisor.ca/industry-news/regulation/goldman-sachs-apple-fined-by-cfpb/", "publishedAt": "2024-10-23T18:02:09.000000Z", "relatedSymbols": ["AAPL"]}, {"id": "dbd43f12b-3939-4613-98f1-6293779502ab", "title": "Apple Scales Back Vision Pro Production, Plans Cheaper Version for 2024 as Demand Lags", "description": "Based on a report from The Information, Apple Inc. (AAPL) has drastically reduced Vision Pro mixed reality headset production since the summer, will likely stop", "source": "gurufocus.com", "url": "https://www.gurufocus.com/news/2563702/apple-scales-back-vision-pro-production-plans-cheaper-version-for-2024-as-demand-lags", "publishedAt": "2024-10-23T17:35:29.000000Z", "relatedSymbols": ["AAPL"]}, {"id": "844ad893-8b05-45ac-bcfc-ed5ff5cd1a34", "title": "Apple's iPhone 16 Pro Max Will Feature A New Design", "description": "The iPhone 16 Pro Max will have a new design, featuring a larger screen and a more compact body.", "source": "appleinsider.com", "url": "https://appleinsider.com/articles/24/10/23/apples-iphone-16-pro-max-will-feature-a-new-design", "publishedAt": "2024-10-23T17:35:29.000000Z", "relatedSymbols": ["AAPL"]}]
```

Postman interface elements include: Overview, GET http://localhost:3000/api/news?symbols=AAPL,TSLA,AMZN, Params, Authorization, Headers (8), Body, Pre-request Script, Tests, Settings, Save, Send, Cookies, Body, Cookies, Headers (11), Test Results, Status: 200 OK, Time: 6.36 s, Size: 1.7 KB, Save as example, Pretty, Raw, Preview, Visualize, JSON, Online, Find and replace, Console, Postbot, Runner, Start Proxy, Cookies, Vault, Trash.

WikiPage

<https://github.com/htmw/2024F-Team-Spirit/wiki>



LIVE

Application Demo



Thank you