

SentimentPulse API Documentation

Base URL

`http://localhost:3000`

Authentication

All API endpoints require Firebase authentication. Include the Firebase ID token in the `Authorization` header:

`Authorization: Bearer <firebase_id_token>`

Endpoints

Get News

Fetches financial news articles with sentiment analysis.

Method: `GET`

Endpoint: `/api/news`

Query Parameters

- `symbols` (*optional*): Comma-separated list of stock symbols to filter news
- `page` (*optional*): Page number for pagination (*default: 1*)
- `limit` (*optional*): Number of articles per page (*default: 30*)

Response Example

```
[
  {
    "id": "string",
    "title": "string",
    "description": "string",
    "source": "string",
    "url": "string",
```

```
    "publishedAt": "datetime",
    "relatedSymbols": ["string"],
    "sentiment": "POSITIVE|NEUTRAL|NEGATIVE",
    "sentiment_score": 0.95
  }
]
```

Refresh News

Force-refreshes the news cache.

Method: GET

Endpoint: /api/news/refresh

Query Parameters

- **symbols** (*optional*): Comma-separated list of stock symbols to filter news

Response

Same as the GET /api/news endpoint.

Get Statistics

Retrieves analytics about cached news articles.

Method: GET

Endpoint: /api/stats

Query Parameters

- **symbols** (*optional*): Comma-separated list of stock symbols to filter statistics

Response Example

```
{
  "total_articles": 100,
  "sentiment_distribution": {
    "POSITIVE": 40,
    "NEUTRAL": 35,
```

```
    "NEGATIVE": 25
  },
  "top_sources": {
    "Reuters": 30,
    "Bloomberg": 25
  },
  "top_symbols": {
    "AAPL": 15,
    "GOOGL": 12
  }
}
```

Health Check

Checks the API's health status.

Method: GET

Endpoint: /health

Response Example

```
{
  "status": "healthy",
  "timestamp": "2024-12-15T12:00:00Z",
  "cache_size": 100,
  "rate_limit_cache_size": 10
}
```

Rate Limiting

- **Cooldown:** 10 seconds between requests to the same endpoint.
- If the rate limit is exceeded, a 429 Too Many Requests status code is returned.