# **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.