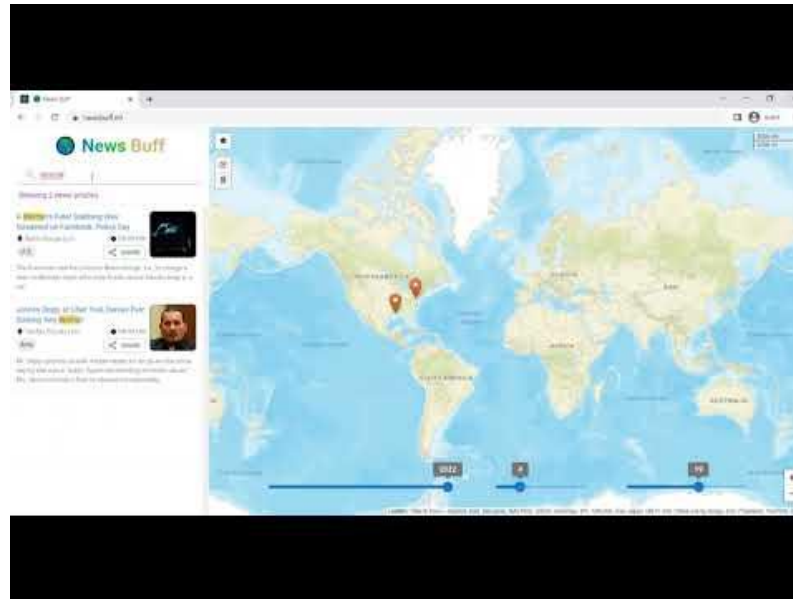# News Buff

Headliners

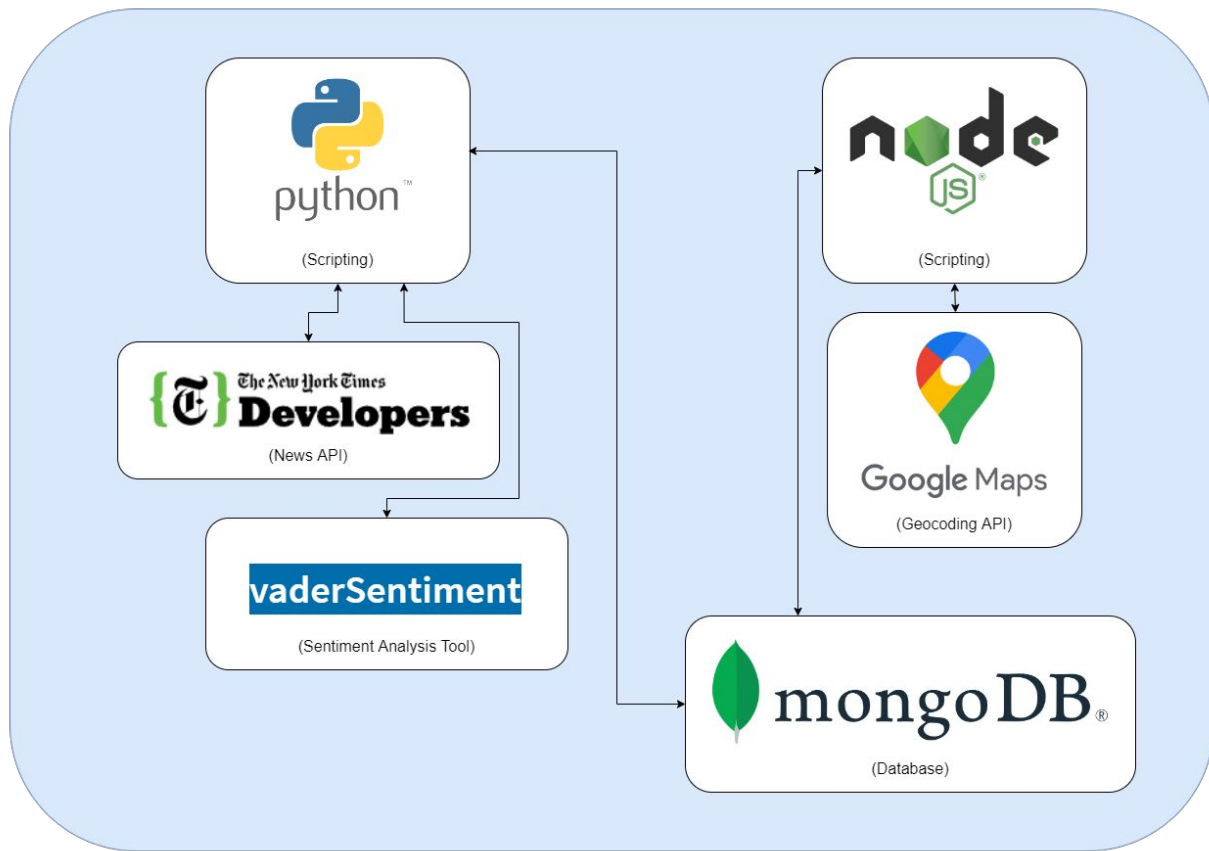Sagar - Akshay - Saumya - Anusha - Pratyush

Introduction

- News Buff is an interactive world map of global news
- News pins are populated on the map depending on the user inputs - year, month, day, query
- Each news article's location is geocoded and shown on the map
- Sentiment analysis is done on each news article to calculate a sentiment score from -1 to 1
- Each location has an average sentiment score and shows its articles
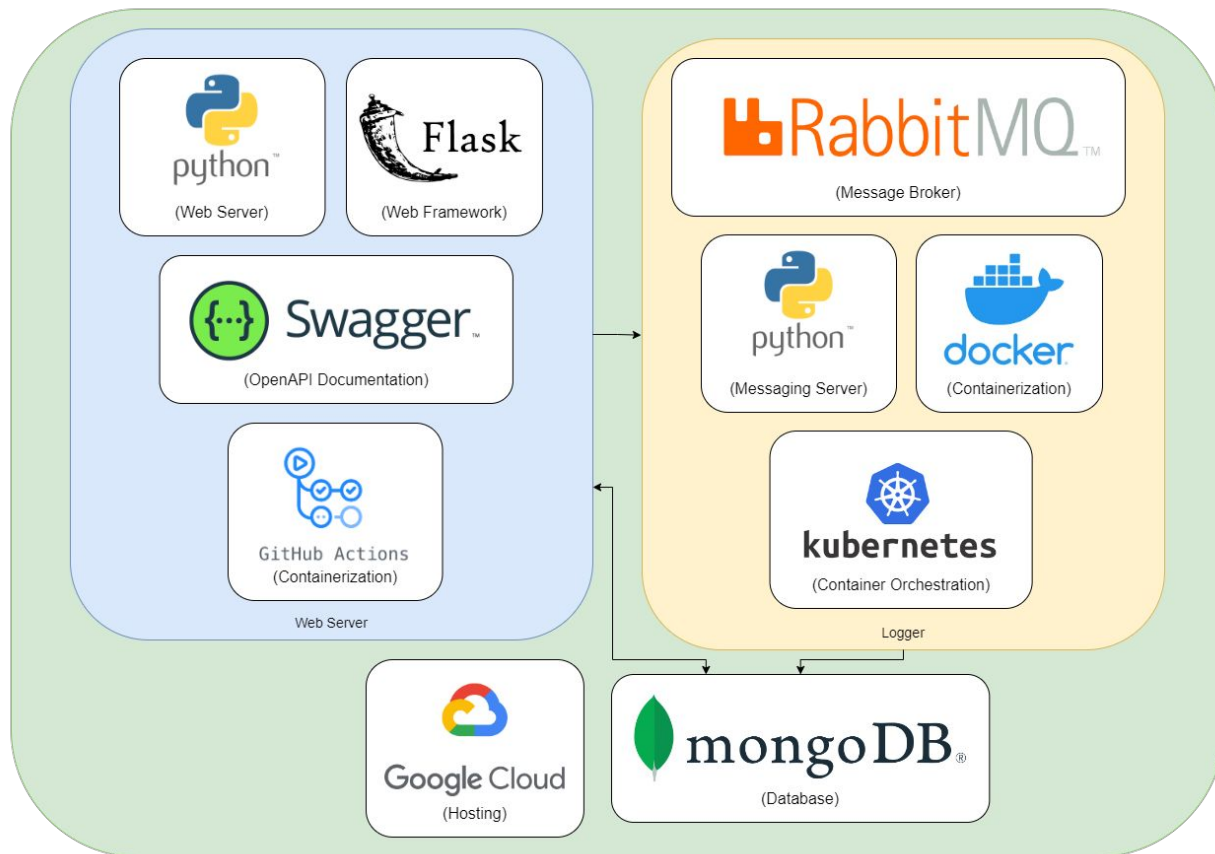- Share article via Social Media
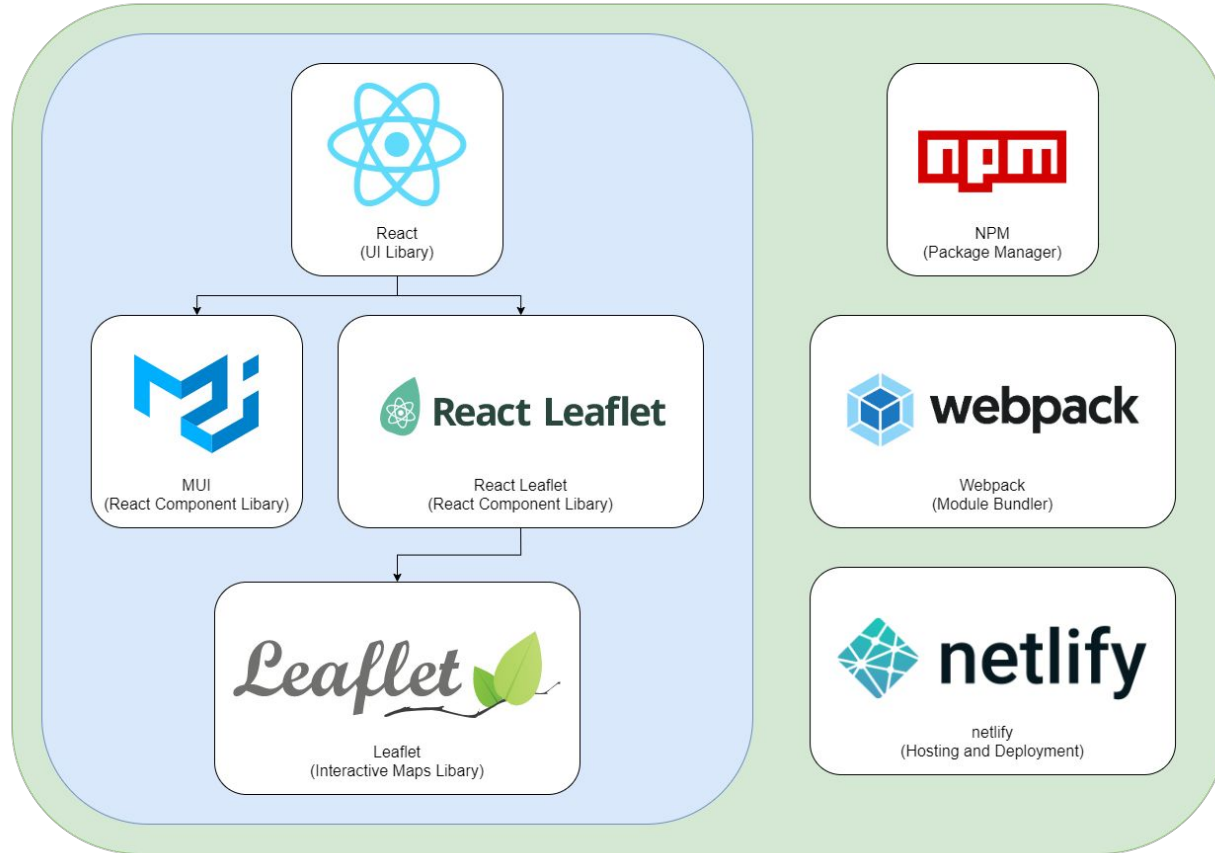
Demo- newsbuff.ml

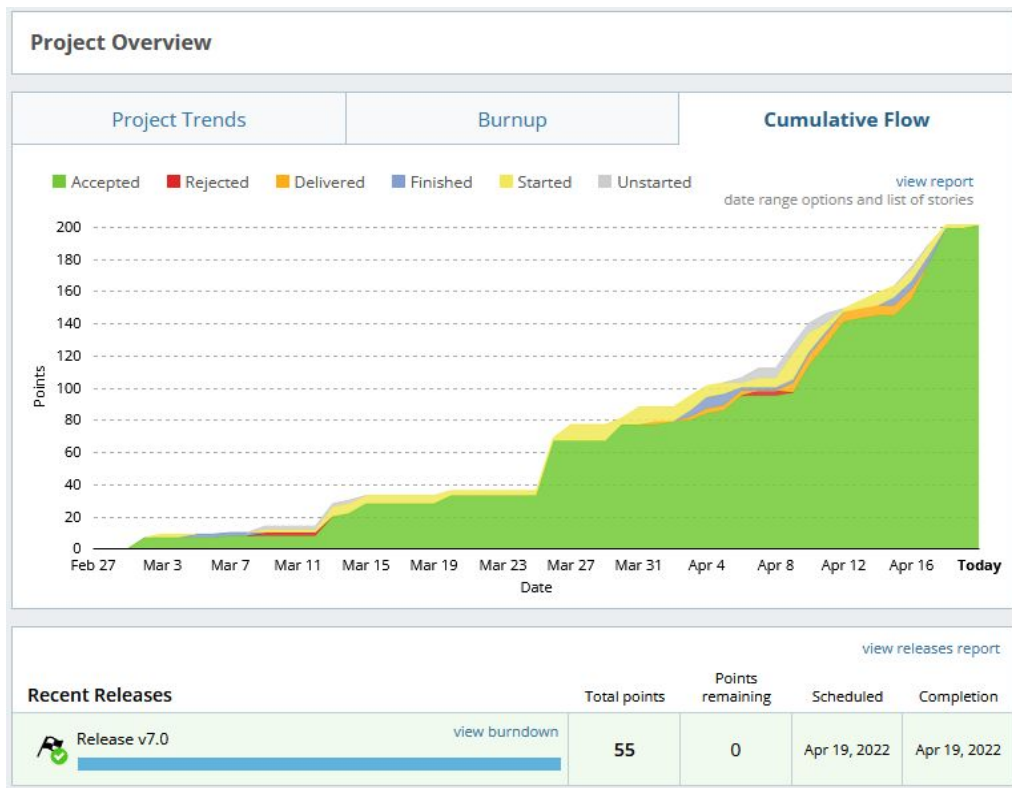# Backend Data Fetch Architecture

Backend Server Architecture

Frontend Architecture

Project Management/Development Tools
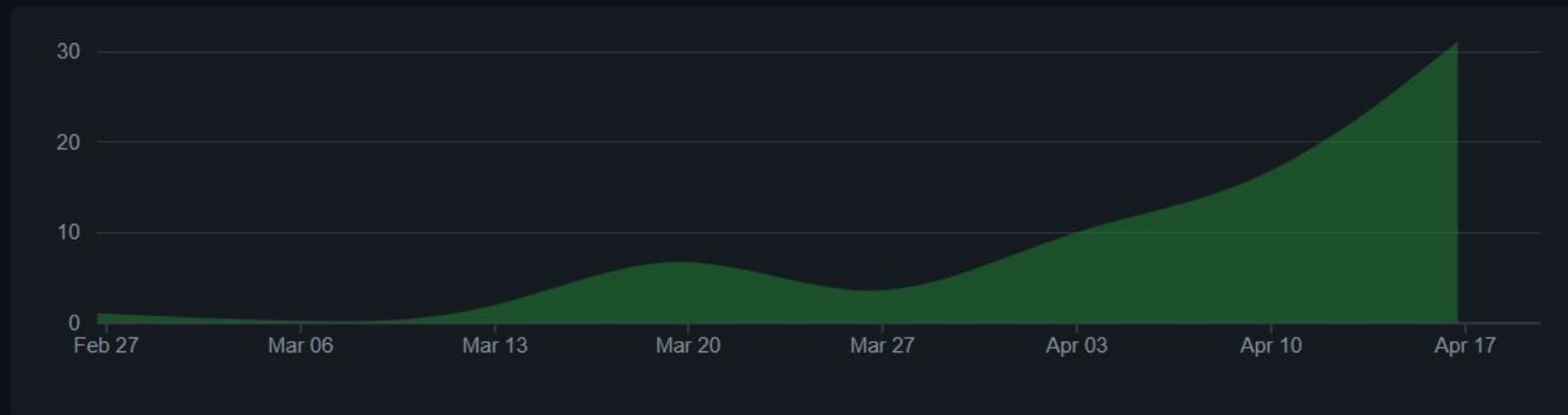
Project Management

Backend Commits

Frontend Commits

Feb 27, 2022 – Apr 20, 2022

Contributions: Commits ▾

Contributions to main, excluding merge commits and bot accounts

Let's talk **Scale**

3,590,557 News Articles from

122 Years = **1,464** Months from

78,021 Locations

Let's talk **Scale**

~6 hours Fetching Articles

~8 hours Bulk Geocoding

~4 hours Database Queries

~3 hours Sentiment Analysis

Challenges

- Requirements updated every sprint
- Restrictions on APIs- cost and rate limits
- Bulk Geocoding- Node.js asynchronous fault tolerant fetch script
- Slow queries due to size of data- small room for error

Future Work

- Responsiveness- Mobile support
- Multiple news sources
- Accessibility- Support different languages, speech to text, theme selection
- Personalized news recommendations based on user history

Headliners

Anusha Basavaraja
Backend
Hosting & Deployment

Saumya Bansal
Backend
Hosting & Deployment

Sagar Pathare
Team Lead
Project Management
UI/UX Design & Prototyping
Backend & Frontend
Hosting & Deployment

Akshay Abhyankar
Backend
Hosting & Deployment

Pratyush Thota
Frontend
UI/UX Design

Thank you!

Questions?