
Smart Suggest

Team

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https://github.iu.edu/sparanjpe/ads_project_final

Introduction

A hashtag suggestion tool that provides the most recent and relevant hashtags based on the latest news. Elevate your social media presence with trending and engaging hashtags, without the hassle of manual searching.

Features of the app

- Suggest sports related hashtags based on tweet typed by user
- Sentiment analysis on the edge!
- Show location-wise sentiment on dashboard
- Functionality to append suggested hashtags to the tweet
- Functionality to copy to clipboard

Computing at the Edge

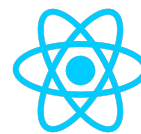
- Social media platforms generate vast amounts of data every day
- Twitter performs sentiment analysis on the server-side
- Calculating sentiment from tweets on the edge can help us reduce load on server
- Understand the sentiment for a specific location in real time

From news to #hashtags!

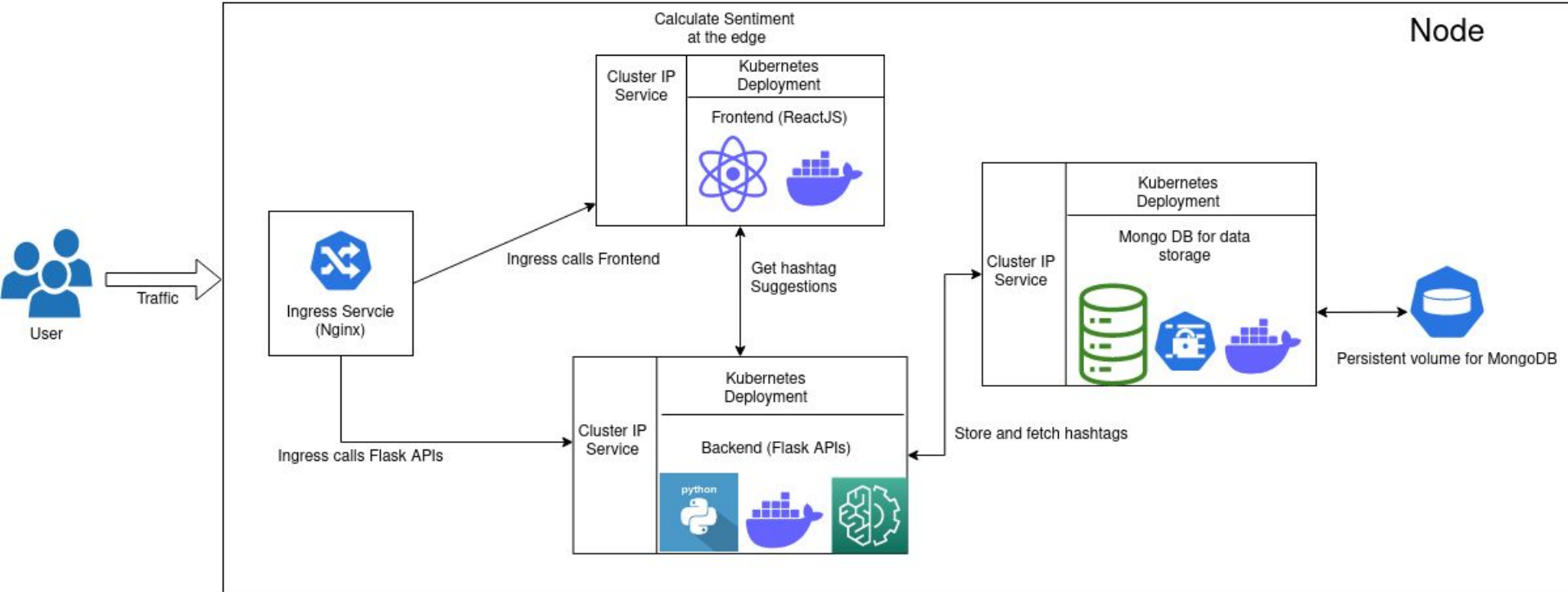
- Scheduled news api to be called every 5 minutes to get latest news
- Fetch latest news articles from the NewsCatcher API
- Analyze and Filter
 - Remove stop words
 - Remove punctuations
 - Keep nouns (used Parts-of-Speech tagging)
- Store key-value pairs (mapping of each word with other) in MongoDB
 - Eg. News Headline: Hello World | Mongo Storage: {"Hello": ["World"]}, {"World": ["Hello"]}
- Suggest hashtags from the database based on the user's input

Tech Stack

- **Frontend:**
 - React.js: A component-based framework which make it easy to create reusable UI components.
- **Backend:**
 - Flask: Is a light-weight web application framework which provides tools, libraries and technologies that allow you to build a web application.
 - MongoDB: A Nosql database which stores data in form of Json-like documents.
- **Docker**: A containerization tool
- **Kubernetes**: An open-source container orchestration system



Architectural Diagram



Demo Time!

Thank you!