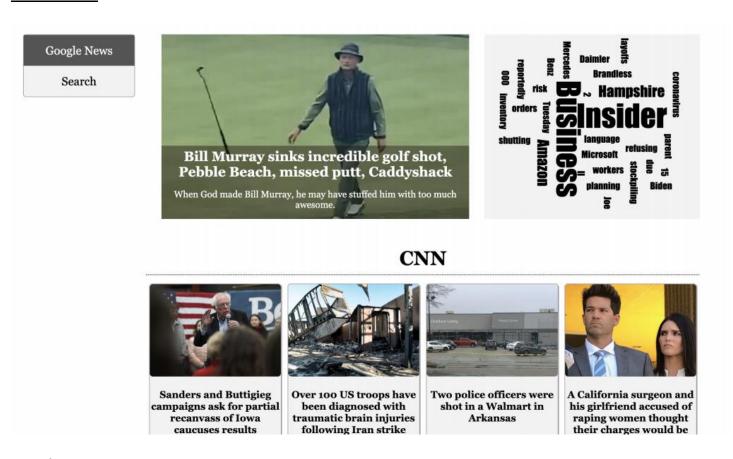# Web App by Deep Joshi

Description

This repository consists all the relevant files used to develop a news web app that fetches the content from popular news channels like CNN, Fox News, Bloomberg, etc. using the Google News API and displays the articles organized as per user search query. The application also has a customized search functionality that dynamically determines the best source of news feeds and allows users to select the desired source, depending on form inputs such as keywords, time, date and category. The index page of the application contains a word cloud that represents top headlines of the day by finding the top 30 frequent words from the title of the news article.

The front end is developed using advanced HTML, CSS and JavaScript. The dynamic word cloud has been developed using D3.js along with utilization of scalable vector graphics. The routing endpoints and the API calls are made from the Python backend using Flask web framework.

Home Screen

Search Form

- **Keyword**: A required field that cannot be empty. It is an edit box the allows to enter keywords for searching news about the keyword. The default value is empty.
- **From**: A required field for the date from which the articles are to be fetched. The default value when the form is initially displayed is the date 1 week ago from the current date.
- **To**: A required field for the date to which the articles are to be fetched. The default value is the current date.
- **Category**: A drop down to select among categories.
- **Source**: A dynamically changing drop down that changes depending on the selected category. Default selection is all.
- **Search button**: To allow search functionality only when a keyword is present. The input field validation is done on clicking the search button and appropriate errors are displayed.
- **Clear button**: Resets the form to default values and clears search results

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The search query returns the headline along with short description about the article in the scrollable card format. The cards are clickable and provides some more details about the article along with option the redirects to the original source.

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Author: By Ali Daher For Daily Mail Australia

Source: Dailymail.co.uk

Date: 02/10/2020

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