An Improved Method for Multi-Lingual News Feed Application

Regonda Nagaraju, Mohammed Farhan Pasha, Mohammed Abdul Majeed, Adapa Sujith

Abstract: In the present era, the internet and new technologies are changing the information behavior of news reader. Instead of reading a copy of the local newspaper or watching the scheduled-evening news, people increasingly turn to the internet for daily news updates. A Multi-Lingual news feed application is aimed at developing a web-based application named multilingual news feed app. This Application deals with the user who wants to read news from the web application. User can select different countries in which a user is interested, the latest news will be fetched from the selected country. The news will be fetched and displayed based on the country selected in its own national language & the news is categorized into 7 different categories. A user can select any category which they are looking for. When you are done selecting the country & category, then the page will automatically refresh and the news will be displayed on Multi-Lingual news feed application. This application also supports translation and the news can be translated into any language. This application is fully responsive and has a good-looking user interface. The users will find this application much interesting for reading the news articles.

Keywords: News application, Multi-lingual, Country, Category.

I. INTRODUCTION

In the present era, the internet and new technologies are changing the information behavior of news reader. Instead of reading a copy of the local newspaper or watching the scheduled-evening news, people increasingly turn to the internet for daily news updates. A Multi-Lingual news application is aimed at developing a web-based application named multilingual news feed app. This Application deals with the user who wants to read news from the web application. User can select different countries in which a user is interested, the latest news will be fetched from the selected country. The news will be fetched and displayed based on the country selected in its own national language & the news is categorized into 7 different categories. A user can select any category which they are looking for. When you are done selecting the country & category, then the page will automatically refresh and the news will be displayed on Multi-Lingual news feed application. This application also supports translation and the news can be translated into any language. This application is fully responsive and has a good-looking user interface. The users will find this application much interesting for reading the news articles.

II. LITERATURE REVIEW

According to our recent research, we found out that there are various news web applications that are restricted for single language and also they all provide news from a single source. Examples are BBC, CNN or other local news channels like AajTak, TV9 Telugu etc. provide news in their regional languages or by default English language. These articles cannot be read by users of other countries.

As per InternetWorldStats fig 1, there is a huge ratio of people accessing the internet in other languages which increases the need for content to be available in different languages.

Figure 1 - InternetWorldStats estimates of the number of Internet users by language as of April 30, 2019

III. EXISTING SYSTEM

Most of the people get the information about the world news through the internet, which is fast accessible and reliable. People have no time to be updated through Newspaper or watching news in the television, so different web applications have introduced to provide news across the world. English is a global language; the most commonly spoken language in the world – used in every sector from business to social media, from sciences to the arts, from sports to international trades. So most of the news applications from all over the world serve the live news to
the users in English language only. Few applications serve the news from single source & websites are restricted to provide news in local language.

Disadvantages—
- These applications Fetch the news from single source
- Few applications publish articles only from one particular country & the language supported is only English.
- Foreigners who have difficulty reading English or who cannot understand English will not be aware of the current situations in the local country or around the world.
- It is difficult for the users to find required news updates in different languages from different sources in a single web application

IV. PROPOSED SYSTEM

This project is aimed at developing a web based application named multilingual news feed app. This project deals with the user who wants to read news from the web application. Here user can select the categories of news they are looking to read. User can select different countries in which a user is interested, the latest news will be fetched from the selected country. There are more than 50+ countries in this application & breaking news headlines from 134 of the most notable sources[2] from all over the world. The news will be fetched and displayed based on the country selected in its own national language & the news is categorized into 7 different categories. A user can select any category which they are looking for, but the users may find difficulty while reading the news in different languages, so a Translator [3] is added to the web application. Now a user can also translate the article without any discomfort & tension. The article can be translated into more than 90+ national & International languages. This application is fully responsive and has a good-looking user interface. The users will find this application much interesting for reading the news articles.

Advantages—
- It helps users to read the articles in his/her own national or International languages.
- It fetch data from different news sources all around the world.
- User can select different Countries news in which a user is interested.
- Article that is fetched can be translated in more than 90+ Languages.

Get live top Headlines & new articles available within 15-Minutes delay.
- User can also select different categories of News

V. DESIGN

First a user opens/runs the application using internet in a browser. Angular is used as a frontend technology for the application. The by default country selected is India and category is health. Once the requests is processed it will request to backend server (Nodejs). NodeJS handles all the requests and will request to NewsAPI[1]. The NewsAPI will send the data in the form of JSON data. The data is processed according to user preferences in the backend and the response is send to the frontend.

VI. RESULTS

We have successfully developed the application which will serve news from all over the world. User can select the country, different categories and can also translates the article in to 90+ national & languages.
VII. CONCLUSION

After considering all the facts present in the introduction section, we did research in different news applications and came up with a solution. Multi-Lingual news feed application will provide news from 50+ countries and the news can be translated into more than 90+ languages. It is an open source application, anyone from all over the world can access our application without any subscription charges or any user details.

In future a database will be added to the application which will store the user information and stats can be known easily by adding a small counter. Only Admin can see the count about the number of users who accessed our application. Pagination can also be added to our application which will load the news in different pages. The application that is developed is a simple and user friendly. By using advanced CSS styles and different front-end technologies interface of the application can be developed more according to user requirements.

REFERENCES

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