



Location Based Filtered News using Big Data Analytics

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Abstract: Crowd With the popularity of mobile devices we know many peoples are using mobile to read the news instead of newspaper, because they are interested to read the news as per their geographical area. So, for that we are introduce SLR triangulate method called as Section based, location based and ranking based news recommendation system with the help of fake user detection.

Keywords: Topic ranking, inverted pyramid, location aware news recommendation, spammer identification.

I. INTRODUCTION

In general, Global news does vary from local news and users are interested to read the news as per their location or selected area. Most of the news provider not provides the news as per the location based and user interested news and not with proper arrangement of news and users are facing issue to read the news. To resolve these issues many techniques were suggested such as section-based news, location aware filtered news, ranking news and spammer detection.

To address those issues, in this paper we have suggested triangulate method called SLR which is known as Section based, location based and ranking news with spammer detection method with the help of hash function. In that we find MD5 algorithms is best for to detect user and make them as spam if they found to do any illegal activity. Along with that inverted pyramid concept help to provide proper arrangement of news with the trending and location-based news. Using these algorithms can yield acceptable results while user red the news.

II. LITERATURE SURVEY

Over the years many ways to improve accuracy and robustness are suggested by many people, in this literature survey spammer detection, inverted pyramid, ranking based and gps technology are discussed

H. Zhang and H. Liu stated the “inverted pyramid” structuring to the paragraph and sentence levels. This paper also visually and statistically presents the rhetorical structures at sentence level, which are to some degree different from grammatical structures. [2]

H. Yin, B. Cui, H. Lu, Y. Huang, and J. Yao stated about how the focus time and expression for each news can help to rank it. [3]

Y. Noh, Y.-H. Oh, and S.-B. Park location is tagged to give more local news to users. Authors have used concept of location tagging [4]

R. Kaur, S. Singh, and H. Kumar Spam detection can be used after study of behavioral analysis & identifies fake user [5]

III. METHODOLOGY

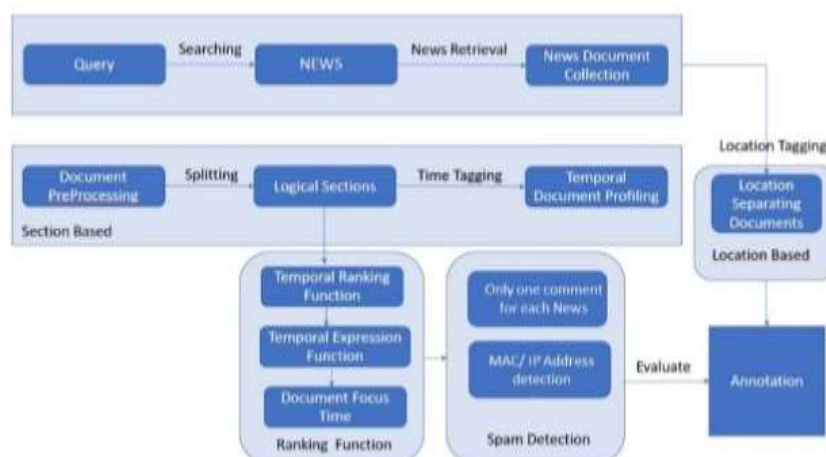


Fig. 1. Architecture diagram of system

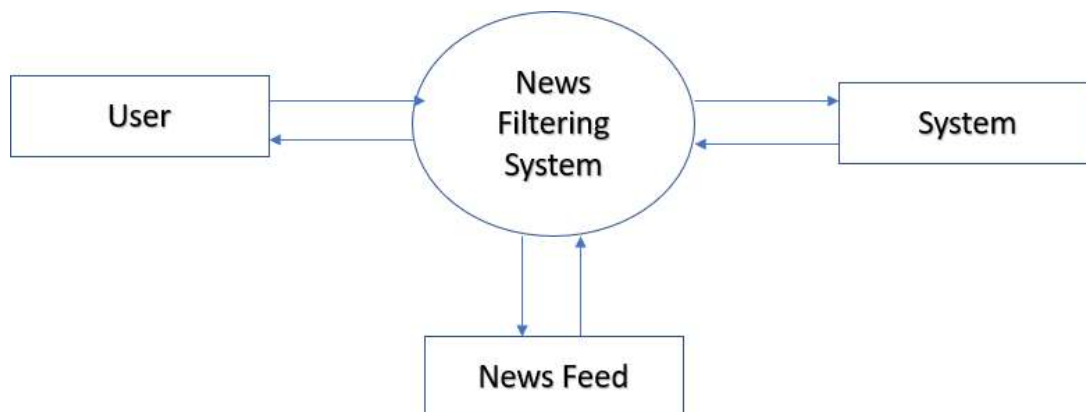


Fig. 2. Data flow diagram of admin

The architecture show that a query is passed through the news and data is collected for query. The data collected is location tagged to sort news according to locality. The data is also sorted and divided to time tag and create section-based documents. The Sectioned data is Ranked based on ex- pressions and time focus on each section. Same data is detected for spam user and block that user. After Evaluating, User gets Filtered Data [shown below figure 1] In figure phases included in News Filtering Services [shown in above figure 1] is as follows:

1. Searching: The Query is put forth for search through any news medium such asRSS feed[8].
2. News Retrieval: News is collected from all related medium resulted by query[2].
3. Splitting: News is separated into templates for more scanning[2][1].
4. Time Tagging: Each document split and is time tagged which is used for determiningthe ranking of the news[3]
5. Location Tagging: Each news is location tagged to give base for location of news[4].
6. Spam Detection: Spam is detected with classification of positive words and negativewords [5].
7. Evaluation: Evaluation is finalstep to give filtered news to User.

Data flow diagram shows basic entities through which data flows which are News Feed where the query is processed. The User who puts forth the query and the system which processes it [shown in below figure 2].

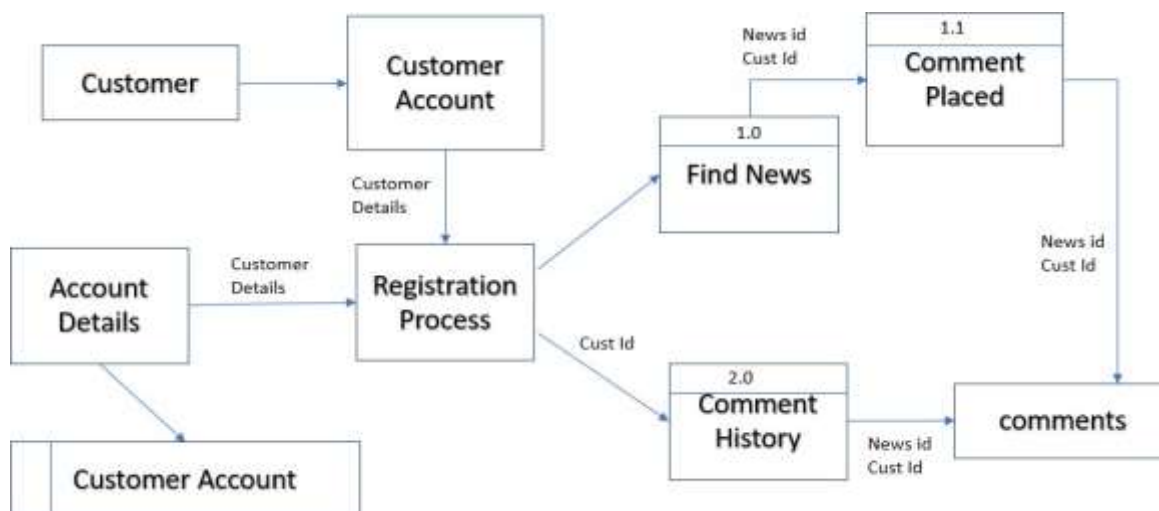


Fig. 3. User side Data Flow

In that data flow diagram where customer creates account and stores his information and registers himself into the system, After registration he can find news or he can also comment on earlier news. Comments placedare again documented as comment history to keep track of comments and detect spam if any [shown in below figure 3].

IV. RESULT

This system is implemented in php under the MD5 algorithm to detect spam user. Inverted pyramid concept help us to provide proper arrangement of news to the user with the help of another methods called location aware news



recommendation with the help of page rank algorithm. The proposed System is tested in various devices to check whether spam detection works properly or not.

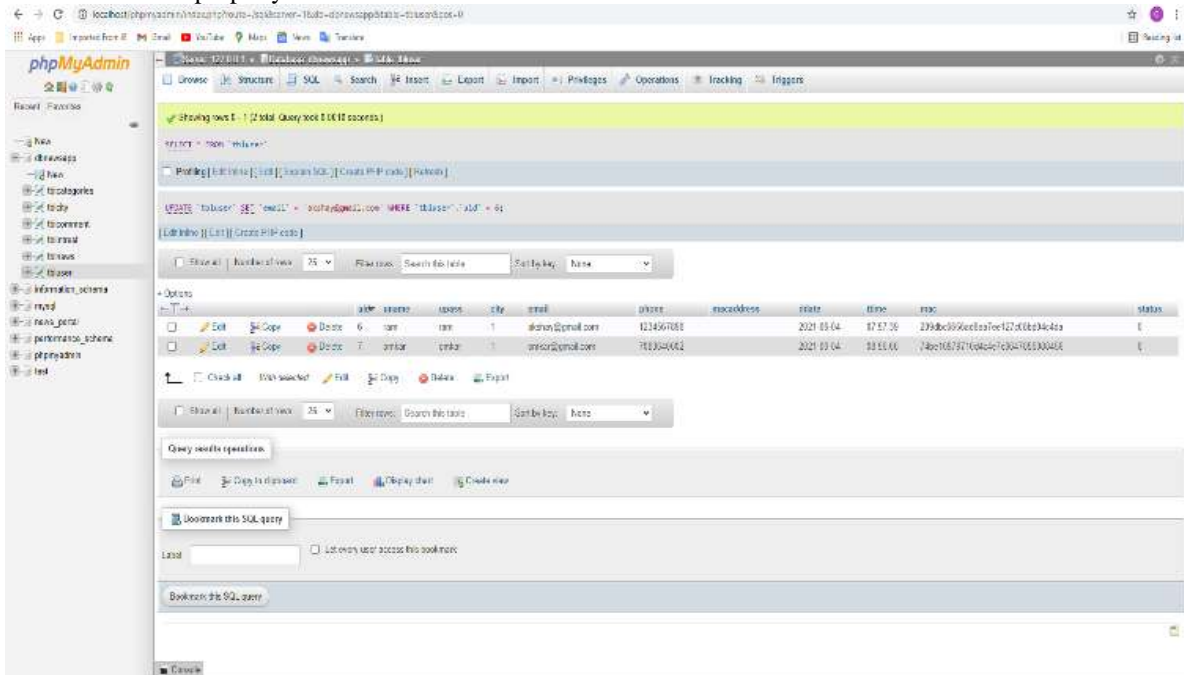


Fig. 4. MAC/IP address detection

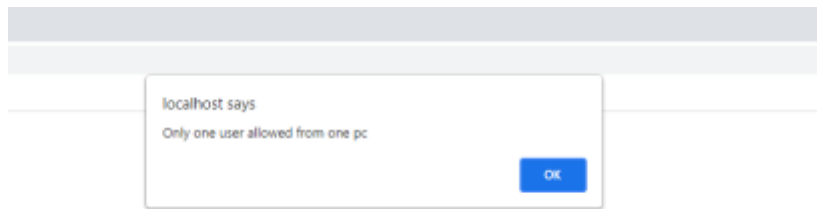


Fig. 5. Spam user detection

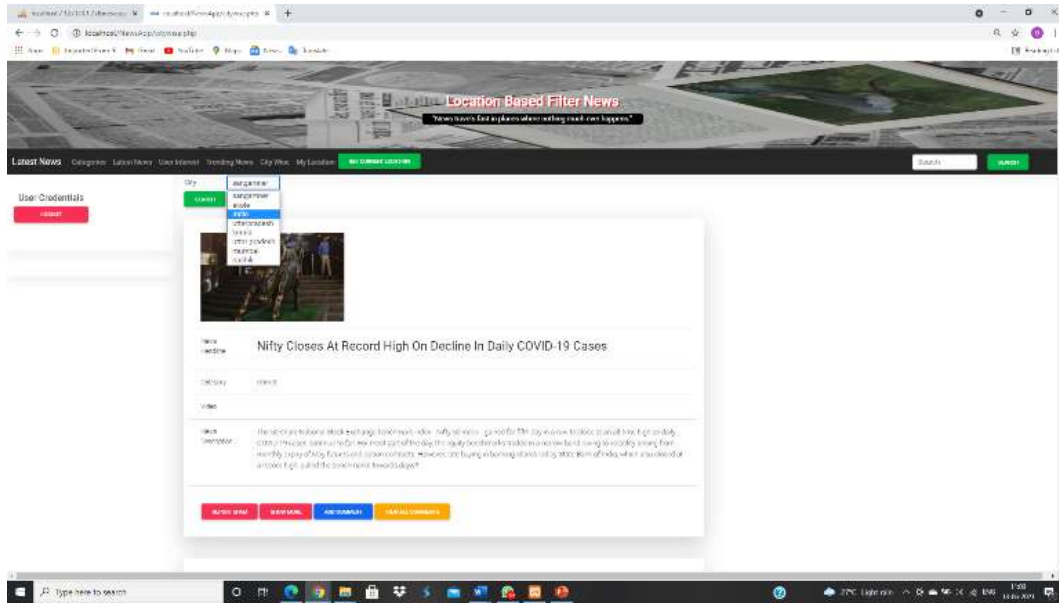


Fig. 6. Location Based and section based news

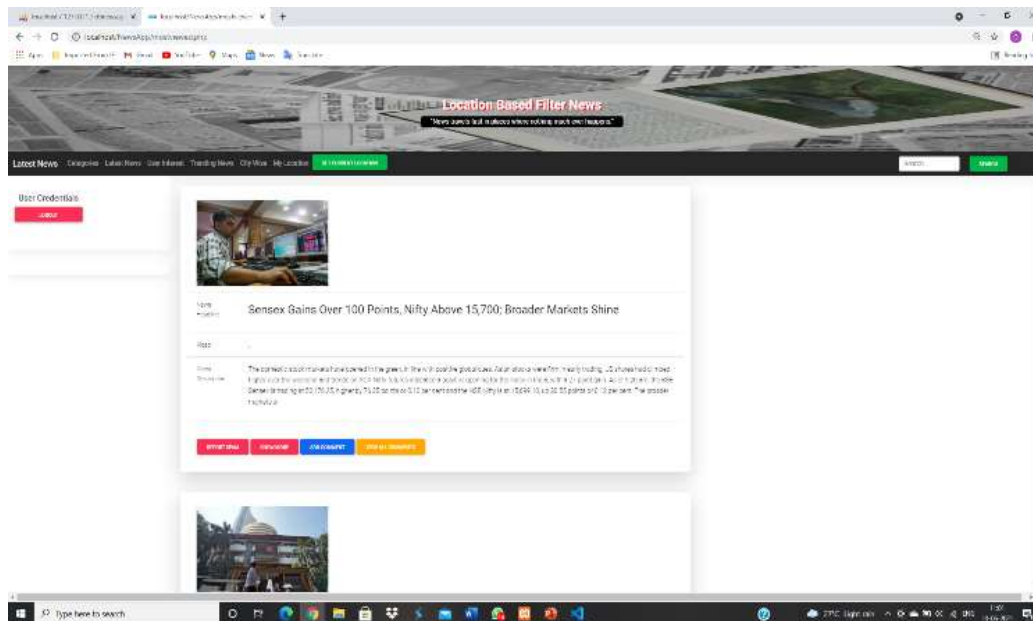


Fig. 7. System test outdoors using gun image

V. CONCLUSION

In this paper Location Based Filtered News highlights which is used to increase the quality of news. This is done by applying methods i.e. section based method, spammer detection method, location based news separation method and Ranking function. This will benefit to both i.e. the reader and the news agency. The reader will be at his/ her ease while going through the news and the news agency will get benefited by increasing number of viewers or number of hits to the website. Though the accommodating of all the methods in one platform is a bit tedious task but by making meticulous planning and organizing in a systematic way this method will prove to be the best way of presentation of a news.

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