Conceptual Structure of Application for News Feed

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ABSTRACT

This paper describes a conceptual structure of application, which is based on user desired news. The era of mobile technology opens the window to the android app. The websites are vanishing and mobile phones are emerging. It's time to change from conventional websites to apps, which has become the part of our daily routine. We are introducing "NEWS FEED APP FOR ANDROID", the android application software which would be a miniature of our news websites. We use API authentication to update our news daily without human interference. It gives us more comfort and a better user interface. It acts as an overview about global news. We provide this only for registered users in order to maintain security. Individual accounts can be created for every android users. A log-in mail and a password is created for the users to get registered. We modify the app by personalizing the news feed. A brief description would be provided to the user on his interested blog. Personalize news feed application allows user to save time and gives him only interesting articles, news. It also enables him to post the news.

Keyword: news, personalization, news aggregator, database, keyword, posting, news feeder.

1. INTRODUCTION

With the rapid development of the Internet and its permeability, people get to know the latest news through online media, blogs and news feeds. Nowadays, news reading is an indispensable daily activity of many people. With the recent popularity of smart mobiles and the rapid development of the mobile Web, more and more people tend to read news online via their mobiles or other handheld devices, e.g., tablets. However, due to the huge volume of news articles generated everyday, readers cannot afford to go through all the news online. So, news recommendation systems, which aim to filter out irrelevant online information and recommend to users their preferred news, have been widely studied. For easy organization, news aggregators that allow a single place to view news from various sources using API. There are several problems with the use of such means of aggregation:

• one and the same news illuminate by several media outlets that serve only the facts - spends time on re-read the information already obtained;

• many news sites have not categorize their news feeds - reads news which are not interested in.

In classic personalized news recommendation systems, a user's news preferences are usually learned using his/her news reading history or other online activity histories; therefore, the user's news preferences are (almost) static in these systems. However, in real-world contexts, users' news preferences usually evolve with the change of their locations. For example, people may prefer economic or political news, when they are working in the office; but they may like to read entertainment or sports news, when they are at home. This paper presents the conceptual framework and algorithm application that will resolve the given problem.

The epitome of this concept specially includes posting the news. It acts like feeder which enables the user to feed the news into server which checked by the administrator and after genuinity is verified will be posted to the news.It acts like a bridge of communication between user and the administrator. The role of the user is not limited just to view the news but can be enhanced as a feeder.

2. CONCEPTUAL STRUCTURE

At the core algorithm personalize news feeds have an idea identify key words, phrases and track user responses to them. This will have base areas that interested user. With this, halt will filter out news information feeds. In case, there is no perfect method for extracting keywords from the text [1]. Especially problematic is available in languages where each token characterized by a large number of word forms. Some methods require a corpus of texts, but very difficult to create an array of texts that would reflect a broad subject area.

Keywords are commonly used for search engines and document databases to locate information and determine if two pieces of test are related to each other. Reading and summarizing the contents of large entries of text into a small set of topics is difficult and time consuming for a human, so much so that it becomes nearly impossible to accomplish with limited manpower as the size of the information grows. As a result, automated systems are being more commonly used to do this task.

With the advent of the internet, there is now both a massive amount of information available, as well as a demand to be able to search through all of this information. Keyword extraction from text data is a common tool used by search engines and indexes alike to quickly categorize and locate specific data based on explicitly or implicitly supplied keywords. One solution to this problem is the idea of using an array of edits. To assess the quality-partitioning column made counting the number of edges in the community and beyond. Bold keywords is in several communities (usually 1 to 3) with the highest ranks for counting scales ribs.

Each article will include shows extracted from it keywords. There are some rules that will affect the presentation of such news:

• If a user read only the headline and not moved to a detailed description news - lowers the priority of such news presentation and keywords extracted from it; a conflict may arise if headline news highlights all the required information to the user. In this case, you can use the ratio of keywords in title to its length, but this method will provide only part of the right decisions on priorities keywords;

• User moved to detailed news. In this review, it is able to:

- notice key words, which it is interested. In this case, the rating of these words will increase;
- notice key words that he was not interested to continue to show less news with keywords

- words such ratings decreases;

- just read the news - rating all keywords increases, but at a smaller value than at marked them as interesting. Keywords given rating scales. The easiest way to implement it, isolating each recording a separate keyword field where the default weight is zero, and changes in a positive or negative way, which will help sort news by user preferences.

A similar technique using Google and Facebook for the presentation of relevant contextual advertising.

Another feature is the search and news coverage on similar terms. For example, when user interest in the company STMitsroeletstronitss application must also get updates about Analog Devices, Kionix and other companies that produce MEMS, sensors, etc., that is, the companies that work in one area. In the same way, the system works, and vice versa - if people do not care MEMS particular company, the rating of all keywords related to microprocessors has reduced. In this case there is a problem, because the user may be interested in finding MEMS, but it does not interest products separate company, in the event of the user from the news advisable to display a list of reasons why this news is not interesting for him, where he can enter - it not interested in specific news or general news in this subject area.

The problem of coverage of multiple sources of the same information solved with existing methods of checking for text uniqueness. It should establish a threshold percentage, which will determine whether the news shown to the user. If these sources in different languages, the application must cover the news in the language of a given request, if the user does not put priorities, otherwise the application can inform the user about the existence article in another language. Combining these features will personalize news feeds - algorithm and conceptual diagram below.

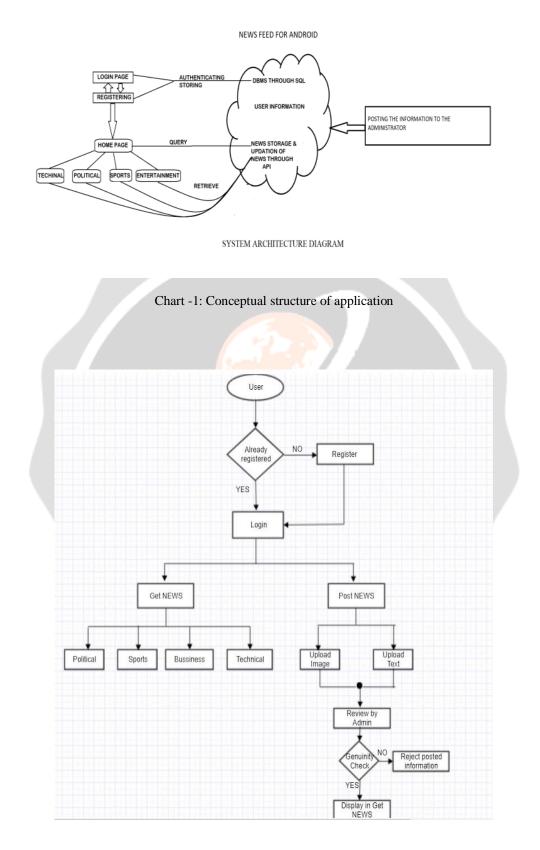


Chart-2: Algorithm of application

3. SOFTWARE

This application based on API Integration. This technology gives us possibility to build RESTful service. GOOGLE introduced new API. As database, we used MY SQL Server with MongoDB. This combination allowed to us to increase performance for searching data in DB. SQL Server will contained information about user, their news feed and keywords. Android with database will hosted in separate servers, for users will developed different user interfaces: web interface, interface for Android OS, IOS and Windows Mobile. This approach gives us more flexibility and shift some functionality on the client side.

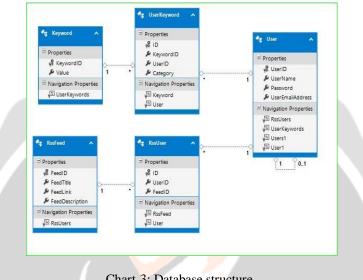


Chart-3: Database structure

Client side will developed with HTML5 with JavaScript. There are many framework that gives developer possibility develop application for IOS or Android on HTML5 (phonegap, framework7).

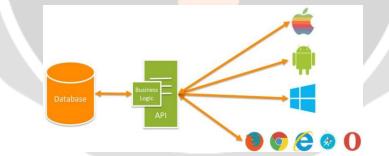


Chart-4: Architecture with a central API, which hold all the business logic [5]

Each client side communicated with database throw RESTful service. REST stands for 'Representational State Transfer' and it is an architectural pattern for creating an API that uses HTTP as its underlying communication method. Net's Web API is an easy way to implement a RESTful web service using all of the goodness that the .net framework provides.

4. CONCLUSION

The developed algorithm personalize news feeds saves the user time and give him only interesting articles, news etc.News Feeder provide users a way to syndicate and republish content on the app. Users publish content in the app either in text form or images and the information published if found genuine is directly published into the app which can be seen globally. On other apps and sites act as one way mechanism in which the users are predefined to

view the updated news. This feeder provides an opportunity to share the news that are first encountered by users. It is later reviewed by the admin for genuinity. It enhances the present scenario of news apps into a newer dimension with user involvement. It is more simplified version than the existing application and sites in which it attracts the user by specializing feature of posting news. This enthralling feature add interests on public to pursue this app more frequently. Overall, it is a refreshing app with innovative features that adheres user involvement for it's contemporary feed.

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