# A Comparative analysis of Times of India Android Application with Real-Time News Broadcast System Application

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**Abstract -** *Mobile application development is fastest growing fields in the IT industry. Smart phone technology has evolved greatly over the years as the number of users are increasing day by day. With growing popularity of android devices there emerged a need to interact with users on the Android phones or tablets. The competition going on in today's IT industries, be it to a larger or smaller degree but to survive in such environment, it is necessary to acquire the knowledge about the different aspects in the world. Real-Time News Broadcast System is the application which will broadcast the news to the users along with the classification of the news in different categories with the help of Hash Table and Decision Tree technique. It would provide news update to the user as per his likes and area of interest using Selection Sort technique. One can use the Times of India application which is designed and specially developed for android smartphones, which presents with the breaking news and unparalleled coverage of national, international, business, city, health, lifestyle, entertainment, science, sports and technology topics from India's most read and popular newspaper. The prime feature of Real Time News Broadcast application is that it will track the news category which was being visited by the user frequently and will assign higher priority to that news category and the next time when the user will open this application he will be able to view that first news category in which he is interested and then all another news.*

*Key Words*: **Hash Table, Decision Tree, Selection Sort.**

## 1. INTRODUCTION

In Today's world it has become necessary to have access to current events and acquire up to date information. Without regular access to news, people would be unaware of outside world. News Broadcast System broadcasts news in fields like sports, entertainment, and politics. Investor can use this application to access information that will profit their organisation accordingly and thus the factors affecting their investment can be understood and well simplified. News help people who are affected by politics to be prepared for their results. News is a basic need for every person, to be updated about everything going around. The Modern society is unimaginable without clock time. Time is most important factor in the modern, busy and highly coordinated and interconnected lives. Time is a medium within which every person is able to exist and develop. In today's world where time is very important and people are diligent, it is necessary to build an application which provides users with the news according to their priorities for user's quicker access. To provide better accessibility to the user web applications to broadcast news on daily basis were developed. Nowadays most of the people use android phones therefore we have developed an application in android so that a large amount of users can avail it. Android is a mobile operating system (OS) designed primarily for touch screen mobile devices such as smart phones and tablets. Users can acquire third party applications with the help of Android, by following the simple steps of downloading the desired application and later installing the Android application package file abbreviated as APK, or by other way one can download them using an application store program that allows users to install, update, and remove applications from their particular devices whenever needed. Real-Time News Broadcast System is an Android application which provides news to the user on daily basis. The System reduces the time as it provides all the news which admin broadcasts along with news of user's priority. As well as system allows the admin to add more categories as and when required.

## 2. RELATED WORK

The Times of India's application provides with the complete and up-to-date coverage of everything around the world that is of relevance to the user and of their field of interest. The information can be accessed from anywhere at any point of time [1]. One can use the Times of India application which is designed and specially developed for android smartphones, which presents with the breaking news and unparalleled coverage of national, international, business, city, health, lifestyle, entertainment, science, sports and technology topics from India's most read and popular newspaper which is also considered as the most trusted newspaper. It provides with push notifications which provides ease of accessibility to the user. It comes with the  local news from more than 45 cities; movie reviews; expressive photo galleries related to the content are used; and latest videos from news, sports, business, entertainment categories are provided which is now-a-days the best way to learn and upgrade information. You can also choose your favorite city, change the background color, change the text size, saving of articles and photos for offline reading or viewing can be done. User can also share articles and photos via communication mediums like email, Facebook, SMS or Twitter. Users can view channels and listen audios of news using the features like Live TV and Live Audio, is used when connection is slow.

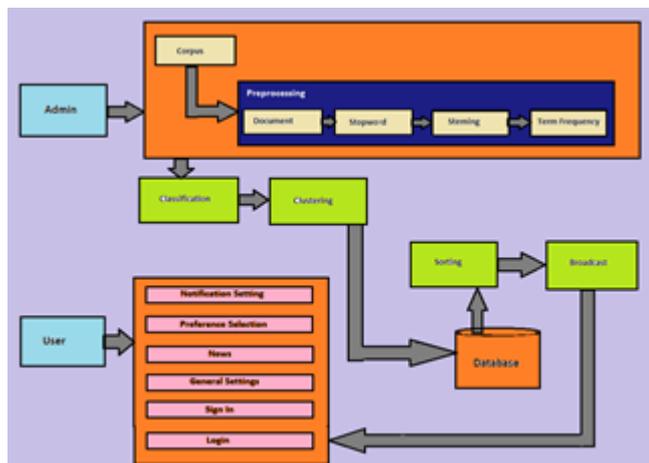## 3.  SYSTEM ARCHITECTURE OF EXISTING SYSTEM (TIMES OF INDIA ANDROID APPLICATION)



**Fig -1:** System Architecture of Existing System

The application is developed and specially designed for android smartphones, which provides with breaking news and unmatched coverage of national, international, sports, health, city, business, lifestyle, entertainment, technology, science and topics from India's most trusted newspaper. It comes with the cricket scores and the complete scorecard of the cricket match; local news from more than 30 cities; movie reviews; photo galleries; and top ranked videos from news, business, sports, and entertainment categories.

The Times of India application provides the news with different categories and broadcast these news to the user. It is a user-friendly application with manageable notifications along with general settings for text formatting, image download options. The user can set his /her preference of news category by using the settings option and can also edit the saved preference. The application provides users with the registration and login section. The system architecture of existing system is depicted in Fig.1.

## 4. SYSTEM ARCHITECTURE OF PROPOSED SYSTEM (REAL TIME NEWS BROADCAST SYSTEM ANDROID APPLICATION)
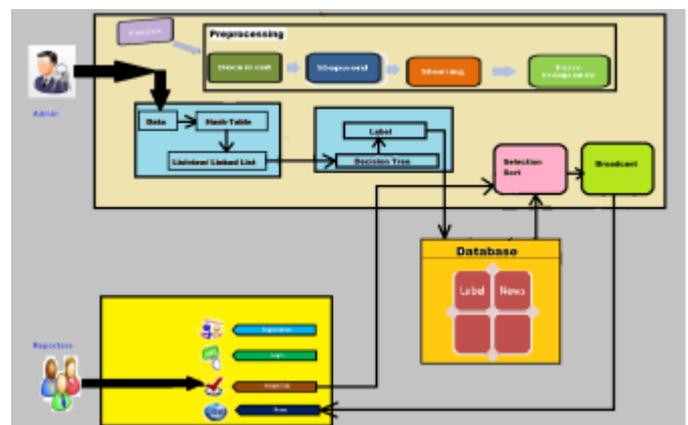


**Fig -2:** System Architecture of Proposed System

Real-Time News Broadcast system is an android based application which categorizes the news into different categories and broadcast the news to the user. System allows the user to fetch news according to the user's priority, it is also user friendly which filters the contents in efficient manner. The news section which will be visited frequently by the user will be set as the default primary priority of the user because of which it is not every time necessary to the user to set priority. Users are allowed to change priority at any time. The application provides user with the login credentials. The system architecture of proposed system is depicted in Fig.2.

## 5. COMPARATIVE ANALYSIS OF EXISTING SYSTEM AND PROPOSED SYSTEM

The comparative analysis of existing system and the proposed system is drawn out by studying the parameters and working of the aforementioned systems.

Accuracy: The term accuracy is used to describe the closeness of a measurement of a true value. The study of databases, information systems requires the knowledge of the concepts of accuracy and precision. The accuracy of android based news broadcast system application is derived by taking into consideration the level of correctness of results. The Times of India application returns information

regarding the query using classification and sorting algorithms [3]. The proposed system uses decision tree, hash table, and linked lists, to classify and sort the data [2] [4].

Sensing: The Android sensor returns values that can be divided into three main categories: movement, location and environment. A mobile wireless sensor network can be simply defined as the wireless sensor network in which the sensor nodes are mobile. They are used in environment monitoring or surveillance. Both systems use the sensing technique to monitor the conditions like event mapping and environmental mapping purposes. However major challenge to the sensing technique is the limited power usage and the limited battery life.

Precision: Precision in information theory can be defined as the fraction of retrieved documents that are relevant to the query. It can be considered as the metric to measure the performance of the system.

Recall: Recall in information theory can be defined as the fraction of the documents that are relevant to the query that are successfully retrieved. It can be considered as the metric to measure the performance of the system.

## 6. CONCLUSION

The primary goal was to make a comparative analysis of the android based application for the Times of India application and Real-Time news broadcast application. The Real-Time News broadcast system application has advancement over the Times of India application in context to which the priority is automatically set according to the frequently visited news sections and that priority is set as default priority and even can be changed anytime by the user. Although Times of India application provides with manageable notifications, vast galleries and rich graphics user experience but the inconvenience is caused regarding changing the priority every time and reading the news of interest.

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