# NEWS TRACKER APPLICATION

**ABSTRACT:**

As world's technology is rapidly growing, we have fast connection and network to instantly connect to another person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have these facilities. In this fast and information-oriented world we need to stay updated with every incident and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way.

**INTRODUCTION**

As news is increasingly accessed on smartphones and tablets, the need for personalizing news app interactions is apparent. We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users' news reading preferences and behaviour's; analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users' interactions with the app. We used the logs to train a classifier and showed that it is able to reliably recognize a user according to their reader type. Finally, we evaluated alternative, adaptive user interfaces for each reader type. The evaluation demonstrates the differential benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps.
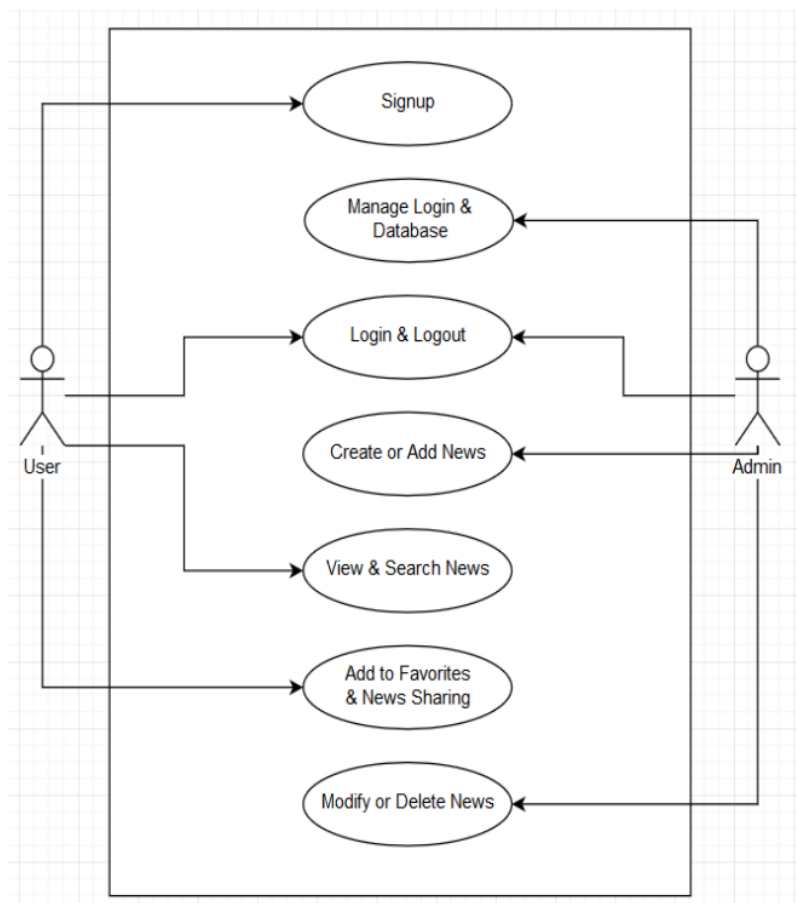
**LITERATURE REVIEW**

Native news apps are expensive and difficult to maintain. Native Publishers like BBC News or NY Times uses their own writers to manage articles and manage it. Many native newspapers are divided because of this which causes in lack of resources from one side. Android structure provides great capability with frameworks, libraries and APIs, with the help of it we can provide better user experience and combine this source at one place while maintaining integrity of its owner.

"Newsapi" provides API that returns JSON (JavaScript Object Notation) metadata for headlines and articles live all around the world at any time [2]. In this app we will be using this API for our better experience. Even after using this API, it is possible that we can't reach

maximum output of resources for that we can use Admin panel where admin or writers can add news of their own, manage and delete it. This contain will have separate database and access bar which will be labelled as "local news". A module can be implemented where user will have different local news based on his location.

**SYSTEM MODEL**

Use Case Diagram:



Use Case Diagrams referred as behaviour diagram which describes the commutation between actors or participations and set of actions. This is set of actions or use cases will be enclosed by system boundary and can also have relation with each other. Division among tupelos will based on the information gain computed for each attribute. Main Admin can add Users, Writers, and News. He can also approve, update and delete it. Using this approach we can create network in local areas connect by writers and local admins which will provide news at local level and we can also implement location feature which will update local news of different location or city.

**MODULES**

**User Interface:**

One of the factors in successful news app development is visualization of news and its feature with user. For the development of an android app material design is very useful and provides smooth experience with custom layout, views and animations. For this news app user should be able to select from different categories, countries and newspaper. Short News as list view with header, little description and image before showing full article can be helpful to user to determine what type of news they are looking for. View Holder can be used for this list view for better and fast experience. Library like Picasso can be used for better image handling. This User interface will be connected to API and Admin Panel database which will give full article in form of web view of that article. Because of this structure the integrity of writer of that article will not be in harm.

**API:**

News API has been used for collecting different news sources at one spot. On sending request it will give response in JSON format which contains source id, title, description, image URL, article URL, author, time etc. We need to handle and parse this JSON into string format which is our required format.

**Admin Panel:**

This module of app controls the User and Writers logins from database. Writers can add news, update and delete from its database as per required. Writers will only have access to admin panel while Main Admin will have access to database as well.

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**AVAILABLE FEATURES**

**Global Support:** Different type of newspaper will be available from all around the world in different languages with this user will be able to get news from all around the world.

**Short News:** News will be displayed in short format with title, image and little description in list view. It will help user to access required news faster.

**Search Option:** User will be able to search from not only one source but many different sources available within API.

Favourites / Offline Reading: News can be added as favourites which will automatically will be saved for offline reading.

**Sharing:** User will be able to share news easily on social media.

## EXPERIMENTAL STUDY AND RESULT

User was allowed to use this application in his smartphone and screenshots were taken as a result for this study. First User need to Sign Up in order to access the application which provides security for this application. Also predicted user error handling with pop-up messaging was done before this experiment like entering invalid data in fields, not selecting a field before clicking on action button etc. The result will be shown in form of screen shots below.

## FUTURE WORK

Location feature with automation can be implemented which means as user move from one city to other local news will change as per it. Offline Reading can be improved will more efficient way on full articles. Data quality check needed. If API can't reach to certain article source it gives null value which can cause problem in JSON parsing.

## LITRATURE SURVEY

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