NEWS TRACKER APPLICATION

ABSTRACT

Abstract As world's technology is rapidly growing we has fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facilities. In this fast and information oriented world we need to stay updated with every incidents 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.

"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.

INTRODUCTION

Android provides simple application structure and requires Java and Mark-up languages knowledge to work with. Such as, an discrete movement delivers a solitary screen for a user interface and a service whole completes work in the contextual. We can work on different module separately and can combine at the end, we can also add future modules easily afterwards. API (Application Programming Interface) which is an intermediate interface between different applications. It provides automation, immediacy, adaption and personalization. News API provides us the source of news articles from many different sources at one place and updates it. To expand the sources old fashioned Admin panel can be used where writers will fill the gap of API. In 2014, a design language has been created by google named Material Design which is based on "cards" uses grind based layouts, responsive animation, padding and depth effects like shadow to create an responsive, attractive and easy user interface. With the use of different libraries and material design it is possible to use attractive UI.

RELATED WORK

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 newspaper 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 sources 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 . 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
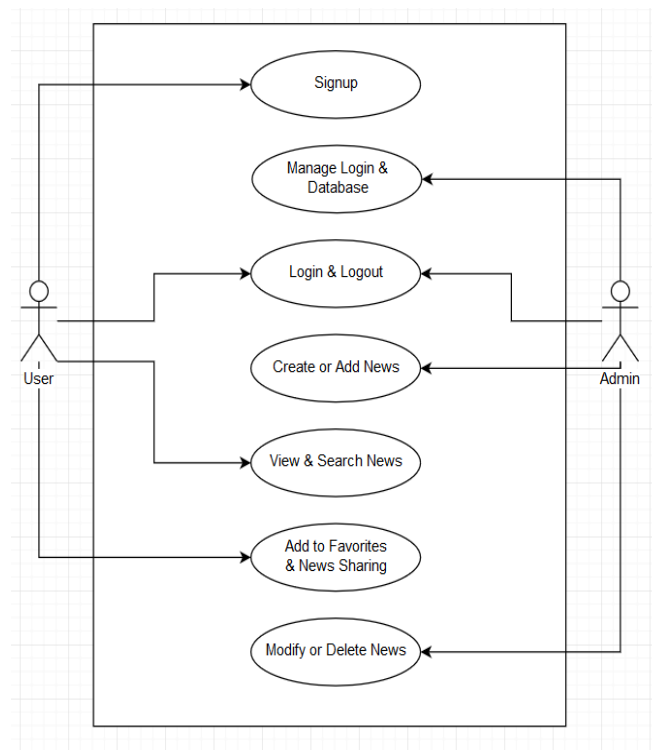
Use Case Diagram:

Figure 1: 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.

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.

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.

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 improve 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.

REFERENCES

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