Android News Application

Team Members -Navneet Mishra, Hrishikesh Khambete, Ankur Tiwari, Anshuman Uniyal

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Activities

We have used Bottom Navbar fragments as activities in our App.

- 1. Home Fragment
- 2. Region Fragment
- 3. Category Fragment
- 4. Detailed News
- 5. Category News

Home Fragment

We used Home Fragment to set the home screen for app.

The Home fragment activity contained a Recycler View, which updated the new items with the help of an adapter.

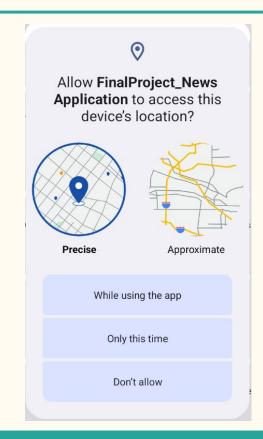




Region Fragment

The region fragment takes into consideration the user's location.

It requests the location permission, gets it granted with the help of Setting and then uses this to fetch the news from a particular region.



Category Fragment

The activity category allows users to select the domain of news they want to read.

The selected category is then used to fetch the news articles from the API.



News Activity

After fetching the articles and showing them in After populating the Recycler View with articles, we have implemented an event listener that allows users to read detailed news.recycler View, if the user wants to read the detailed news we implemented the Event Listener for that.



9 critical updates Siri needs to leave other AI chatbots in the dust

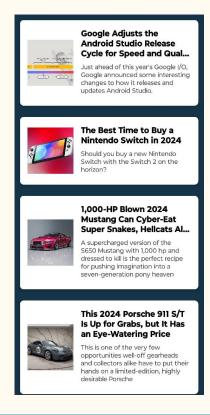
Key Takeaways Siri is lagging and needs a major overhaul to compete with Al chatbots. On-device processing is essential for enhanced privacy and efficiency.

New Siri must offer genuinely useful features, accuracy, integration, and be free.

Siri has n... [11589 chars]

Category News

After receiving the user's selected categories, we display new articles related to those categories in a recycler View activity. from the user we implement this activity by showing new articles for that category into this recycler View activity.



Retrofit & API

We used GNews API to fetch the results based on:

- 1. Top Headlines
- 2. State
- 3. Category

We implemented these retrofit functions to implement our use-cases.

```
@GET("top-headlines?country=in&lang=en&apikey="+apiKey)
Call<DataModel> getDataModel();
1 usage 🚨 Navneet Mishra
@GET("search")
Call<DataModel> searchData(
        @Query("q") String query,
        @Query("apikey") String apiKey
1 usage 🚨 Navneet Mishra
@GET("top-headlines?")
Call<DataModel> categoryData(@Query("category") String category,
                              @Query("lang") String lang,
                              @Query("apikey")String apiKey);
```

We used Retrofit to build the base url and GSON Converter Factory was used to parse the JSON.

We created an instance for retrofit and used it in the activities for retrofit function calls.

Location Updates

We used Location class to access system location services, such as GPS and network-based location services.

In the code snippet, LocationManager.NETWORK_PROVIDER is used in the requestLocationUpdates method to specify that location updates should be obtained from network-based sources. This method sets the minimum time interval between location updates (500 milliseconds) and the minimum distance change (50000 meters) to trigger location updates.

Network provider typically provides location information faster than GPS but with less accuracy, making it suitable for scenarios where high accuracy is not critical, such as finding the city name for news delivery.

