Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID591103
Project Name	NewsApp
Maximum Marks	4 Marks

Technical Architecture:
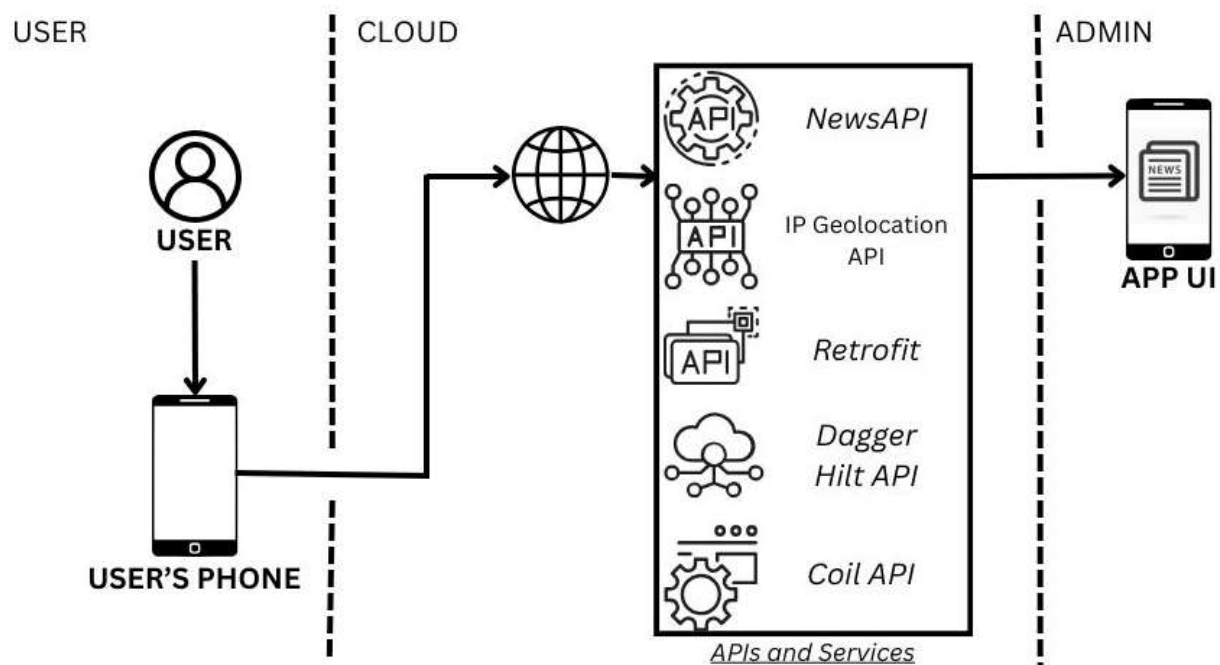
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	A mobile application in android which delivers the latest news headlines directly to the palm of your hand. The UI is seamless in its design and is enticing to use.	Kotlin
2.	File Storage	The disk space and permissions required for the app to function properly on the device.	Local Filesystem
3.	Services – 1	Delivers and displays news articles as per user request directly in the app. It also displays a list of articles by default on the home screen consisting of the latest news headlines.	News API
4.	Services – 2	IP geolocation API is a service that provides information about the geographical location of a given IP address. It can give details like the country, region, city, latitude, longitude, and more, associated with the IP address.	IP Geolocation API
5.	External API – 1	Retrofit simplifies the process of connecting to a web API by abstracting the HTTP request into a high-level interface.	Retrofit
6.	External API – 2	Dagger Hilt is a dependency injection library for Android that simplifies the process of managing dependencies in your application.	Dagger Hilt
7.	External API – 3	Coil is an open-source image loading library for Android that is designed to be fast, efficient, and easy to use. It is used in Android app development to efficiently load and display images from various sources, such as URLs, local files, or resources.	Coil

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Engaging and interactive content	The app features document downloads, and various other interactive elements.	Kotlin, Android SDK, Material Design
2.	Accessible and inclusive design	The app is designed to be accessible to users with disabilities and from diverse backgrounds.	Android Accessibility APIs, Material Design
3.	Secure data handling	The app uses industry-standard security practices to protect user data.	HTTPS encryption, data encryption at rest
4.	Sustainable business model	The app balances free and premium features to create a sustainable business model.	In-app purchases, subscription model