# **3.Android App**

The android app is developed by JAVA Programming Language.

Our android app represents a friendly main UI which include many features as providing a trusted medical consultant, medical community, Notification Emergency for several attacks, private clicnic via video call, and searching on doctors in several specialties.

The user has to create an account to grant an access to the android app features.

The info that user has to import is name, email, age, user type(doctor or patient), password, birthdate, profile picture.

User Data are uploaded to the cloud firebase and the user can retrieve their history data.

**Most important used APIs:**

* **FirebaseUI:** is an open-source library for Android that allows to quickly connect common UI elements to [Firebase](https://firebase.google.com) APIs.

- FirebaseUI is an open-source library that offers simple, customizable UI bindings on top of the core Firebase SDKs.

-has separate modules for using Firebase Cloud Firestore, Firebase Auth, and Cloud Storage.

* **FirebaseUI for Auth**: It aims to eliminate boilerplate code and promote best practices (both user experience and security) for authentication.

-A simple API is provided for drop-in user authentication which handles the flow of signing in users with email addresses and passwords, phone numbers, and federated identity providers such as Google Sign-In, and Facebook Login. It is built on top of Firebase Auth.

-FirebaseUI auth can be easily customized to fit with the rest of your app's visual style. As it is open source, you are also free to modify it to exactly fit your preferred user experience.

* **FirebaseUI for Cloud Firestore:** FirebaseUI makes it simple to bind data from Cloud Firestore to your app's UI.
* **FirebaseUI for Storage:** Cloud Storage for Firebase provides secure file uploads and downloads for your Firebase apps, regardless of network quality. You can use it to store images, audio, video, or other user-generated content. Cloud Storage is a powerful, simple, and cost-effective object storage service.
* **Maps API:** Your app can request the last known location of the user's device using the Google Play location services APIs. You are mainly interested in the actual position of the consumer, which is typically equal to the last known location of the device.

Used for locate the position of patient.

* **Glide:** Glide is a fast and efficient open source media management and image loading framework for Android that wraps media decoding, memory and disk caching, and resource pooling into a simple and easy to use interface. Glide supports fetching, decoding, and displaying video stills, images, and animated GIFs. Glide includes a flexible API that allows developers to plug in to almost any network stack. By default Glide uses a custom HttpUrlConnection based stack, but also includes utility libraries plug in to Google's Volley project or Square's OkHttp library instead.

Glide's primary focus is on making scrolling any kind of a list of images as smooth and fast as possible, but Glide is also effective for almost any case where you need to fetch, resize, and display a remote image.