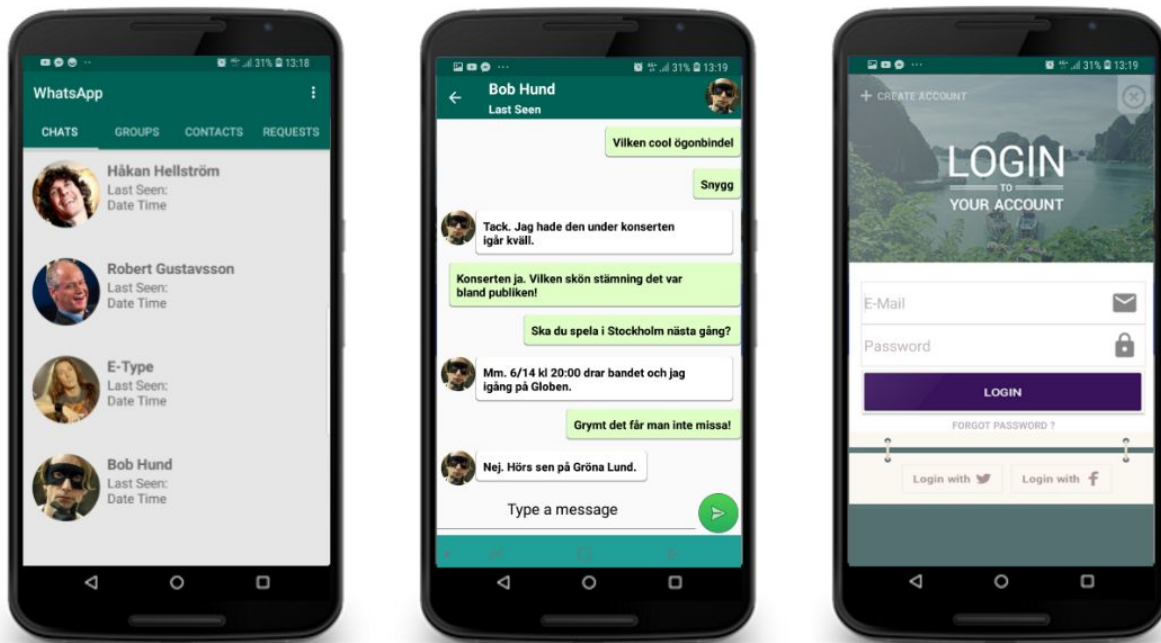


# Android Chat Application

You are supposed to make an android application that is similar to WhatsApp but has only chat functionality.



## Tools and Technologies:

Java (Programming Language)

Android Studio (Standard Editor for developing Android Applications)

Firebase(for storing and managing Data)

## Learning Resources:

### **Java:**

If you like reading stuff, <https://www.w3schools.com/java/default.asp>

If you like learning through videos,

<https://youtube.com/playlist?list=PLFE2CE09D83EE3E28>

Learn the basics of Java and Object Oriented programming(Oop) with the help of above tutorials.Following only one out of them shall suffice.

**Android:**

<https://developer.android.com/courses/fundamentals-training/toc-v2>

[https://youtube.com/playlist?list=PLu0W\\_9lI9aiL0kysYIfSOUgY5rNIOhUd](https://youtube.com/playlist?list=PLu0W_9lI9aiL0kysYIfSOUgY5rNIOhUd)

**Firestore:**

<https://codelabs.developers.google.com/codelabs/firebase-android/?hl=es#0>

**How to get started:**

To start working with java, you'll first need to install JDK (Java Development Kit) from [here](#).

Thereafter, to start developing apps, Android Studio will be needed. You can download the latest version of Android Studio from [here](#).

**How to proceed ?****Beginner:**

Add user Authentication using Firebase authentication and design a basic app having just private chat feature.(one-to-one chat) Use Firebase Realtime Database for storing chats.

**Intermediate:**

Add functionality of sending images, use Firebase storage for storing images. Also add group chat functionality and notification popup on receiving a new message.

**Advanced:**

Feature of finding new friends, confirming chat requests from unknown contacts and all cool things that you can think of for a chat Application. Try to be as creative as possible !

Feel free to contact your mentors if you get stuck in any of these steps or want more clarification. We too were once a beginner, so we know how it feels.

## **What will you learn from this project ?**

Basics of Java Programming language

Developing mobile applications through Java

Developing cross platform applications with the help of Firebase

Firebase is used not only in Android but in web-applications as well. So if you are developing both android and Web versions of some application, there too Firebase can serve as common database for Android and Web App thereby simplifying a lot of things.

## **Why Android ?**

Today, most of the common people prefer accessing websites and services through mobile phones only instead of keeping a huge screen with them all the time. That is why more and more companies and start-ups are turning towards developing Mobile apps(apart from websites) in order to make their services/application easily available to general public.

Thus, learning Android Development is quite beneficial if as a Developer, you want to increase the reach of your applications and projects. As a student Developer, you can upload your self-made apps on Google Play Store(You just need to pay for one-time subscription and then you can upload as many apps as you want) and start earning money out of it(through advertisements and all)

You can read this [blog](#) to know more about the increasing demand of Android Developers in India.

## **Mentors:**

Adit Shah: 9723285800

Vyom Saraf: 6358077665

Deven Vachhani: 9824978996

Feel free to contact us for any and every project related queries !