VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM 590014

Mobile Application Development Report on

"Chat App"

By

MANISH B R (1BM15CS056) SANATH KUMAR M (1BM17CS087)

M SUFIYAN AMAN (1BM17CS049) ROHITH Y V (1BM17CS080)

Under the Guidance of

Namratha M

Assistant Professor, Department of CSE

BMS College of Engineering

Mobile Application Development carried out at

Department of Computer Science and Engineering

BMS College of Engineering

(Autonomous college under VTU)

P.O. Box No.: 1908, Bull Temple Road, Bangalore-560 019

January-May 2020

BMS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the mobile application development titled "Online Course Registration" has been carried out by MANISH B R (1BM15CS056), SANATH KUMAR M (1BM17CS087), M SUFIYAN AMAN (1BM17CS049), ROHITH Y V (1BM17CS080) during the academic year 2019-2020.

Signature of the guide
Namratha M
Assistant Professor
Department of Computer Science and Engineering
BMS College of Engineering, Bangalore

BMS COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We, MANISH B R (1BM15CS056), SANATH KUMAR M(1BM17CS087), M SUFIYAN AMAN (1BM17CS049), ROHITH Y V (1BM17CS080), students of 6th Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bangalore, hereby declare that, this mobile application development work entitled "Online Course Registration" has been carried out by us under the guidance of Namratha M, Assistant Professor, Department of CSE, BMS College of Engineering, Bangalore during the academic semester January-May 2020

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

MANISH B R (1BM15CS056)

SANATH KUMAR M(1BM17CS087)

M SUFIYAN AMAN (1BM17CS049)

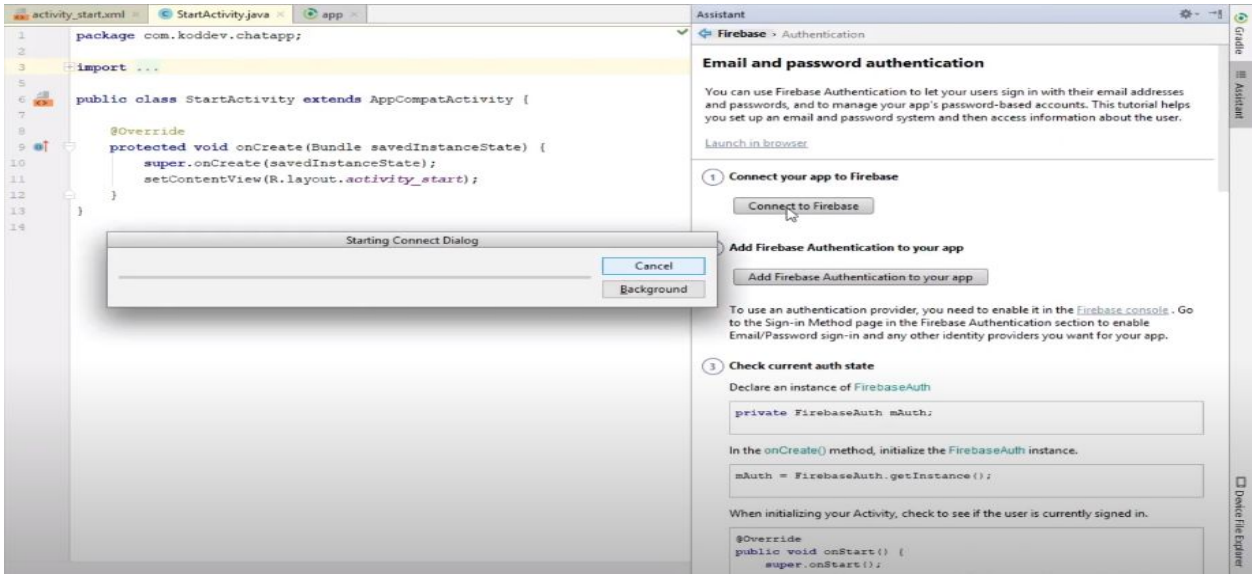
ROHITH Y V (1BM17CS080)

1. Introduction

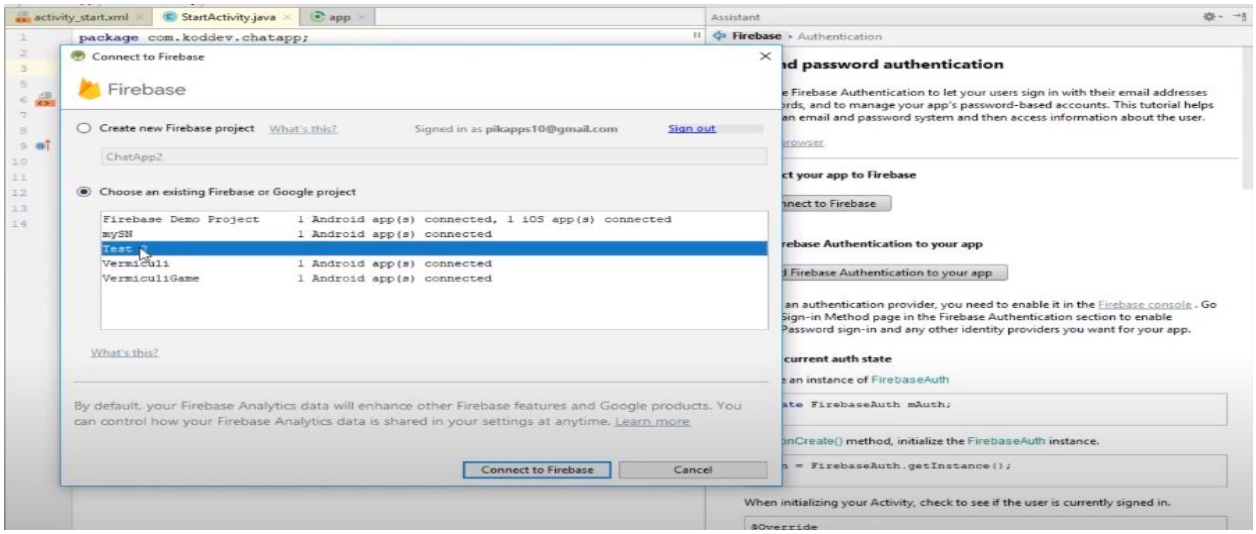
Mobile application development for “Chat App”

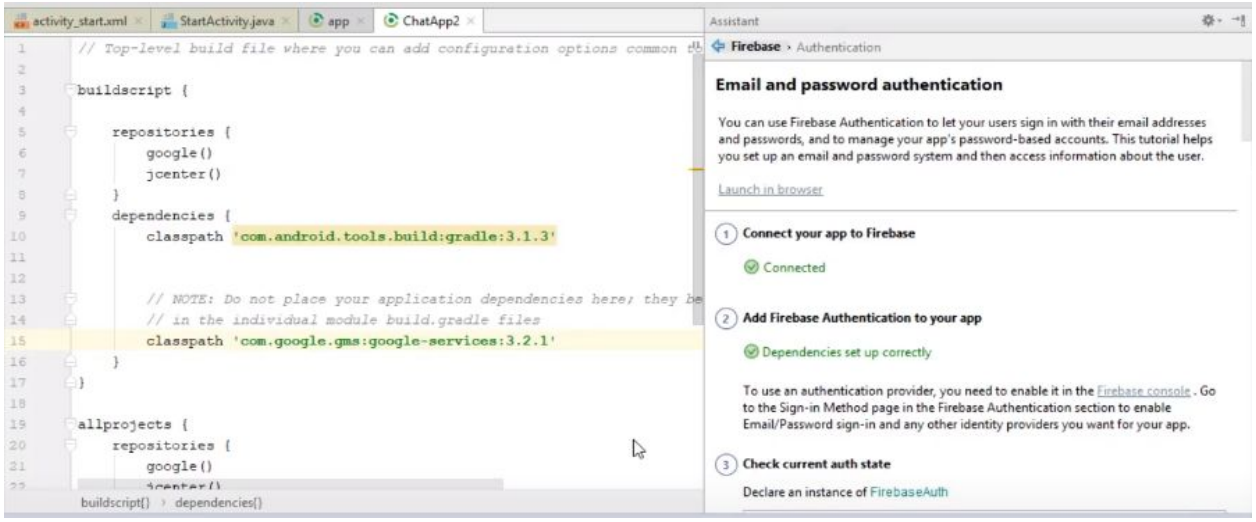
1. 1 Chat App with Firebase Part 1 - Setting Up The Project

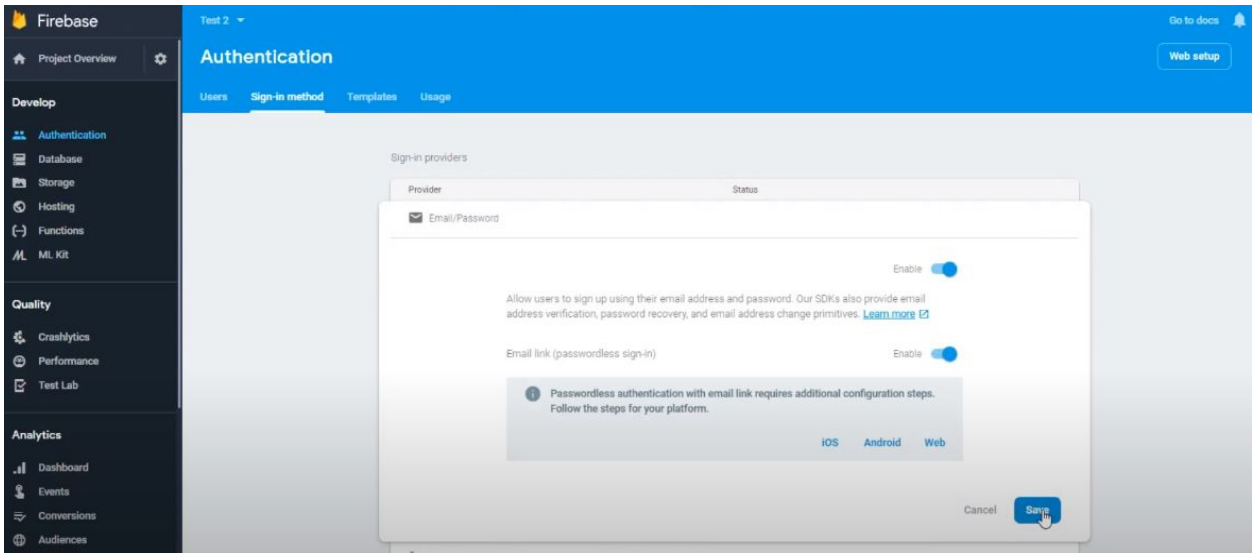
1. create a new project and MainActivity rename to StartActivity
2. connect with firebase

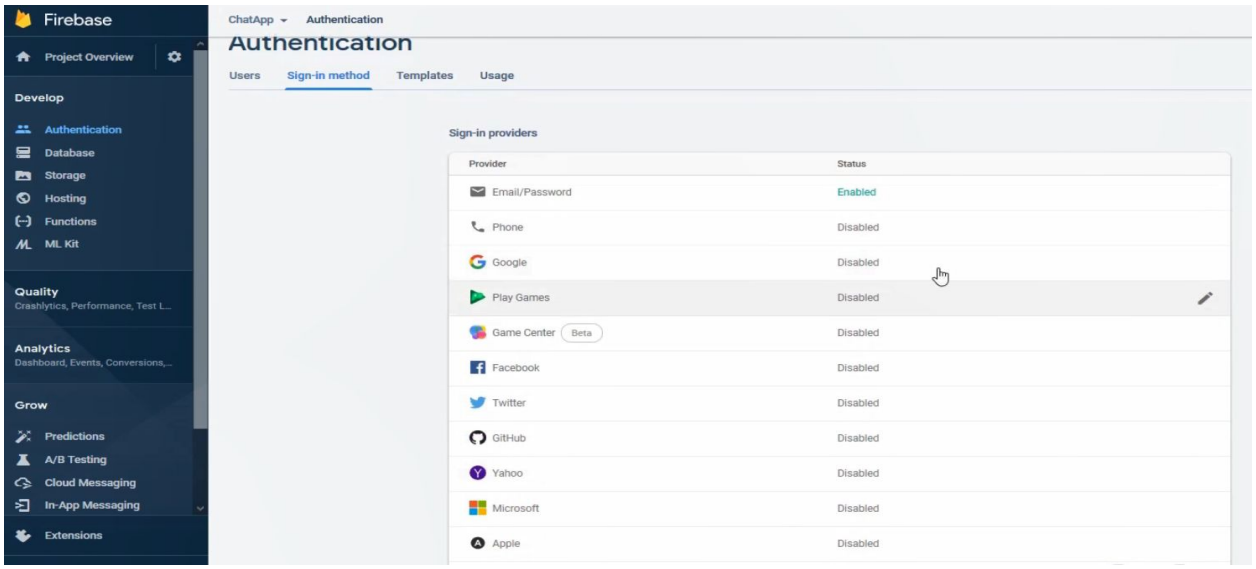


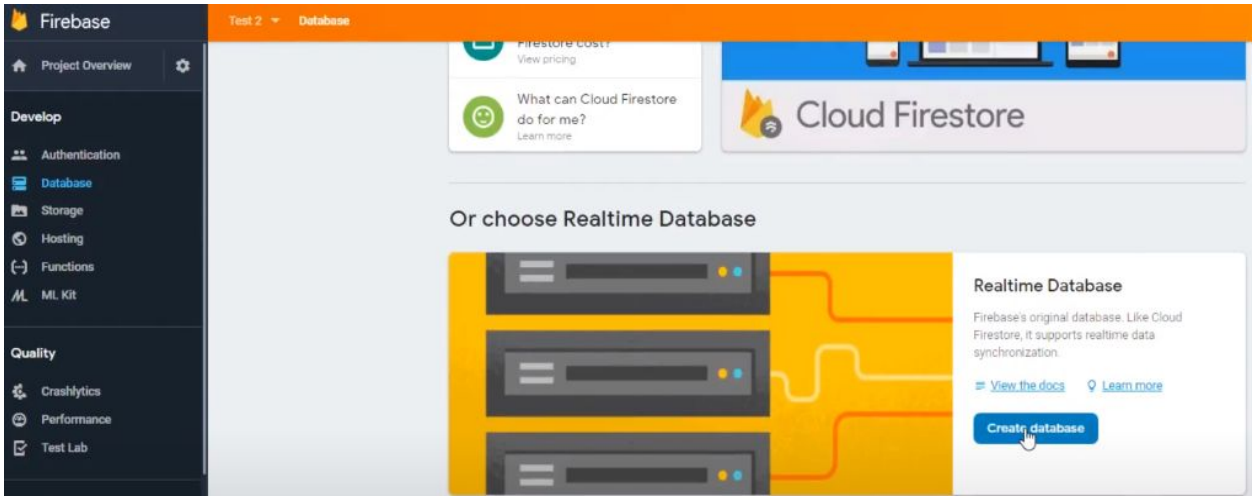
3. create a new project to firebase

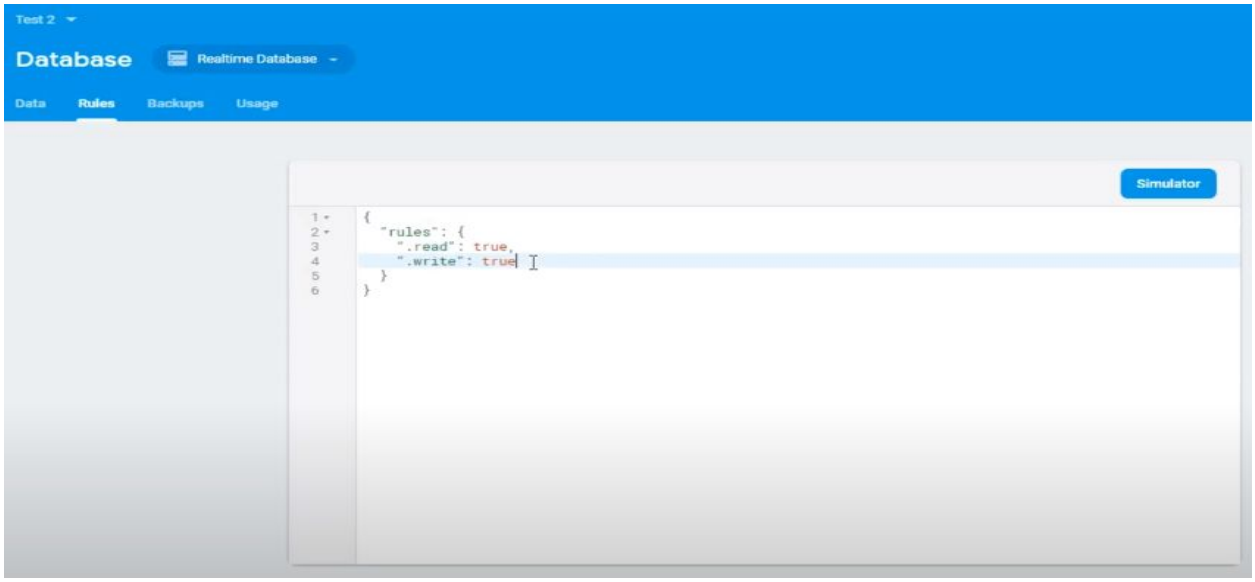



activity_start.xml
StartActivity.java
app
ChatApp2
// Top-level build file where you can add configuration options common t
buildscript {
repositories {
google()
jcenter()
}
dependencies {
classpath 'com.android.tools.build:gradle:3.1.3'
// NOTE: Do not place your application dependencies here; they be
// in the individual module build.gradle files
classpath 'com.google.gms:google-services:3.2.1'
}
}
allprojects {
repositories {
google()
buildscript{} › dependencies{}
Assistant
Firebase › Authentication
Email and password authentication
You can use Firebase Authentication to let your users sign in with their email addresses and passwords, and to manage your app's password-based accounts. This tutorial helps you set up an email and password system and then access information about the user.
Launch in browser
1 Connect your app to Firebase
Connected
2 Add Firebase Authentication to your app
Dependencies set up correctly
To use an authentication provider, you need to enable it in the Firebase console. Go to the Sign-in Method page in the Firebase Authentication section to enable Email/Password sign-in and any other identity providers you want for your app.
3 Check current auth state
Declare an instance of FirebaseAuth


Firebase
Project Overview
Develop
Authentication
Database
Storage
Hosting
Functions
ML Kit
Quality
Crashlytics
Performance
Test Lab
Analytics
Dashboard
Events
Conversions
Audiences
Test 2
Go to docs
Authentication
Web setup
Users
Sign-in method
Templates
Usage
Sign-in providers
Provider
Status
Email/Password
Enable
Allow users to sign up using their email address and password. Our SDKs also provide email address verification, password recovery, and email address change primitives. Learn more
Email link (passwordless sign-in)
Enable
Passwordless authentication with email link requires additional configuration steps. Follow the steps for your platform.
iOS
Android
Web
Cancel
Save


Firebase
Project Overview
Develop
Authentication
Database
Storage
Hosting
Functions
ML Kit
Quality
Crashlytics, Performance, Test L...
Analytics
Dashboard, Events, Conversions,...
Grow
Predictions
A/B Testing
Cloud Messaging
In-App Messaging
Extensions
ChatApp
Authentication
Authentication
Users
Sign-in method
Templates
Usage
Sign-in providers
Provider
Status
Email/Password
Enabled
Phone
Disabled
Google
Disabled
Play Games
Disabled
Game Center
Beta
Disabled
Facebook
Disabled
Twitter
Disabled
GitHub
Disabled
Yahoo
Disabled
Microsoft
Disabled
Apple
Disabled

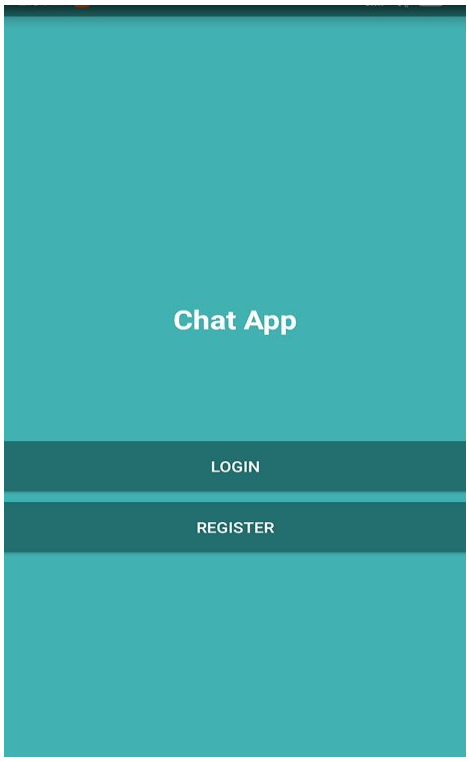

Firebase
Test 2
Database
Project Overview
Develop
Authentication
Database
Storage
Hosting
Functions
ML Kit
Quality
Crashlytics
Performance
Test Lab
What can Cloud Firestore do for me?
Learn more
Cloud Firestore
Or choose Realtime Database
Realtime Database
Firebase's original database. Like Cloud Firestore, it supports realtime data synchronization.
View the docs
Learn more
Create database


Test 2
Database
Realtime Database
Data
Rules
Backups
Usage
Simulator
{
"rules": {
".read": true,
".write": true
}
}

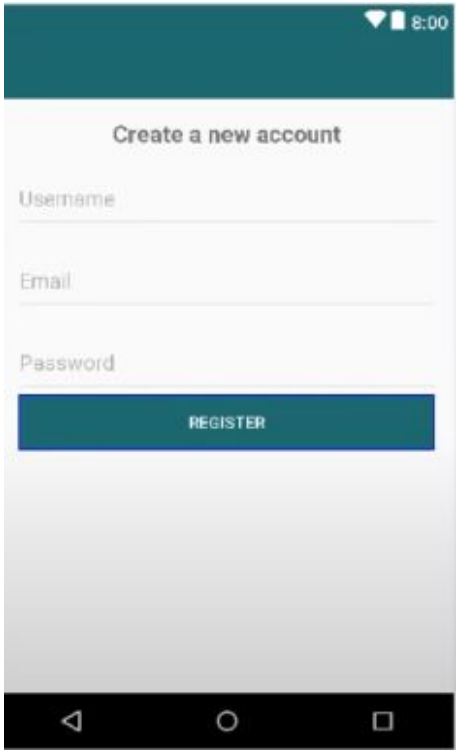
1. 2 Chat App with Firebase Part 2 - Authentication with Email and Password

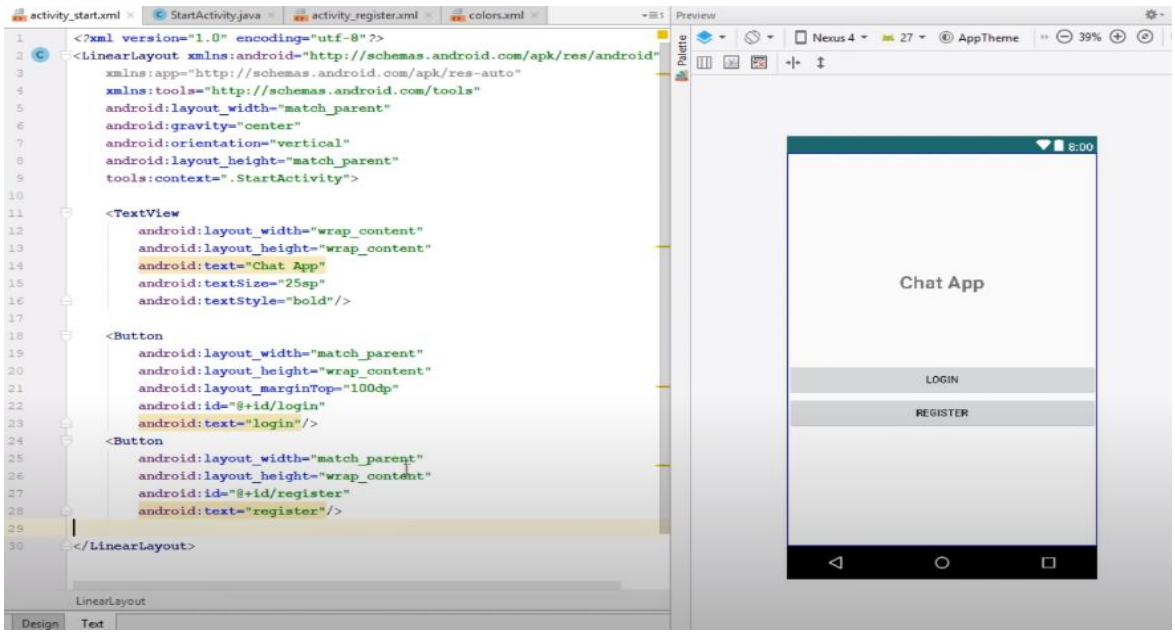
1. create authentication with email and password
2. first create RegisterActivity

activity_start.xml

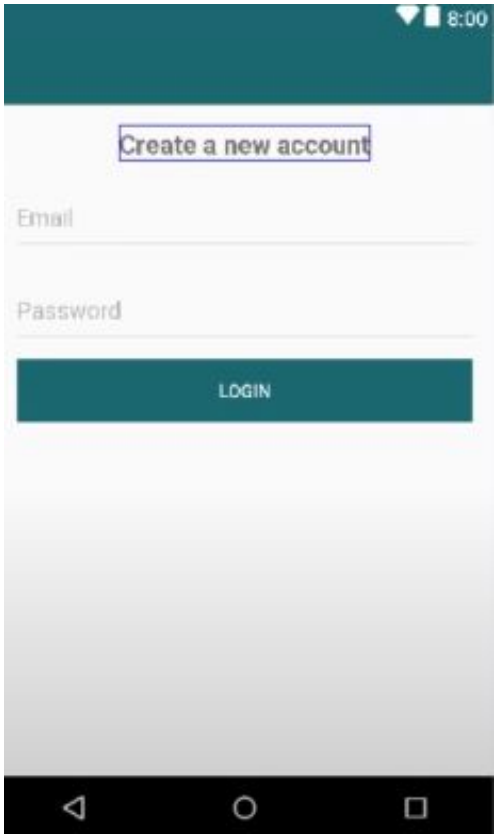


activity_register.xml

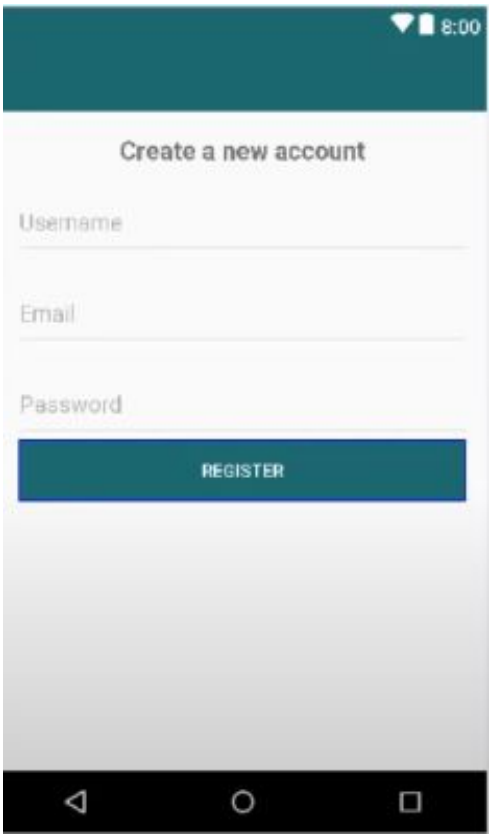


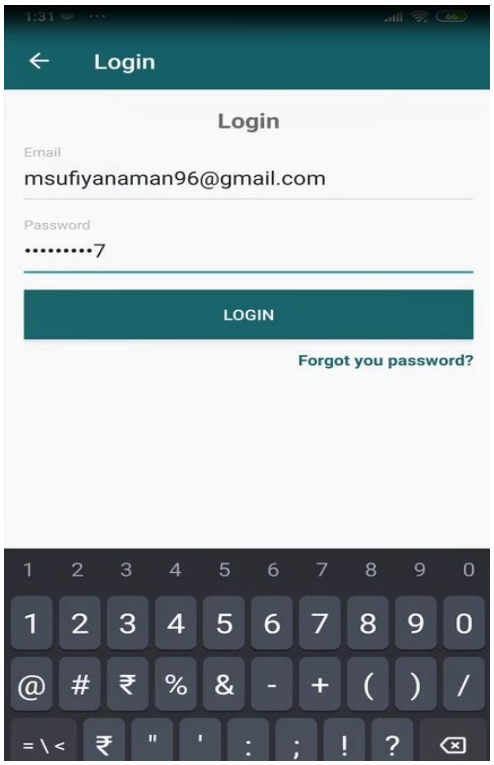


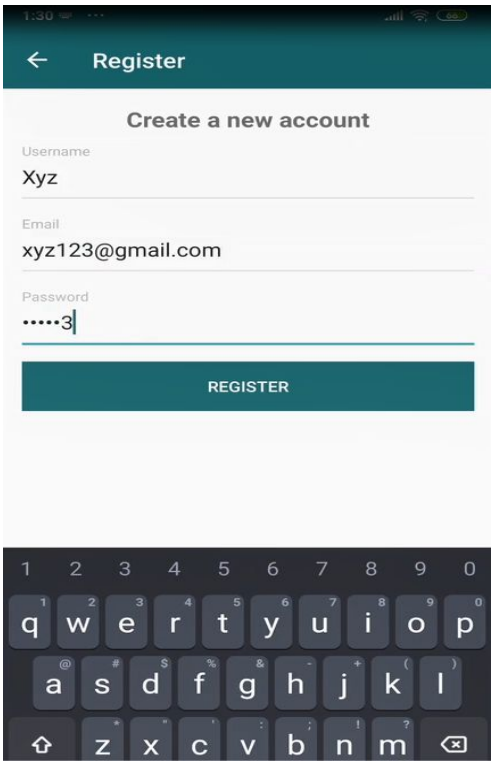
activity_login.xml



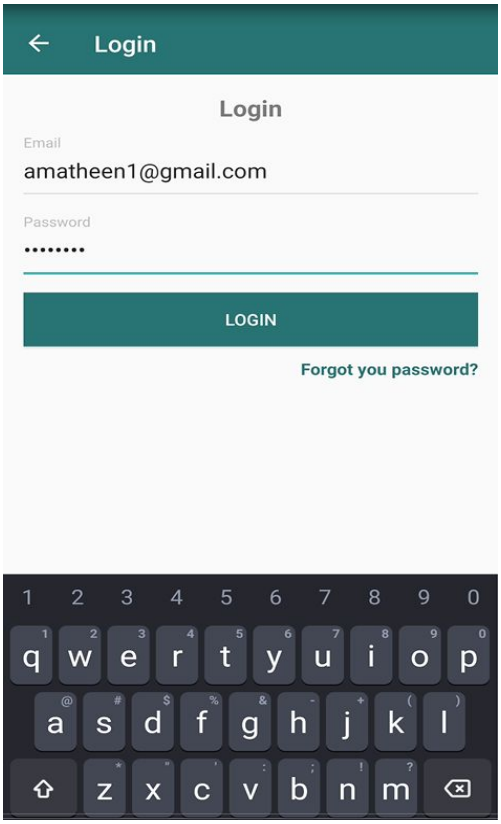
activity_register.xml

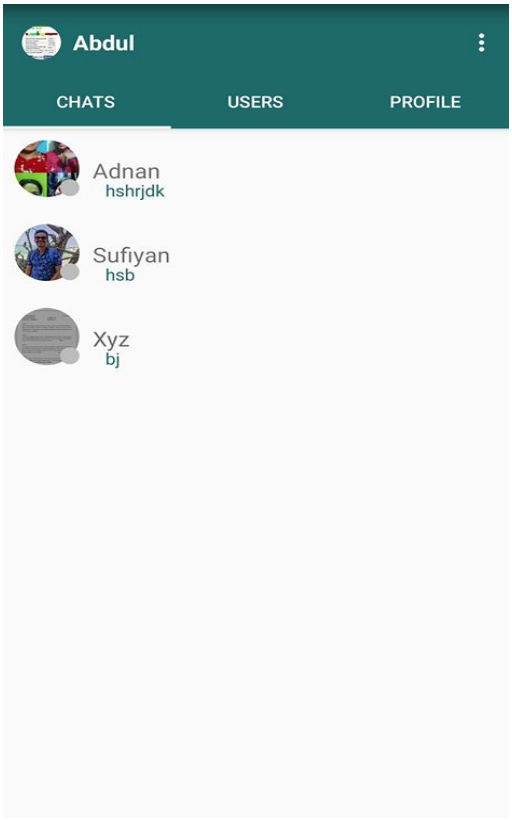


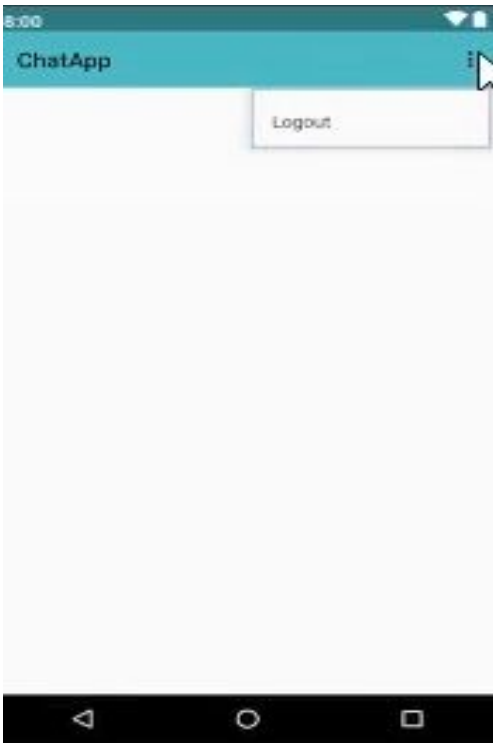


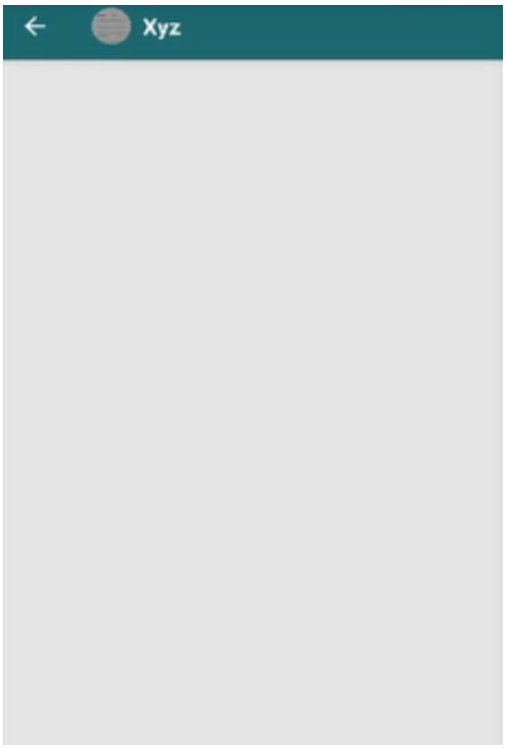


1. 3 Chat App with Firebase Part 3 - User Information, AutoLogin and Logout

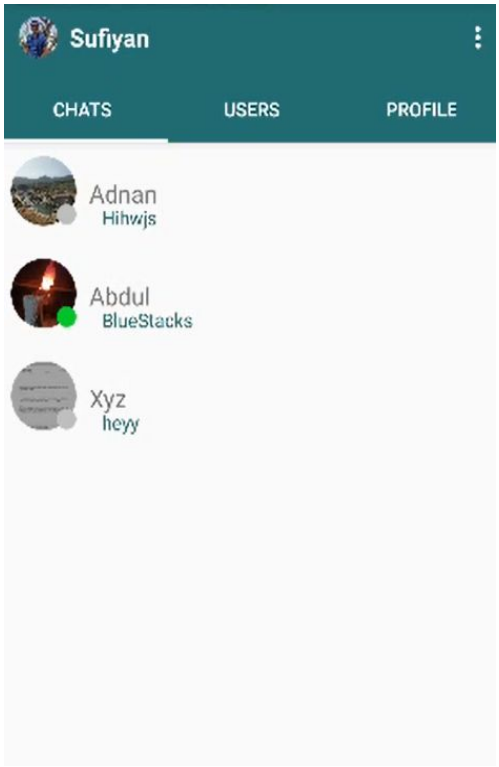


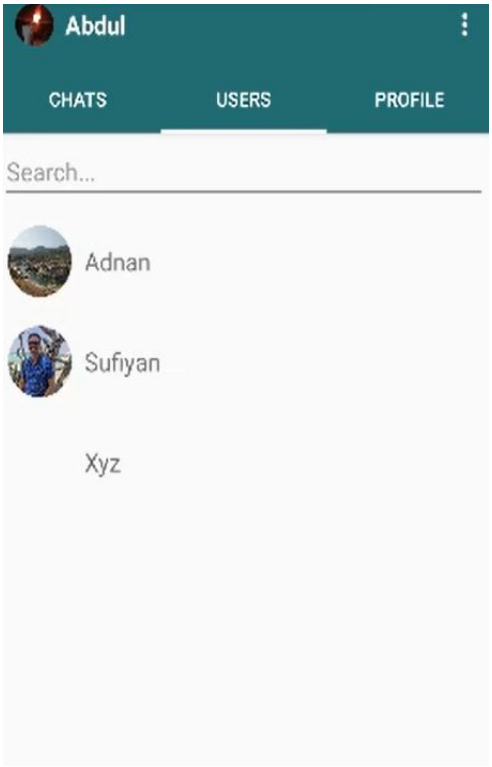






1. 4 **Chat App with Firebase Part 4 - TabLayout and ViewPager with Fragments - Display chats, users and profile**

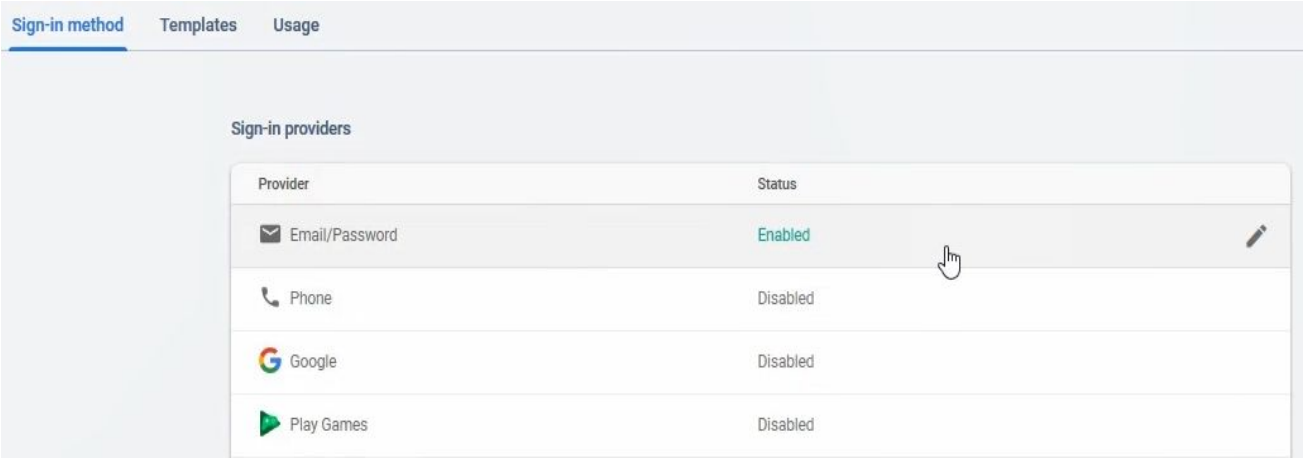


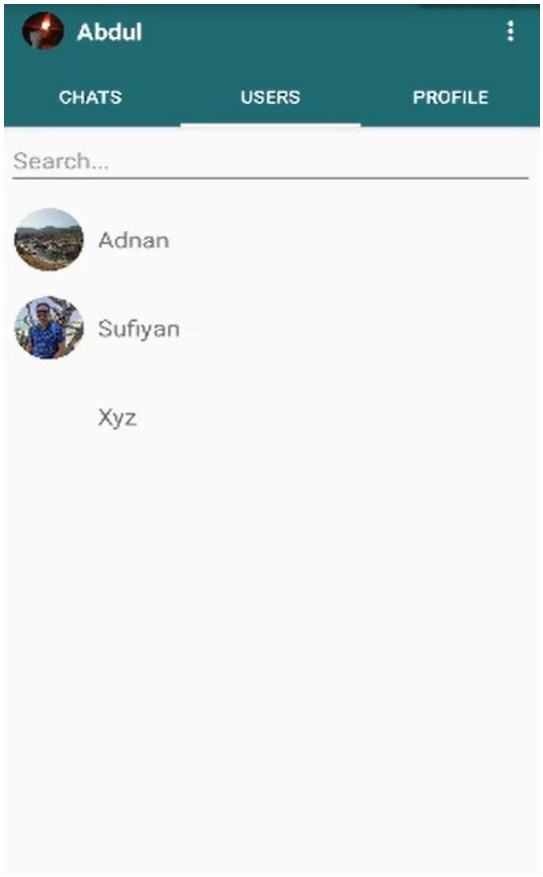


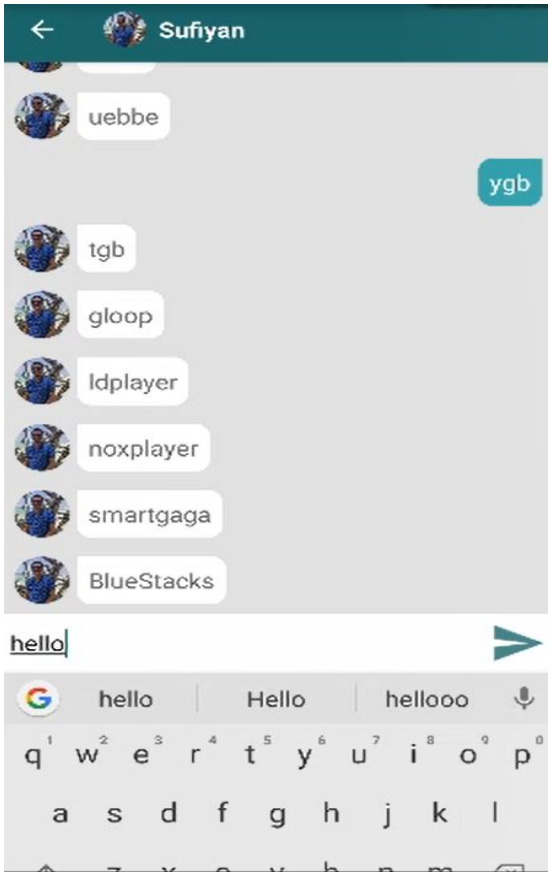
2. 1 Chat App with Firebase Part 5 - Getting Ready to Chat

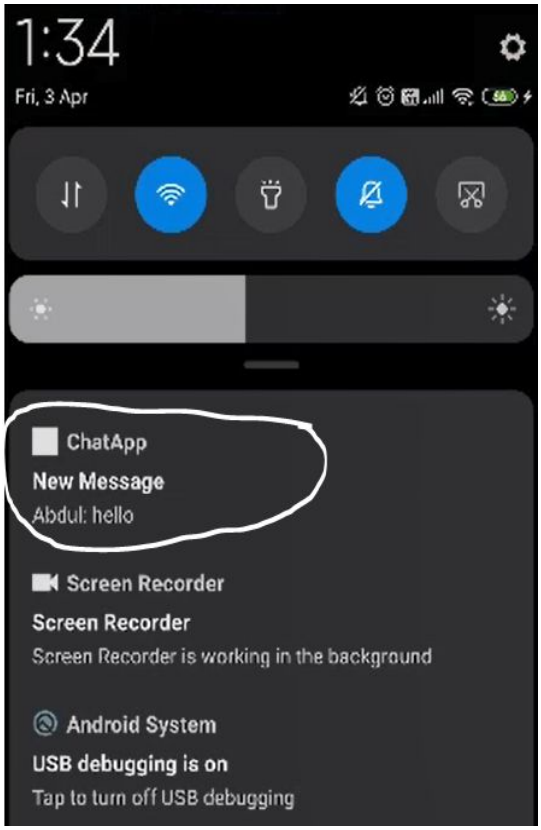
1. Send a message to a specific user and display messages , notifications.

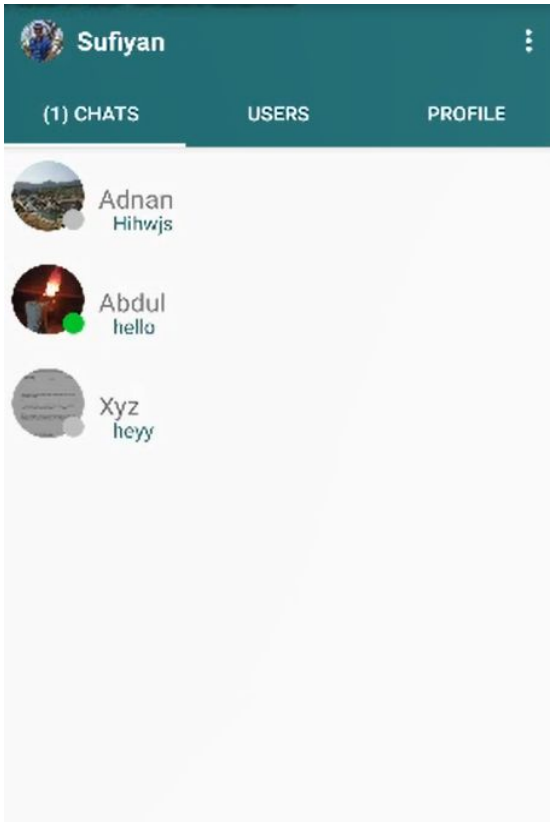
Search by email address, phone number, or user UID
Add user
Identifier
Providers
Created
Signed In
User UID
zaki.adnan6@gmail.com
Apr 2, 2020
Apr 2, 2020
Gr0NP6otUdcX4qRzR1BpvCkuyDs1
msufiyanaman96@gmail.com
Apr 2, 2020
Apr 3, 2020
KQ9G71nmxDbTPlAZgMsn7o8zP...
amatheen1@gmail.com
Apr 1, 2020
Apr 3, 2020
ZuElyum0WwRz0XCM87ipPRG1e2...
Rows per page: 50
1-3 of 3

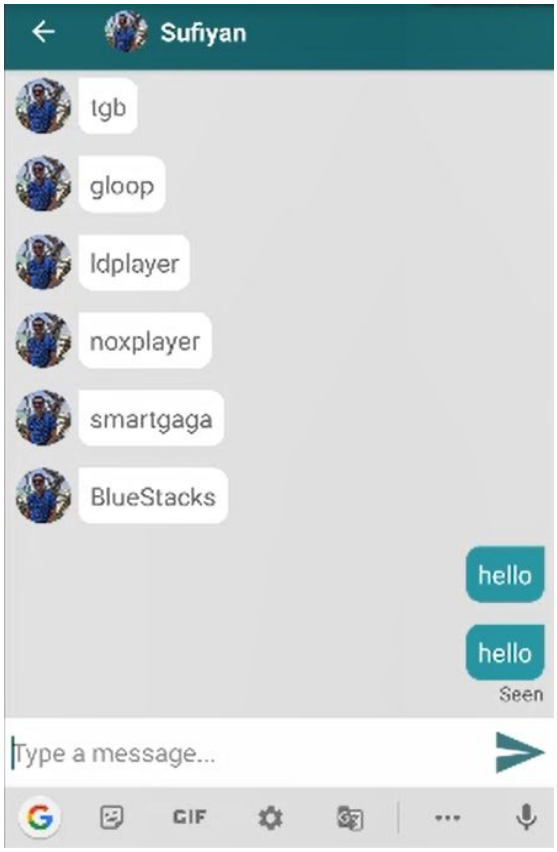

Sign-in method
Templates
Usage
Sign-in providers
Provider
Status
Email/Password
Enabled
Phone
Disabled
Google
Disabled
Play Games
Disabled

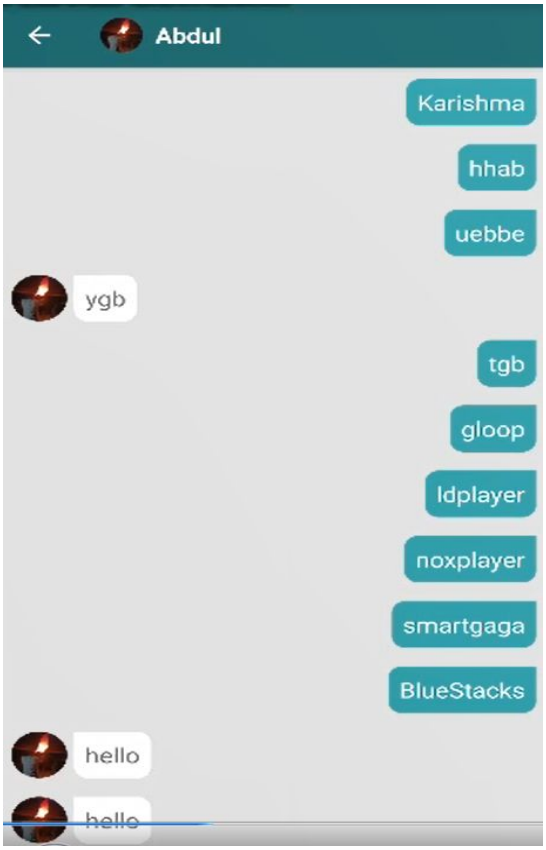

Abdul
CHATS
USERS
PROFILE
Search...
Adnan
Sufiyan
Xyz

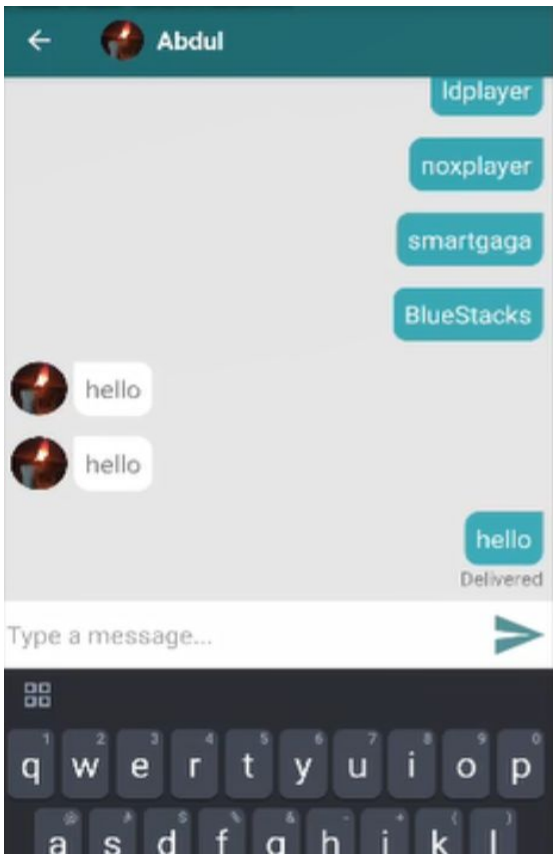

Sufiyan
uebbe
ygb
tgb
gloop
ldplayer
noxplayer
smartgaga
BlueStacks
hello
hello
Hello
hellooo

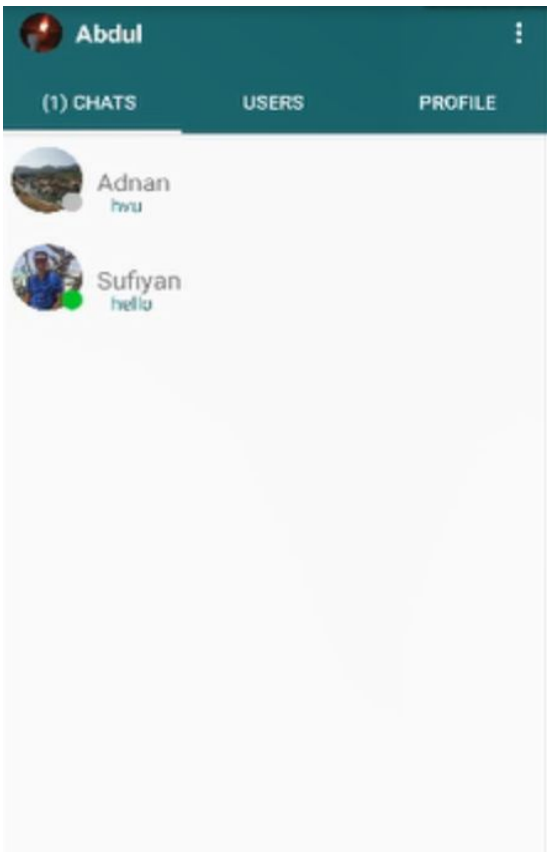

1:34
Fri, 3 Apr
ChatApp
New Message
Abdul: hello
Screen Recorder
Screen Recorder
Screen Recorder is working in the background
Android System
USB debugging is on
Tap to turn off USB debugging


Sufiyan
(1) CHATS
USERS
PROFILE
Adnan
Hihwjs
Abdul
hello
Xyz
heyy

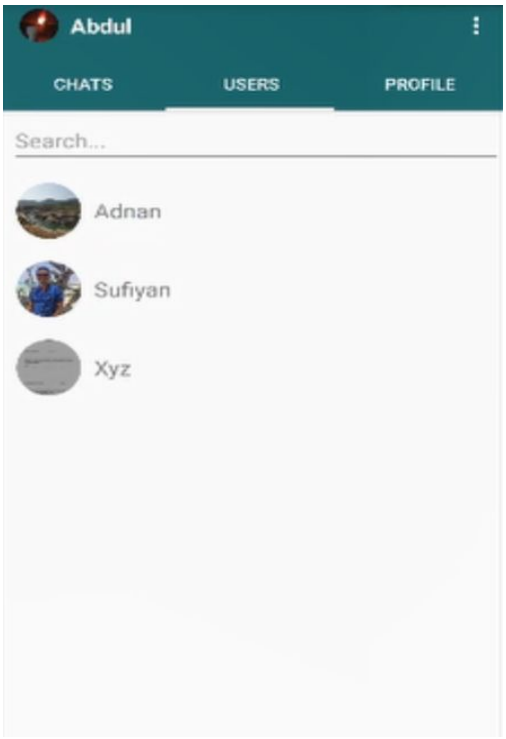

Sufiyan
tgb
gloop
ldplayer
noxplayer
smartgaga
BlueStacks
hello
hello
Seen
Type a message...
GIF


Abdul
Karishma
hhab
uebbe
ygb
tgb
gloop
ldplayer
noxplayer
smartgaga
BlueStacks
hello
hello


Abdul
ldplayer
noxplayer
smartgaga
BlueStacks
hello
hello
hello
Delivered
Type a message...


Abdul
(1) CHATS
USERS
PROFILE
Adnan
hvu
Sufiyan
hello

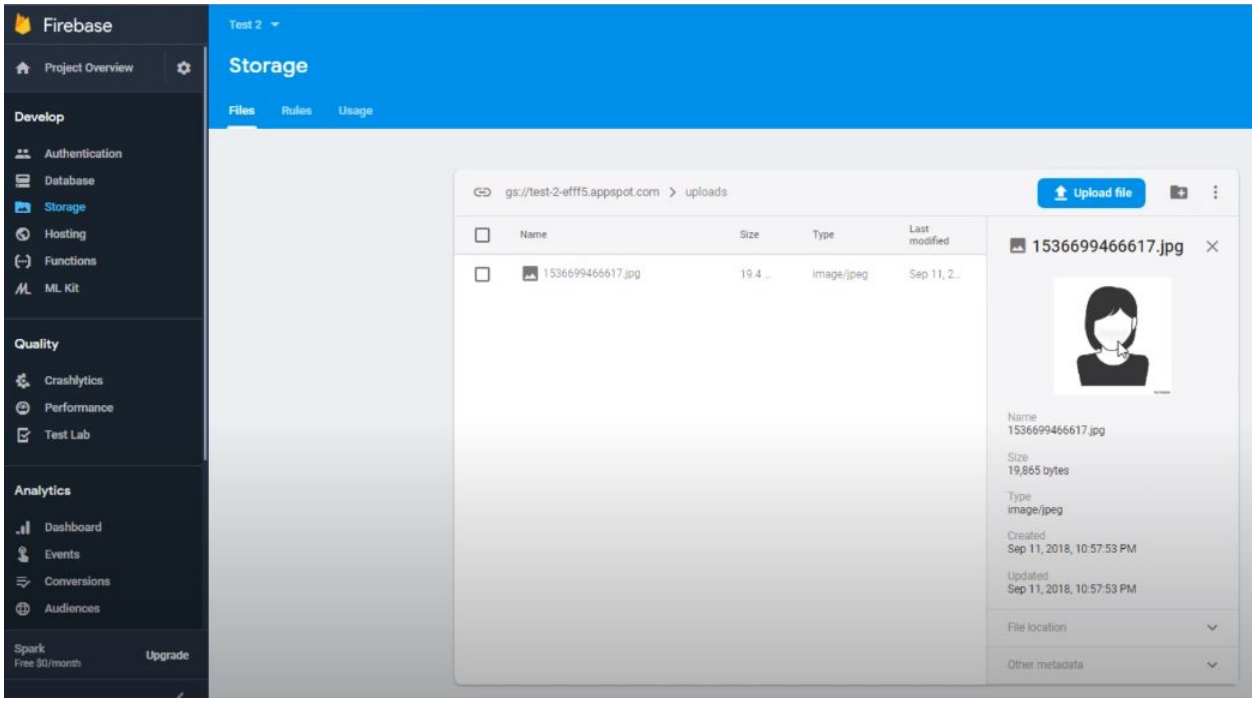
2. 2 Chat App with Firebase Part 6 - Display Users with whom you have Messages.



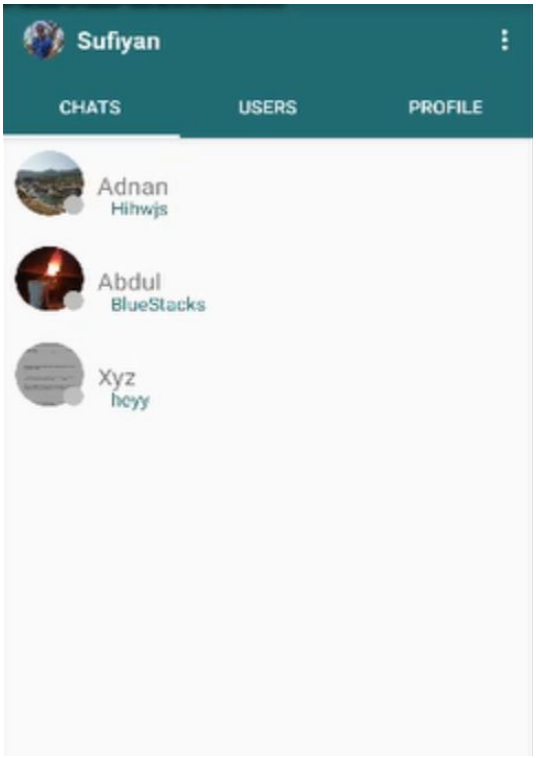
2. 3 Chat App with Firebase Part 7 - User Profile

1. create new fragment and add to TabLayout

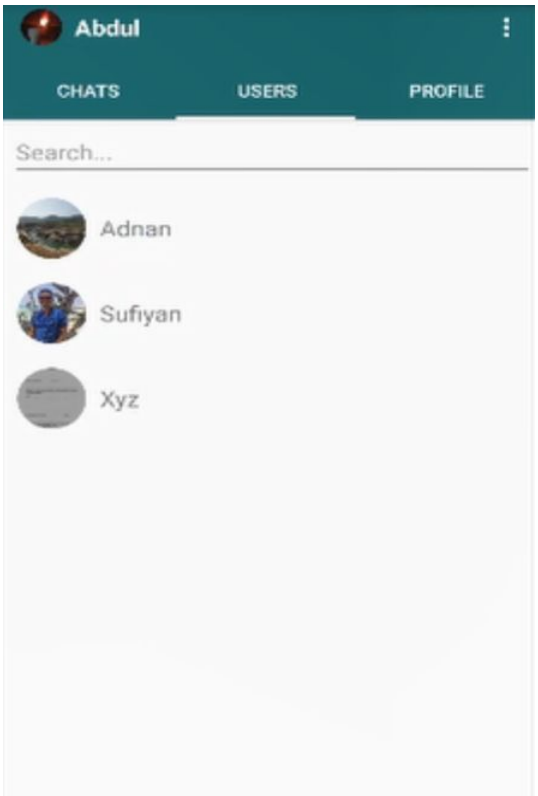
2. 4 Chat App with Firebase Part 8 - Change Profile Photo



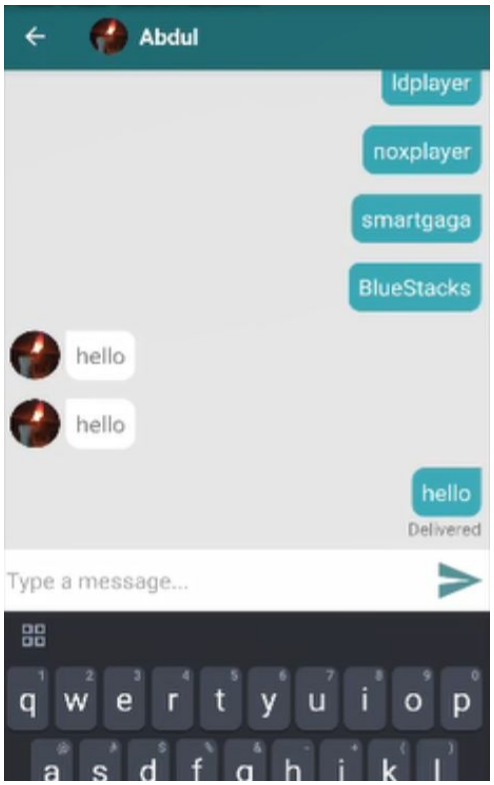
3. 1 Chat App with Firebase Part 9 - User Status Online/Offline

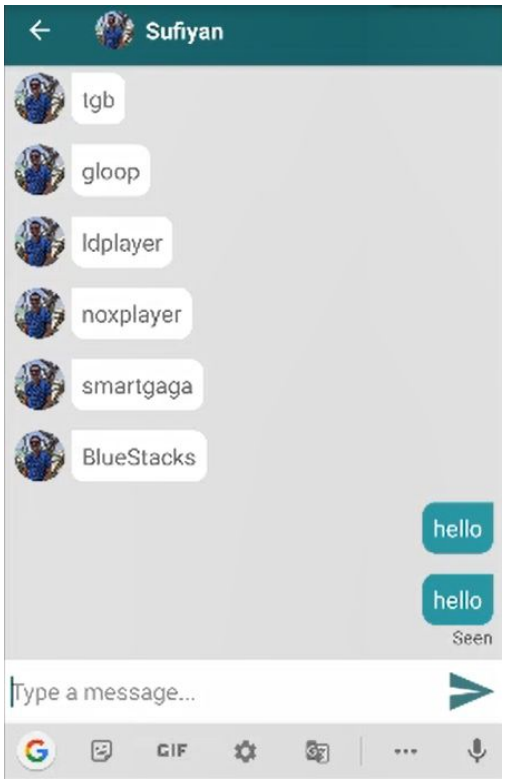


3. 2 Chat App with Firebase Part 10 - how to search Users in the UserFragment

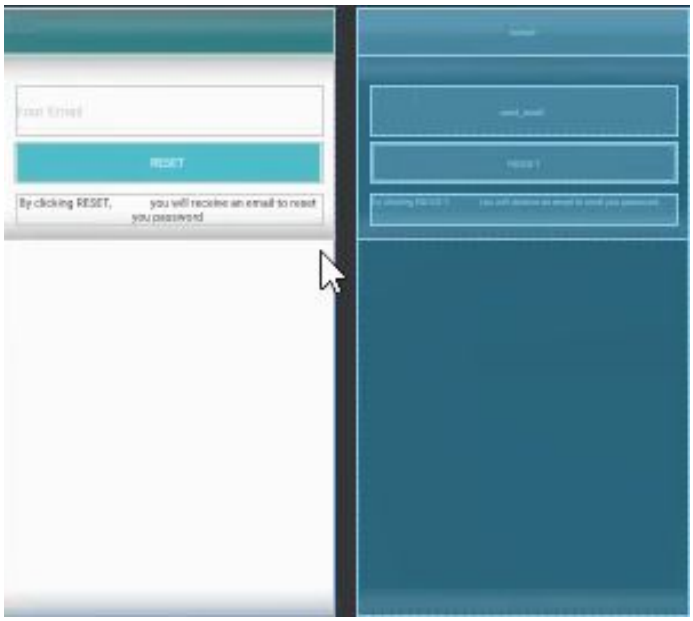


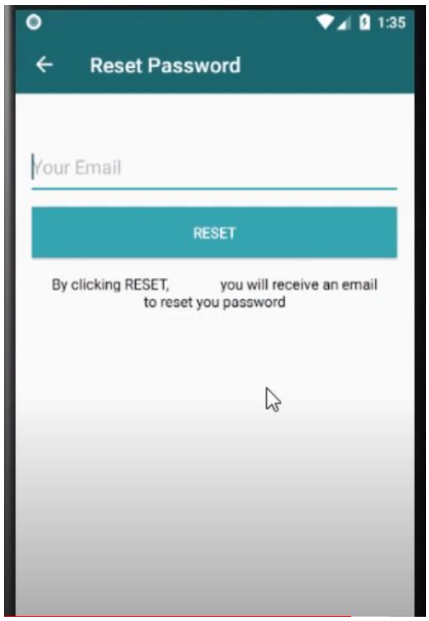
3. 3 Chat App with Firebase Part 11 - Check if User has Seen Message



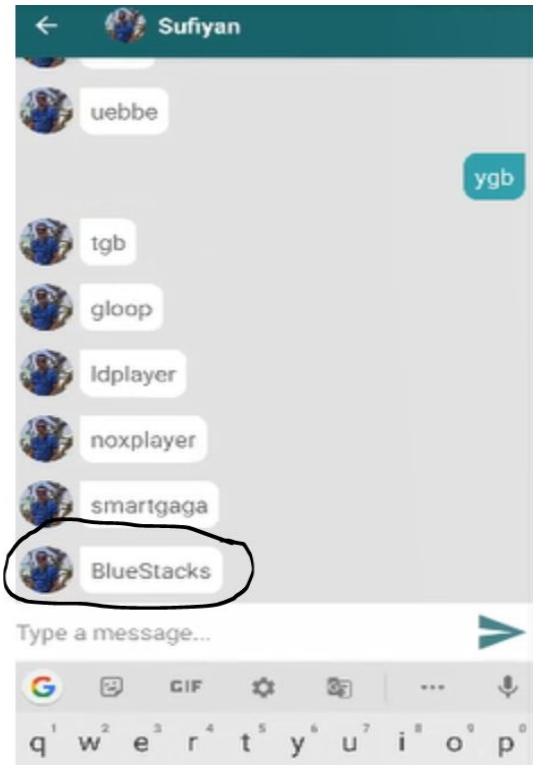


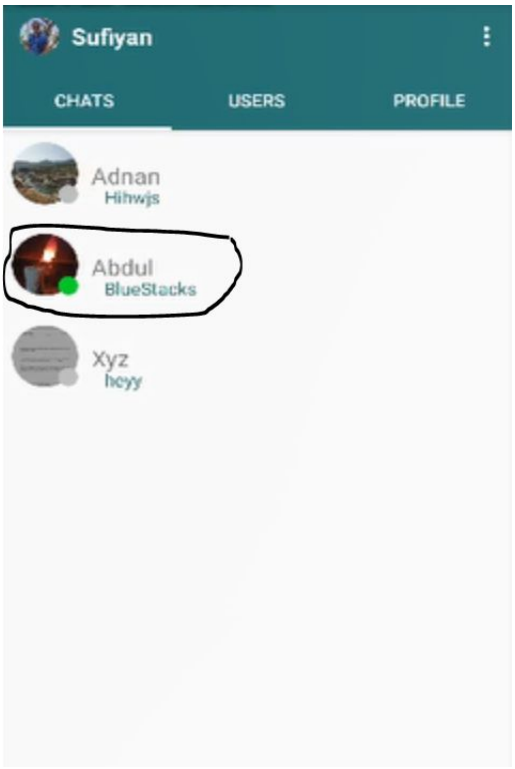
3. 4 Chat App with Firebase Part 12 - Forgot/Reset your Password



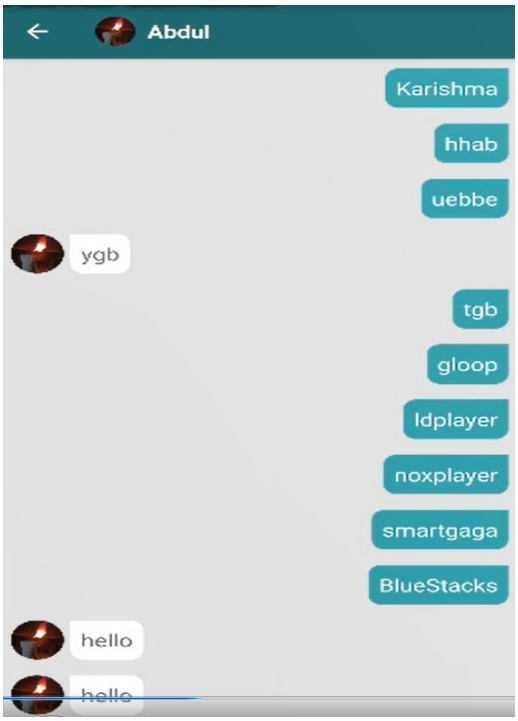


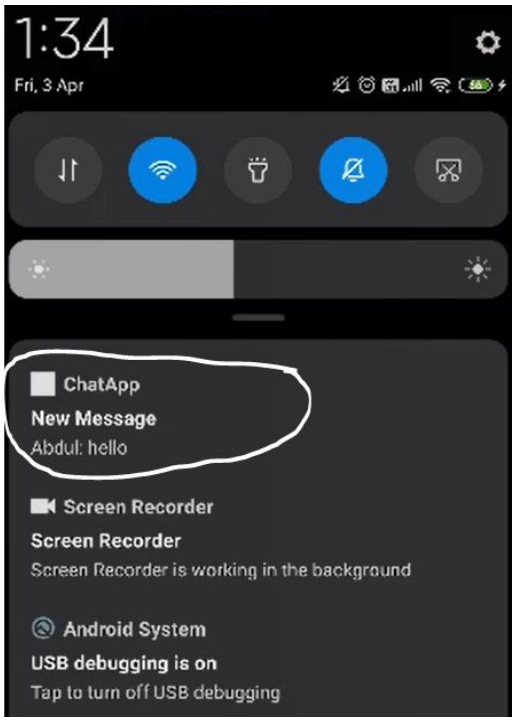
4. 1 Chat App with Firebase Part 13 - Display Last Message from Chat





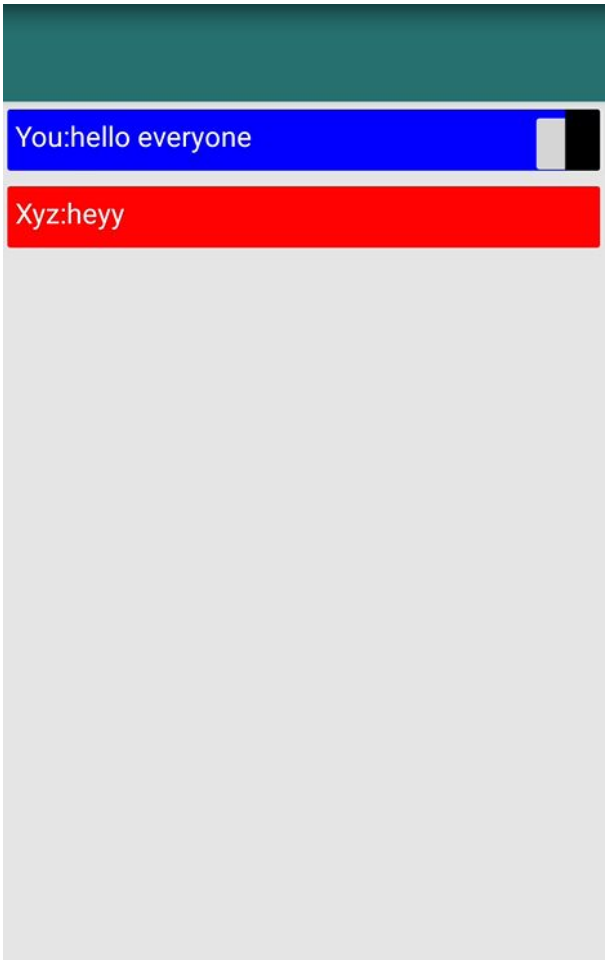
4. 2 Chat App with Firebase Part 14 - Sending Notifications

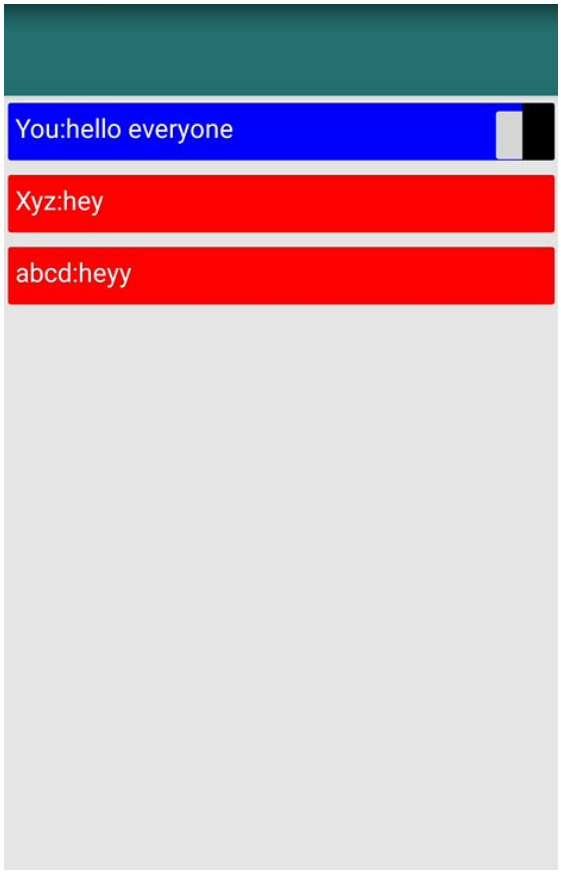


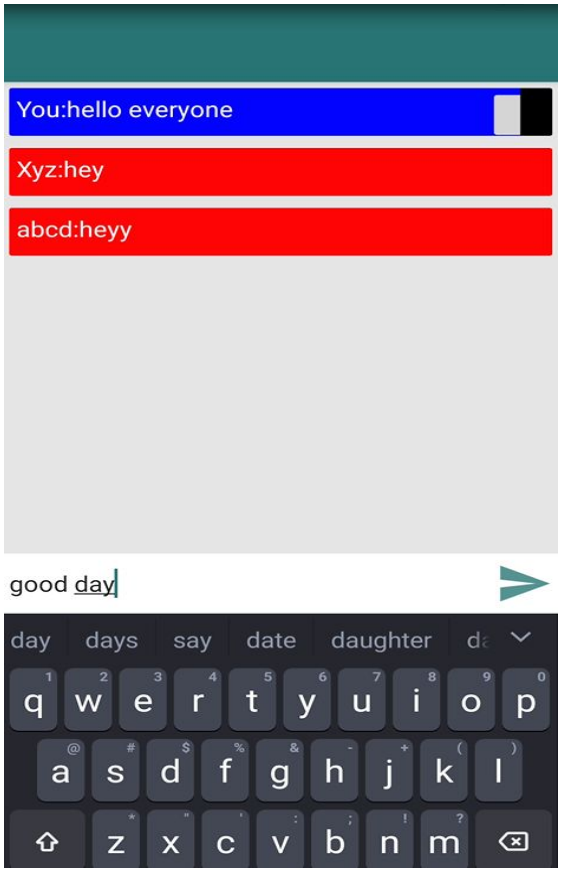


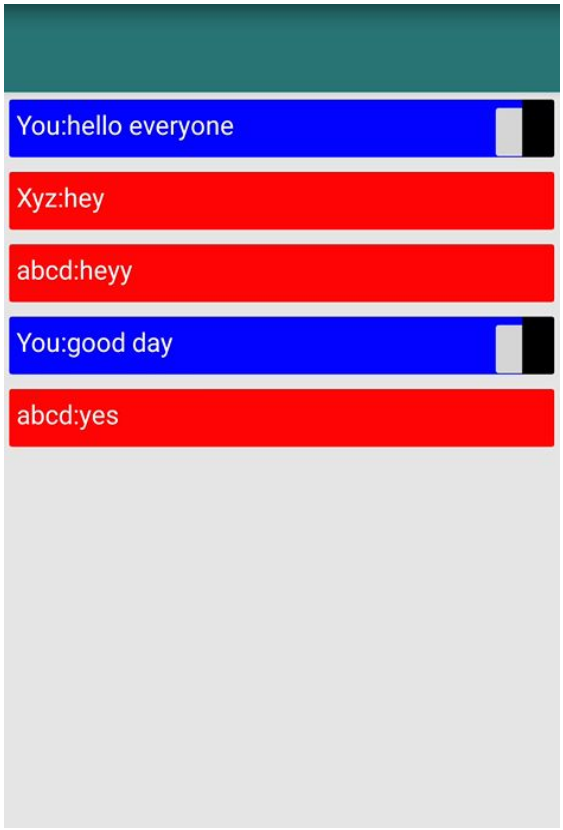
4. 2 Chat App with Firebase Part 15 - Group Chat

Group Chat is different than private 1-to-1 chatting because of the conversations being open and visible to all team members. This means that any group member can join the conversation, share ideas and link with your team in real-time.




You:hello everyone
Xyz:hey
abcd:heyy


You:hello everyone
Xyz:hey
abcd:heyy
good day
day
days
say
date
daughter


You:hello everyone
Xyz:hey
abcd:heyy
You:good day
abcd:yes