



ChatConnect-A-Real-Time Chat and Communication App

Description:

ChatConnect is a modern, feature-rich communication app designed to enable seamless, real-time interactions. Built for efficiency and user convenience, it provides a secure, engaging platform for personal and professional communication. Whether you're connecting with family, friends, or colleagues, ChatConnect is your ultimate hub for staying connected.

Key Features

1. Instant Messaging:

Send and receive messages in real-time with a fast, reliable chat experience.

2. Group Chats:

Create and manage group conversations with advanced controls for admins and members.

3. Voice and Video Calls:

High-quality one-on-one and group calls for a truly personal connection.

4. Media Sharing:

Share photos, videos, files, and documents effortlessly within chats.

5. Customizable Themes:

Personalize the app with light, dark, and custom themes to match your style.

6. End-to-End Encryption:

Ensures your conversations and data are safe and private.

7.Push Notifications:

Stay updated with instant notifications for new messages and calls.

8.Multi-Device Sync:

Access your chats seamlessly across devices with automatic synchronization.

9.Offline Mode:

Compose and queue messages even when offline, and they'll send when you reconnect.

10.Search and Filters:

Quickly locate messages, contacts, and shared media with robust search tools.

MainActivity.java

package com.av.avmessenger;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.annotation.SuppressLint;
import android.app.Dialog;
import android.content.Intent;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

```
import java.util.ArrayList;

public class MainActivity extends AppCompatActivity{

    FirebaseAuth auth;
    RecyclerView mainUserRecyclerView;
    UserAdpter adapter;
    FirebaseDatabase database;
    ArrayList<Users> usersArrayList;
    ImageView imglogout;
    ImageView cumbut,setbut;

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        getSupportActionBar().hide();

        database=FirebaseDatabase.getInstance();
        auth = FirebaseAuth.getInstance();
        cumbut = findViewById(R.id.camBut);
        setbut = findViewById(R.id.settingBut);
    }
}
```



```
DatabaseReference reference = database.getReference().child("user");
```

```
usersArrayList = new ArrayList<>();
```

```
mainUserRecyclerView = findViewById(R.id.mainUserRecyclerView);  
mainUserRecyclerView.setLayoutManager(new LinearLayoutManager(this));  
adapter = new UserAdpter(MainActivity.this,usersArrayList);  
mainUserRecyclerView.setAdapter(adapter);
```

```
reference.addValueEventListener(new ValueEventListener() {  
    @Override  
    public void onDataChange(@NonNull DataSnapshot snapshot) {  
        for (DataSnapshot dataSnapshot: snapshot.getChildren())  
        {  
            Users users = dataSnapshot.getValue(Users.class);  
            usersArrayList.add(users);  
        }  
        adapter.notifyDataSetChanged();  
    }  
}
```

```
@Override  
    public void onCancelled(@NonNull DatabaseError error) {  
    }  
}
```

});

imglogout = findViewById(R.id.logoutimg);

```
imglogout.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        Dialog dialog = new Dialog(MainActivity.this,R.style.dialoge);  
        dialog setContentView(R.layout.dialog_layout);  
        Button no,yes;  
        yes = dialog.findViewById(R.id.yesbnt);  
        no = dialog.findViewById(R.id.nobnt);  
        yes.setOnClickListener(new View.OnClickListener() {
```

@Override

```
    public void onClick(View v) {  
        Dialog dialog = new Dialog(MainActivity.this,R.style.dialoge);  
        dialog setContentView(R.layout.dialog_layout);  
        Button no,yes;  
        yes = dialog.findViewById(R.id.yesbnt);  
        no = dialog.findViewById(R.id.nobnt);  
        yes.setOnClickListener(new View.OnClickListener() {
```

@Override

```
    public void onClick(View v) {  
        FirebaseAuth.getInstance().signOut();
```

```
Intent intent = new Intent(MainActivity.this,login.class);
    startActivity(intent);
    finish();
}
```

```
});
no.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        dialog.dismiss();
    }
});
dialog.show();
}
});

setbut.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent intent = new Intent(MainActivity.this, setting.class);
        startActivity(intent);
    }
});
```




```
cumbut.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        Intent intent = new Intent(android.provider.MediaStore.ACTION_IMAGE_CAPTURE);  
        startActivityForResult(intent,10);  
    }  
});
```

```
if (auth.getCurrentUser() == null){  
    Intent intent = new Intent(MainActivity.this,login.class);  
    startActivity(intent);  
}  
}
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools">  
    <application  
        android:allowBackup="true"  
        android:dataExtractionRules="@xml/data_extraction_rules"  
        android:fullBackupContent="@xml/backup_rules"  
        android:icon="@mipmap/ic_launcher"
```



```
android:label="@string/app_name"
  android:roundIcon="@mipmap/ic_launcher_round"
  android:supportRtl="true"
  android:theme="@style/Theme.AVMessenger"
  tools:targetApi="31">
  <activity
    android:name=".setting"
    android:exported="false">
    <meta-data
      android:name="android.app.lib_name"
      android:value="" />
  </activity>
  <activity
    android:name=".chatwindo"
    android:exported="false">
    <meta-data
      android:name="android.app.lib_name"
      android:value="" />
  </activity>
  <activity
    android:name=".registration"
    android:exported="false">
```

```
<meta-data
    android:name="android.app.lib_name"
    android:value="" />
</activity>
<activity
    android:name=".login"
    android:exported="false">
    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
</activity>
<activity
    android:name=".splash"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
<category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>

    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
</activity>
```

```
<activity
    android:name=".MainActivity"
    android:exported="false">
    <meta-data
        android:name="android.app.lib_name"
        android:value="" />
    </activity>
</application>

</manifest>
```

Output:

