Project tittle:

MA Messenger

M Mohsin Asghar

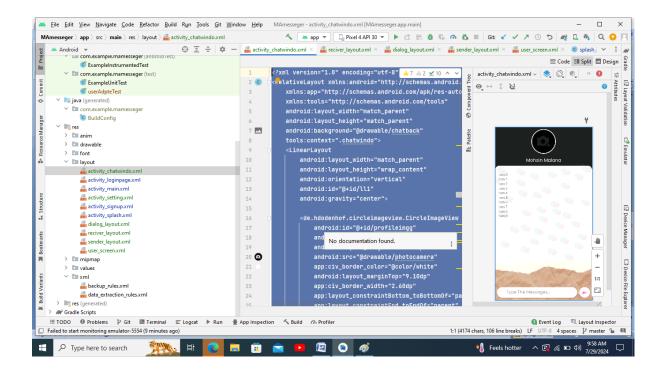
21-Arid-627(6B-Evening)

chatwindoi:

Xml code:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    android:background="@drawable/chatback"
    tools:context=".chatwindo">
    <LinearLayout</pre>
        android:layout width="match parent"
        android: layout height="wrap content"
        android:orientation="vertical"
        android:id="@+id/111"
        android:gravity="center">
        <de.hdodenhof.circleimageview.CircleImageView</pre>
            android:id="@+id/profileimgg"
            android:layout_width="@dimen/_80sdp"
            android:layout_height="@dimen/_80sdp"
            android: src="@drawable/photocamera"
            app:civ_border_color="@color/white"
            android:layout marginTop="@dimen/ 7sdp"
            app:civ_border_width="@dimen/_2sdp"
            app:layout constraintBottom toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical bias="0.226" />
        <TextView
            android:id="@+id/recivername"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:text="Mohsin Malana"
            android:gravity="center"
            android:textColor="@color/white"
            android:fontFamily="@font/poppins regular"
            android:textSize="@dimen/ 15sdp"
            android:layout margin="@dimen/ 10sdp"/>
    </LinearLayout>
    <androidx.recyclerview.widget.RecyclerView</pre>
        android:id="@+id/msgadpter"
        android:layout width="match parent"
        android:layout height="502dp"
```

```
android:layout above="@id/112"
        android:layout below="@+id/111"
        android:layout marginTop="7dp"
        android:layout marginBottom="-7dp"
        android:padding="@dimen/ 10sdp" />
    <LinearLayout</pre>
        android:id="@+id/112"
        android:layout width="match parent"
        android:layout_height="@dimen/_45sdp"
        android:layout_alignParentBottom="true"
        android:layout marginStart="@dimen/ 2sdp"
        android:layout_marginTop="@dimen/_2sdp"
        android:layout marginEnd="@dimen/ 2sdp"
        android:layout marginBottom="@dimen/ 2sdp"
        android:orientation="horizontal">
        <androidx.cardview.widget.CardView</pre>
            android:layout width="match parent"
            android:layout height="@dimen/ 35sdp"
            android:layout marginStart="@dimen/ 4sdp"
            android:layout marginTop="@dimen/ 5sdp"
            android:layout marginEnd="@dimen/ 7sdp"
            android:layout_weight="1"
            app:cardBackgroundColor="@color/white"
            app:cardCornerRadius="@dimen/ 25sdp">
            <EditText
                android:id="@+id/textmsg"
                android:layout width="338dp"
                android:layout_height="45dp"
                android:layout_marginLeft="@dimen/ 20sdp"
                android:layout gravity="center"
                android:background="@null"
                android:fontFamily="@font/poppins regular"
                android:hint="Type The Messages..."
                android:paddingStart="13.00dp" />
        </androidx.cardview.widget.CardView>
        <androidx.cardview.widget.CardView</pre>
            android:id="@+id/sendbtnn"
            android:layout width="@dimen/ 35sdp"
            android:layout height="@dimen/ 35sdp"
            android:layout marginTop="@dimen/ 5sdp"
            android:layout marginEnd="@dimen/ 5sdp"
            app:cardBackgroundColor="@color/white"
            app:cardCornerRadius="@dimen/ 25sdp">
            <ImageView</pre>
                android:layout width="@dimen/ 15sdp"
                android:layout height="@dimen/ 15sdp"
                android:layout_gravity="center"
                android:background="@drawable/sendbut" />
        </androidx.cardview.widget.CardView>
    </LinearLayout>
</RelativeLayout>
```



Java code:

```
package com.example.mamesseger;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.cardview.widget.CardView;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
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 com.squareup.picasso.Picasso;
import java.util.ArrayList;
import java.util.Date;
import de.hdodenhof.circleimageview.CircleImageView;
public class chatwindo extends AppCompatActivity {
```

```
String recivering, reciverUid, reciverName, SenderUID;
    CircleImageView profile;
    TextView reciverNName;
    FirebaseDatabase database;
    FirebaseAuth firebaseAuth;
    public static String senderImg;
    public static String reciverIImg;
    CardView sendbtn;
    EditText textmsg;
    String senderRoom, reciverRoom;
    RecyclerView messageAdpter;
    ArrayList<msqModelclass> messagesArrayList;
    messagesAdpter mmessagesAdpter;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity chatwindo);
        getSupportActionBar().hide();
        database = FirebaseDatabase.getInstance();
        firebaseAuth = FirebaseAuth.getInstance();
        reciverName = getIntent().getStringExtra("nameeee");
        reciverimg = getIntent().getStringExtra("reciverImg");
        reciverUid = getIntent().getStringExtra("uid");
        messagesArrayList = new ArrayList<>();
        sendbtn = findViewById(R.id.sendbtnn);
        textmsg = findViewById(R.id.textmsg);
        reciverNName = findViewById(R.id.recivername);
        profile = findViewById(R.id.profileimgg);
        messageAdpter = findViewById(R.id.msgadpter);
       LinearLayoutManager linearLayoutManager = new
LinearLayoutManager(this);
        linearLayoutManager.setStackFromEnd(true);
        messageAdpter.setLayoutManager(linearLayoutManager);
        mmessagesAdpter = new
messagesAdpter(chatwindo.this, messagesArrayList);
        messageAdpter.setAdapter(mmessagesAdpter);
        Picasso.get().load(recivering).into(profile);
        reciverNName.setText(""+reciverName);
        SenderUID = firebaseAuth.getUid();
        senderRoom = SenderUID+reciverUid;
        reciverRoom = reciverUid+SenderUID;
        DatabaseReference reference =
database.getReference().child("user").child(firebaseAuth.getUid());
        DatabaseReference chatreference =
database.getReference().child("chats").child(senderRoom).child("messages");
        chatreference.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot snapshot) {
```

```
messagesArrayList.clear();
                for (DataSnapshot dataSnapshot:snapshot.getChildren()) {
                    msqModelclass messages =
dataSnapshot.getValue(msgModelclass.class);
                    messagesArrayList.add(messages);
                mmessagesAdpter.notifyDataSetChanged();
            }
            @Override
            public void onCancelled(@NonNull DatabaseError error) {
        });
        reference.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot snapshot) {
                senderImg=
snapshot.child("profilepic").getValue().toString();
                reciverIImg=reciverimg;
            @Override
            public void onCancelled(@NonNull DatabaseError error) {
            }
        });
        sendbtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String message = textmsg.getText().toString();
                if (message.isEmpty()) {
                    Toast.makeText(chatwindo.this, "Enter The Message
First", Toast.LENGTH SHORT).show();
                    return;
                textmsg.setText("");
                Date date = new Date();
                msqModelclass messagess = new
msgModelclass(message, SenderUID, date.getTime());
                database=FirebaseDatabase.getInstance();
                database.getReference().child("chats")
                        .child(senderRoom)
                        .child("messages")
.push().setValue(messagess).addOnCompleteListener(new
OnCompleteListener<Void>() {
                            @Override
                            public void onComplete(@NonNull Task<Void>
task) {
                                database.getReference().child("chats")
                                         .child(reciverRoom)
                                         .child("messages")
.push().setValue(messagess).addOnCompleteListener(new
OnCompleteListener<Void>() {
                                             public void onComplete(@NonNull
Task<Void> task) {
```

}
});

});

});