



Second Progress Report

EEI4369 -Mobile Application
Development for Android

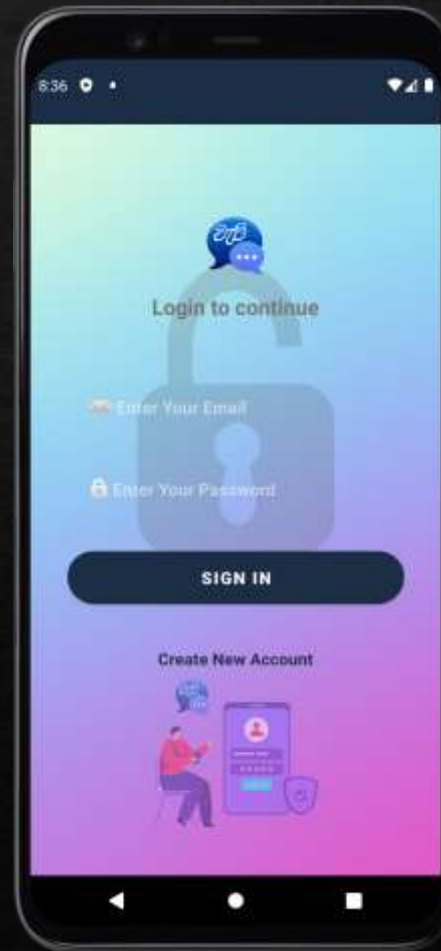
W.M.D.H.Gunarathna

S 92083720

App Icon

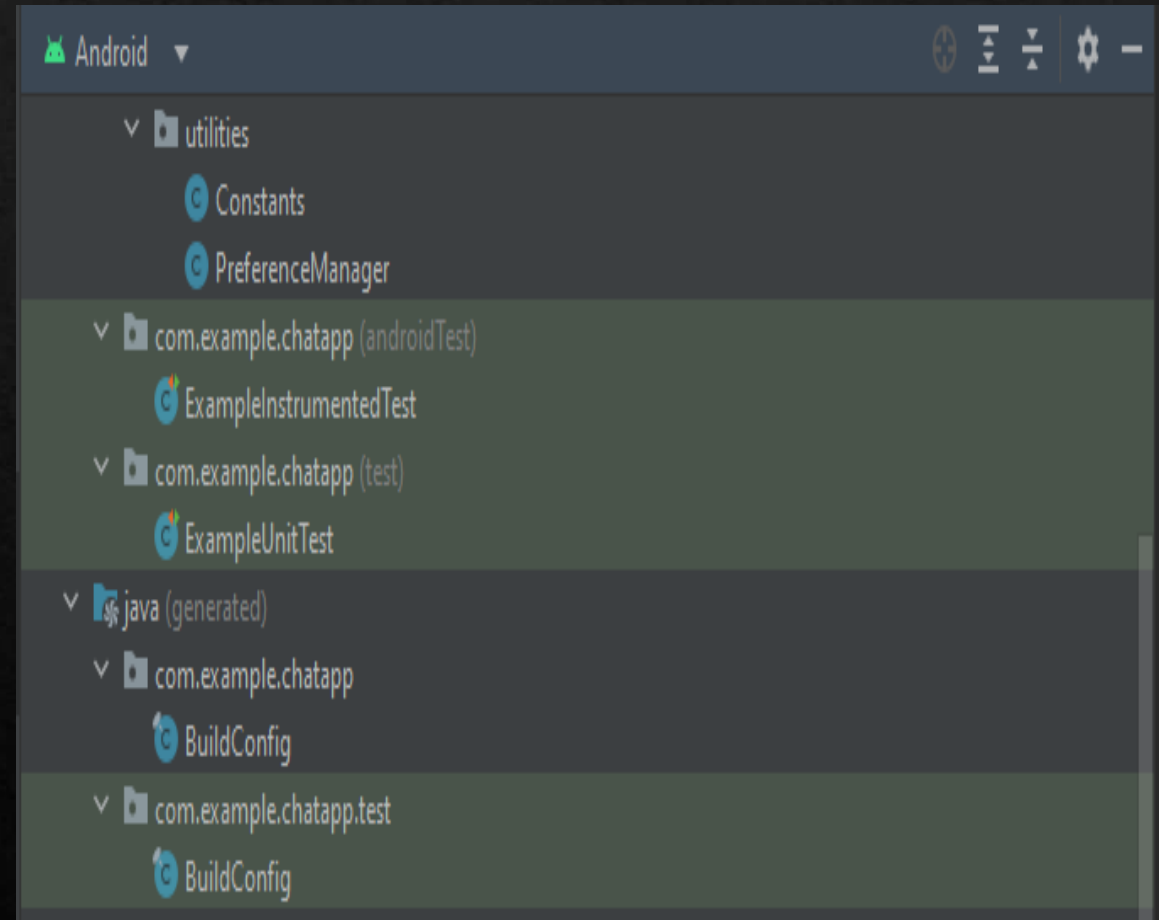
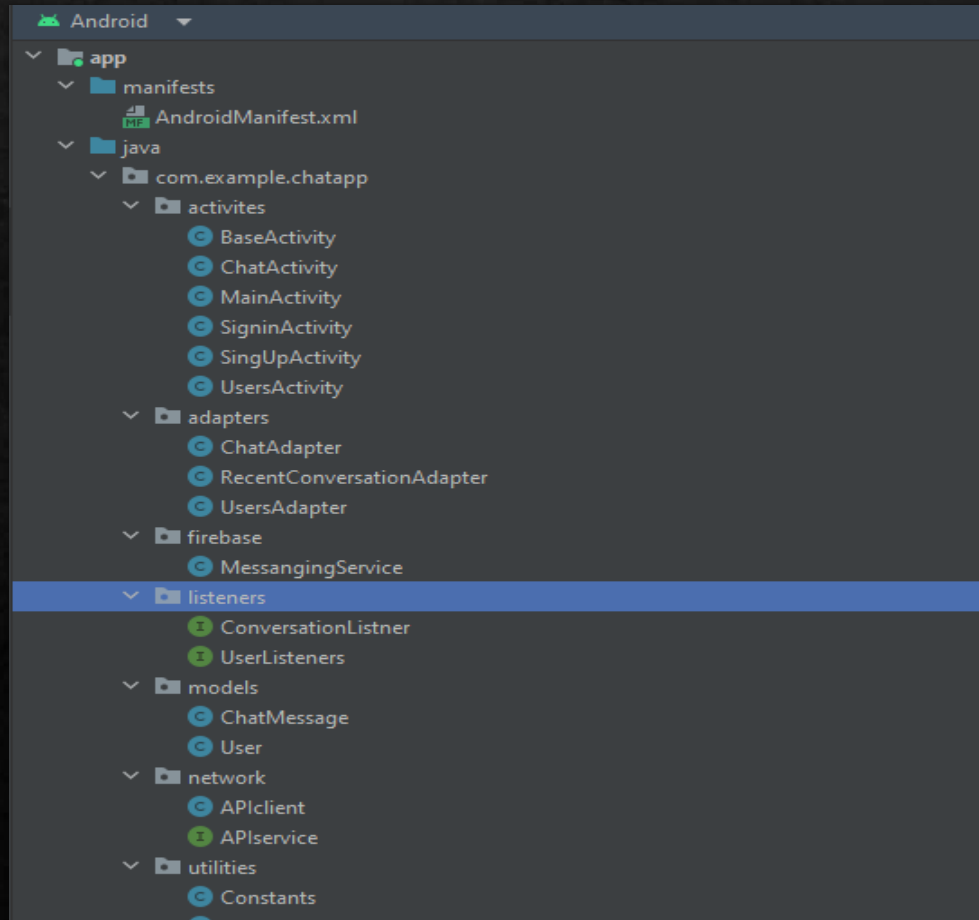


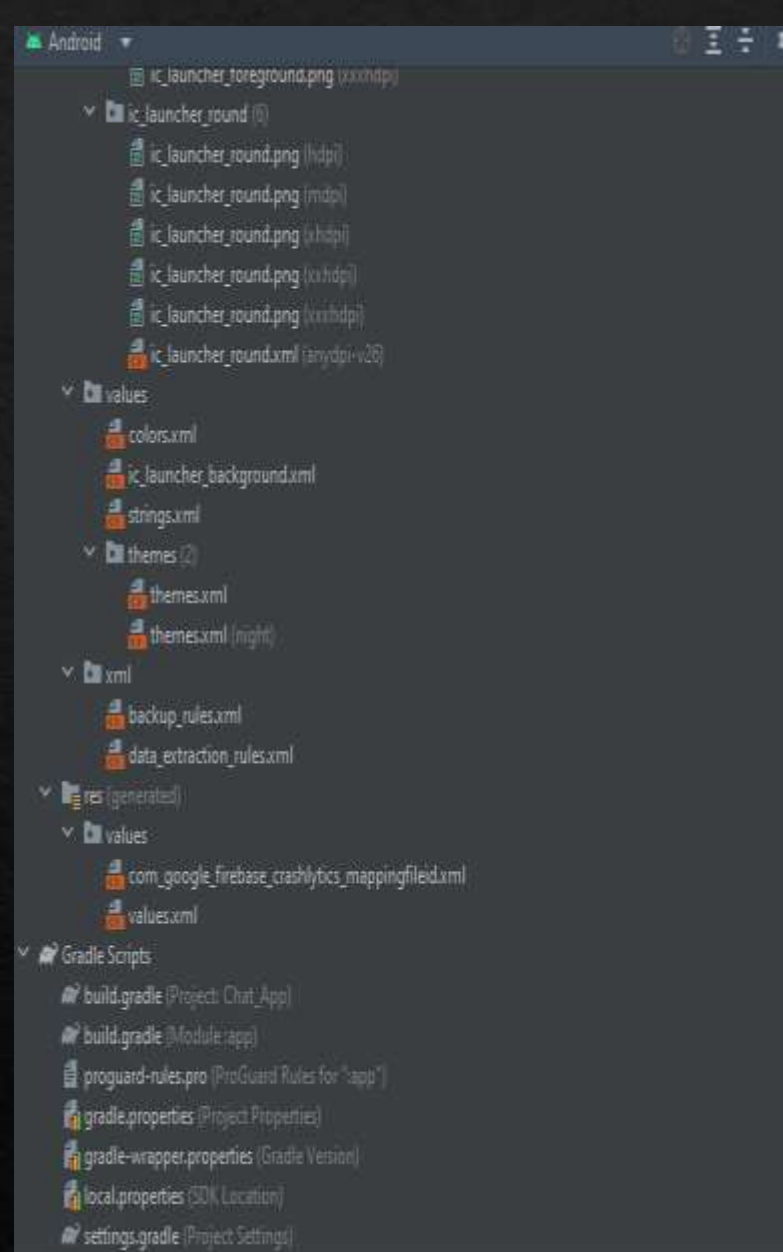
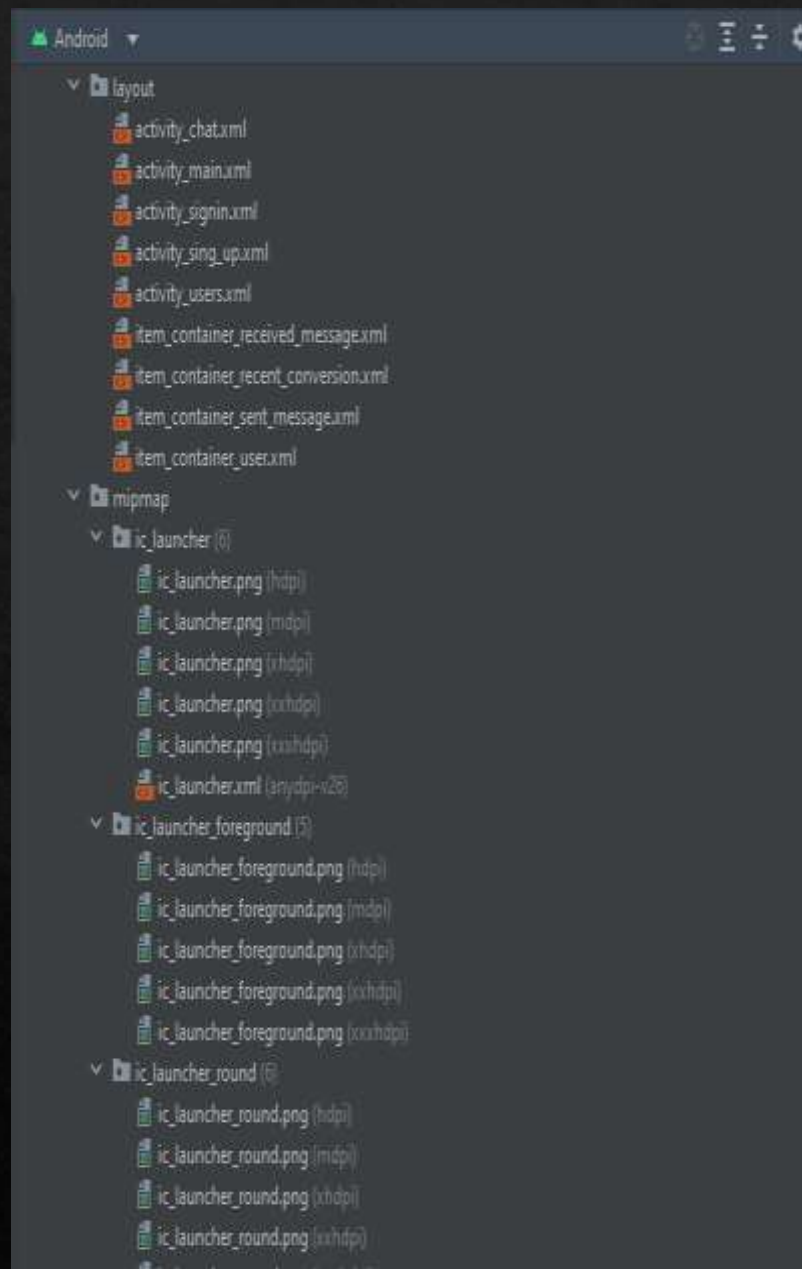
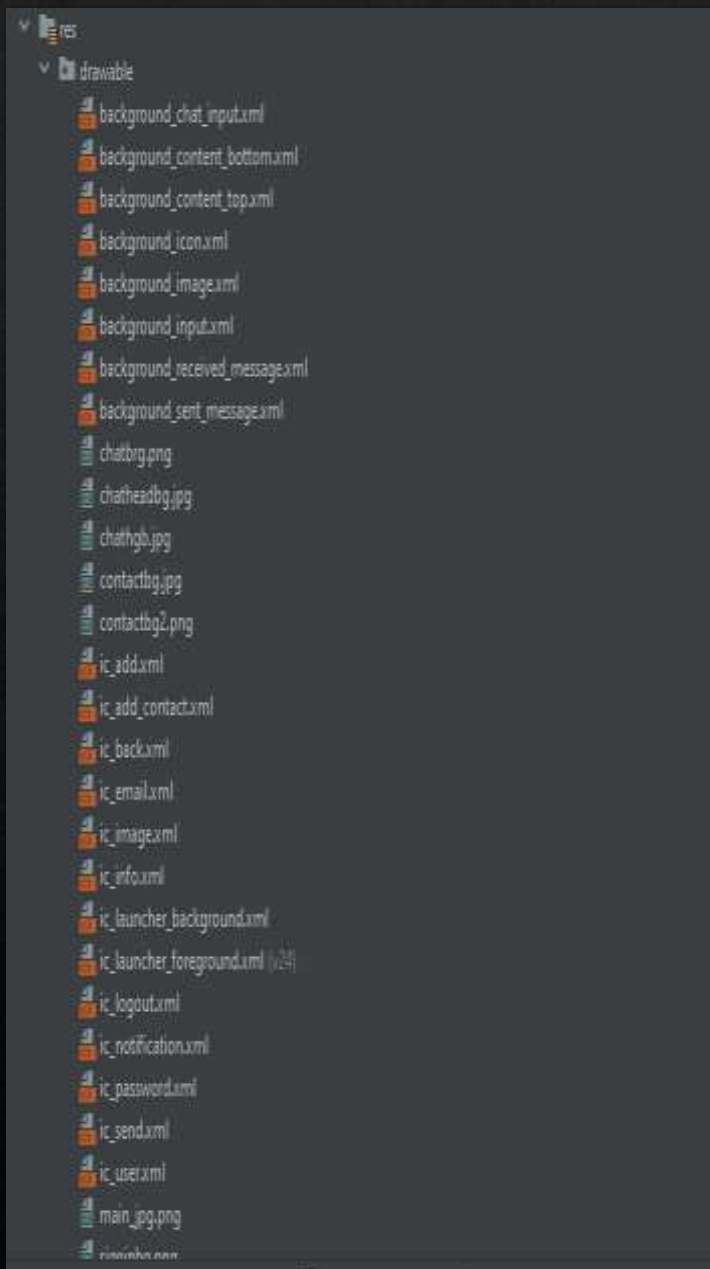
Realtime User Interfaces



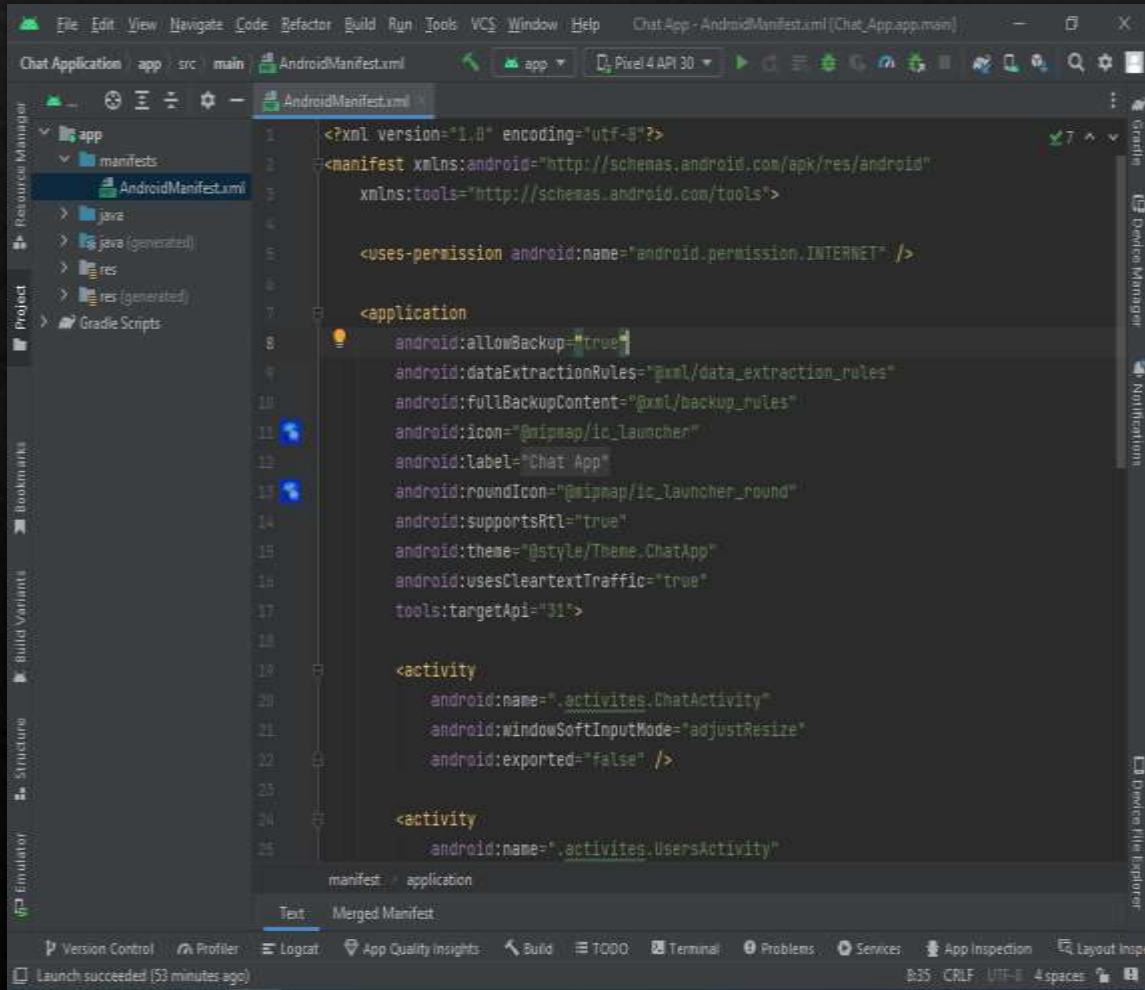


Project Structure In Android Studio





Coding Samples



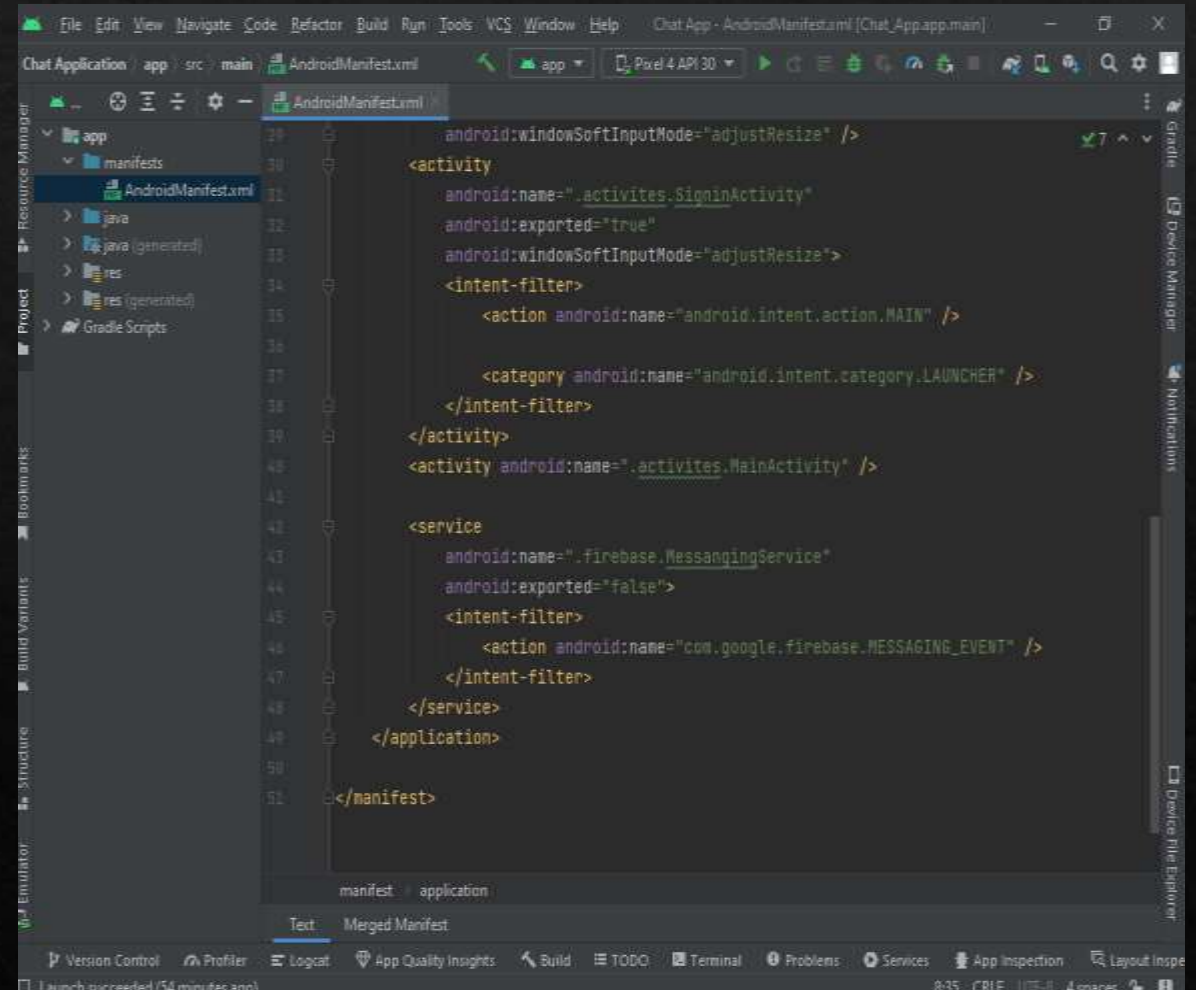
```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <uses-permission android:name="android.permission.INTERNET" />

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="Chat App"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.ChatApp"
        android:usesCleartextTraffic="true"
        tools:targetApi="31">

        <activity
            android:name=".activities.ChatActivity"
            android:windowSoftInputMode="adjustResize"
            android:exported="false" />

        <activity
            android:name=".activities.UsersActivity"
```

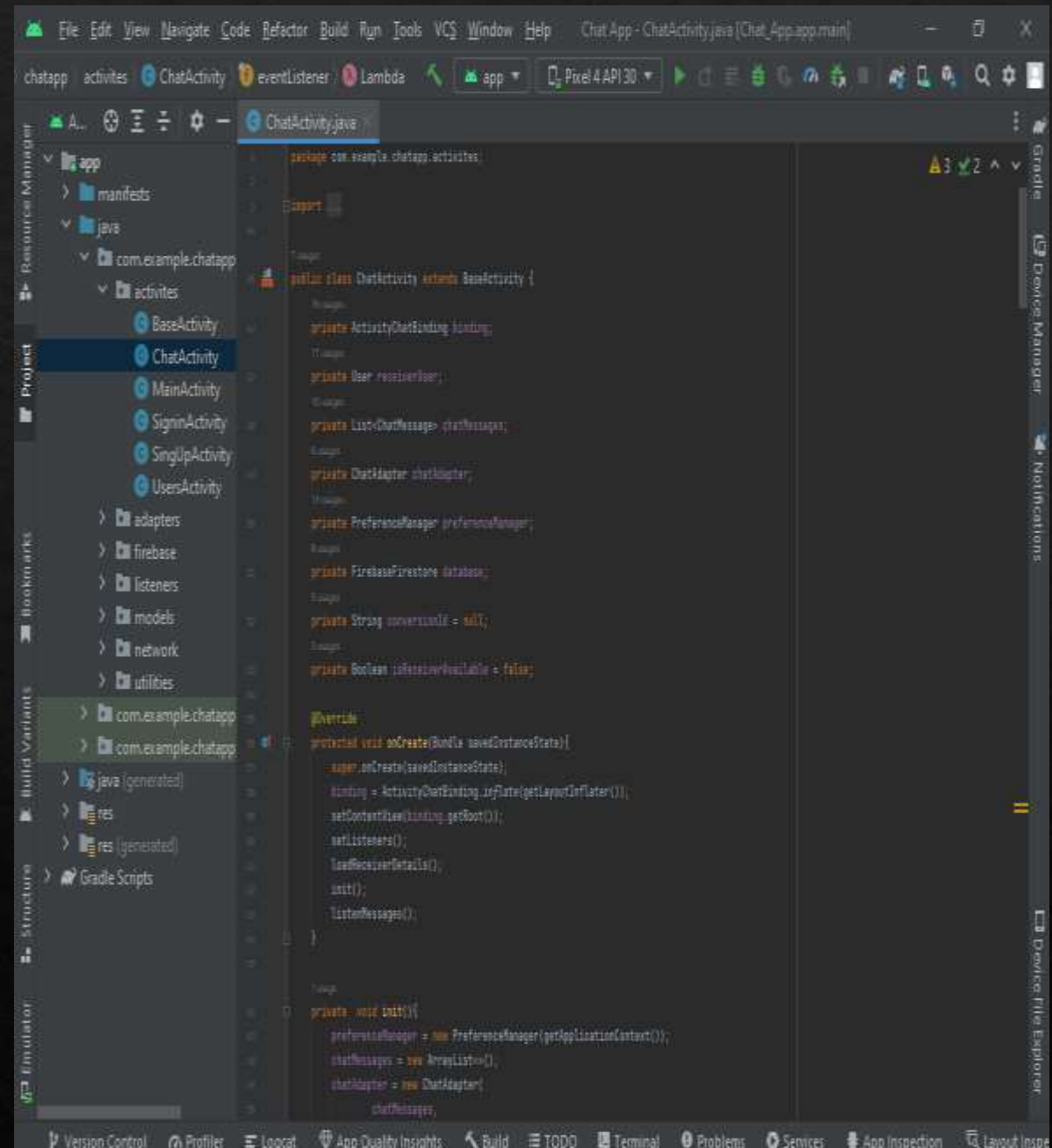
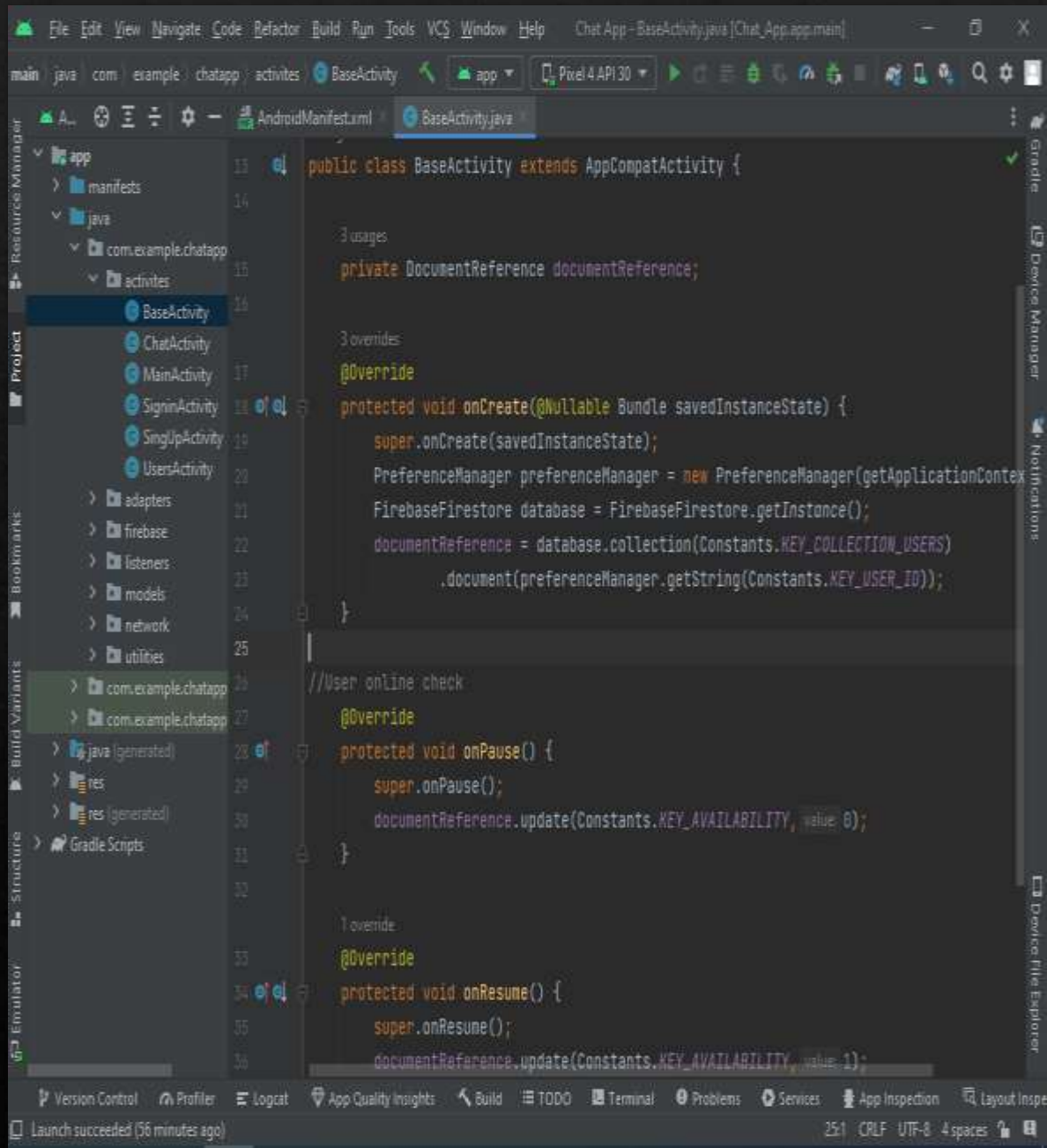


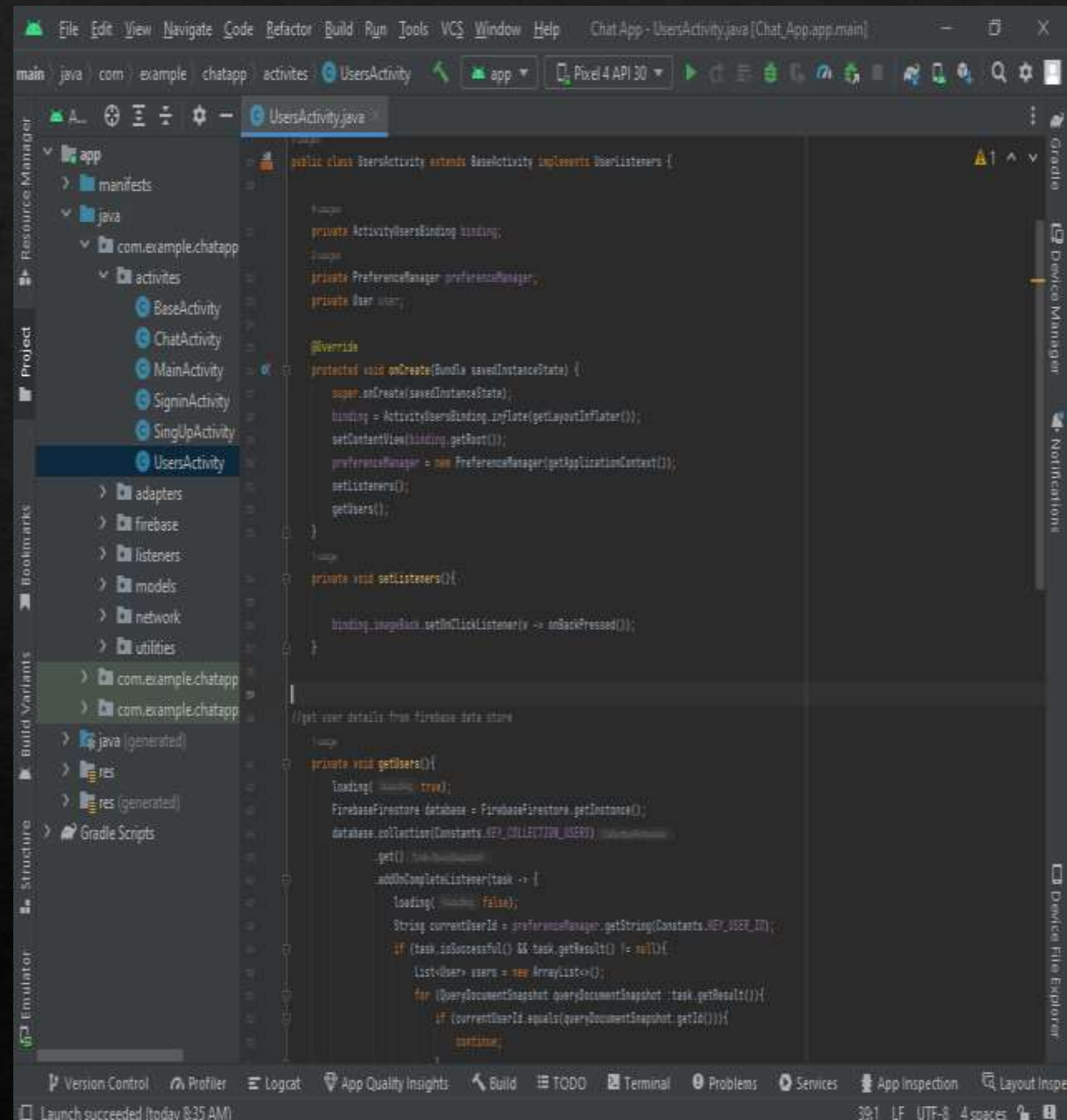
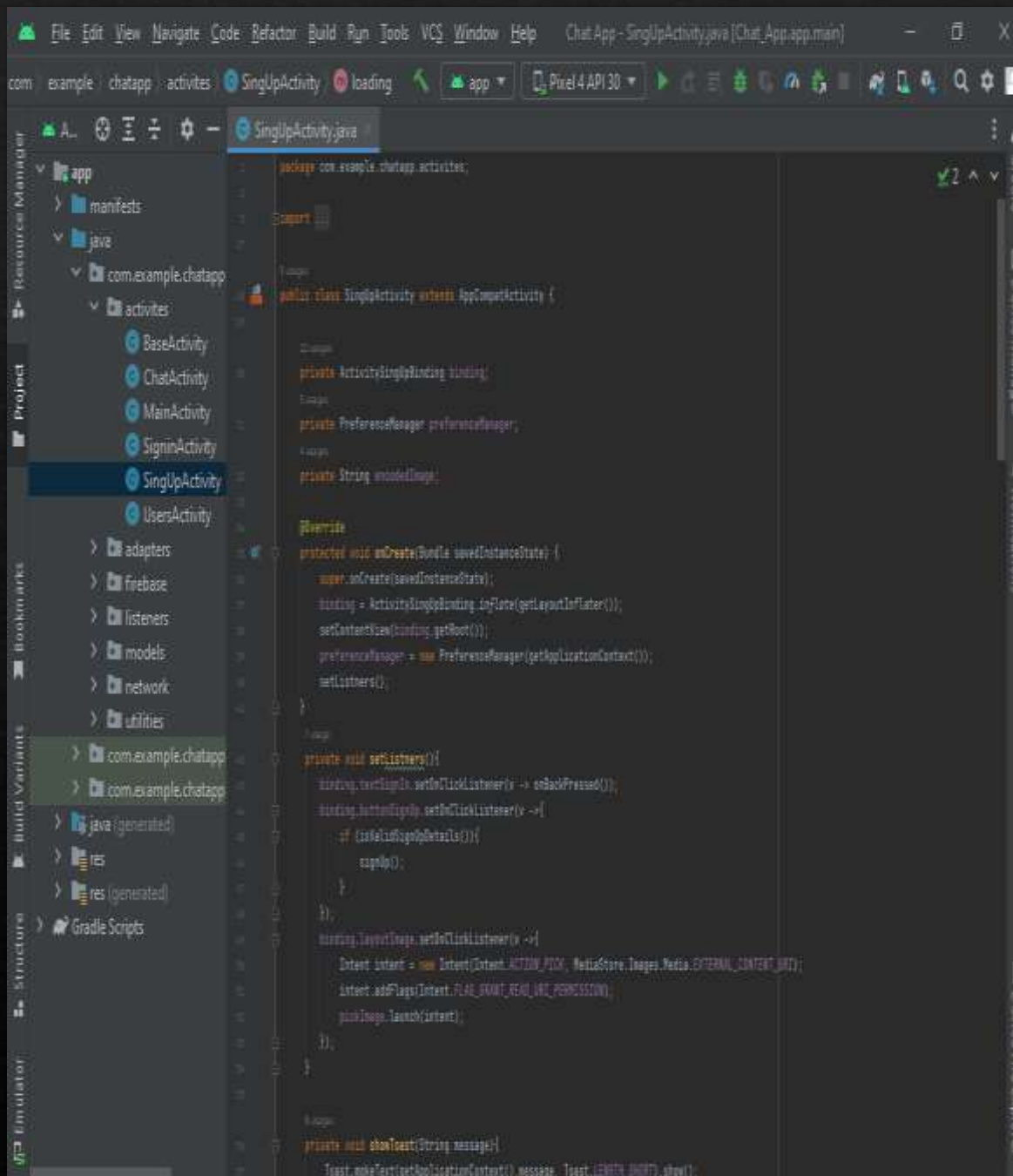
```
        android:windowSoftInputMode="adjustResize" />

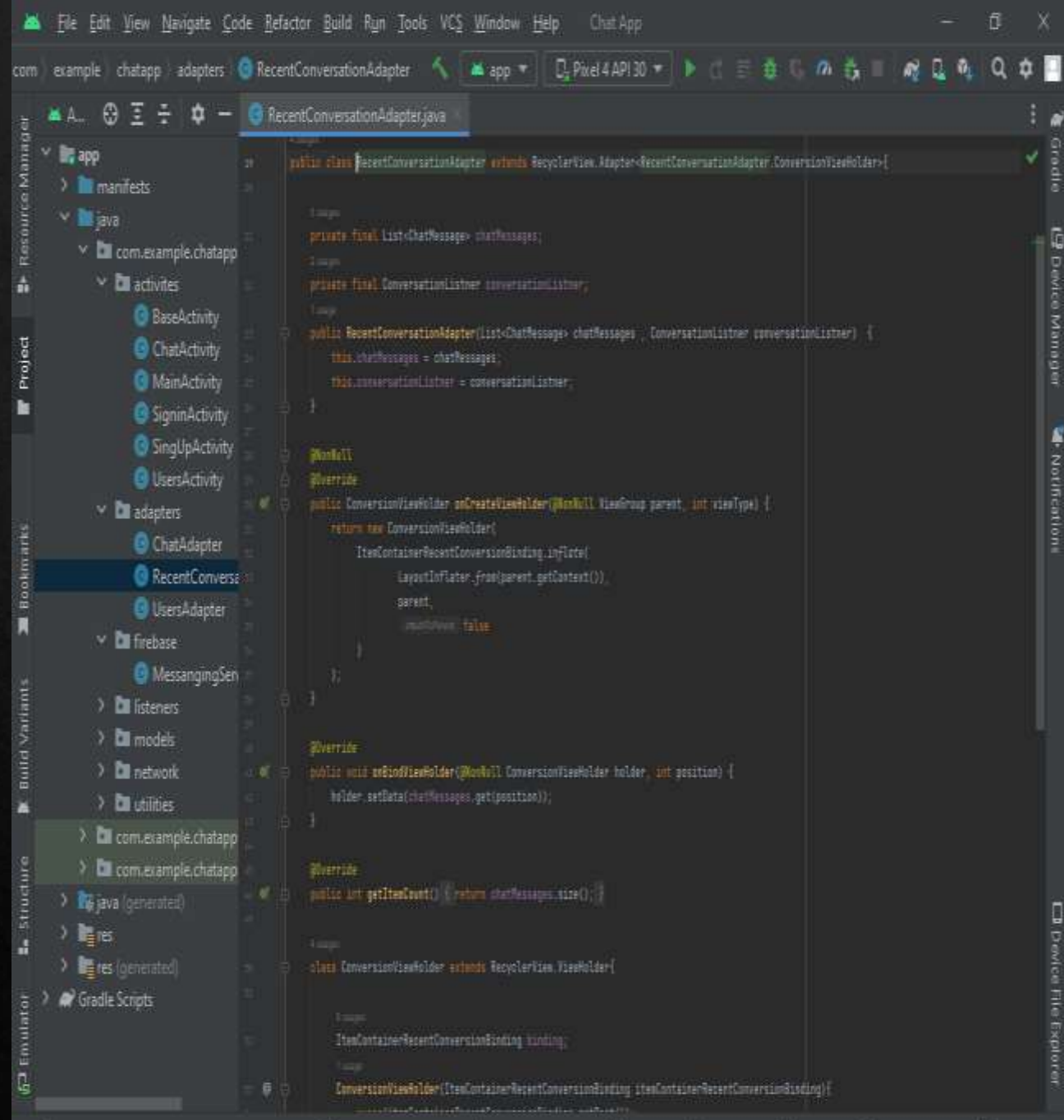
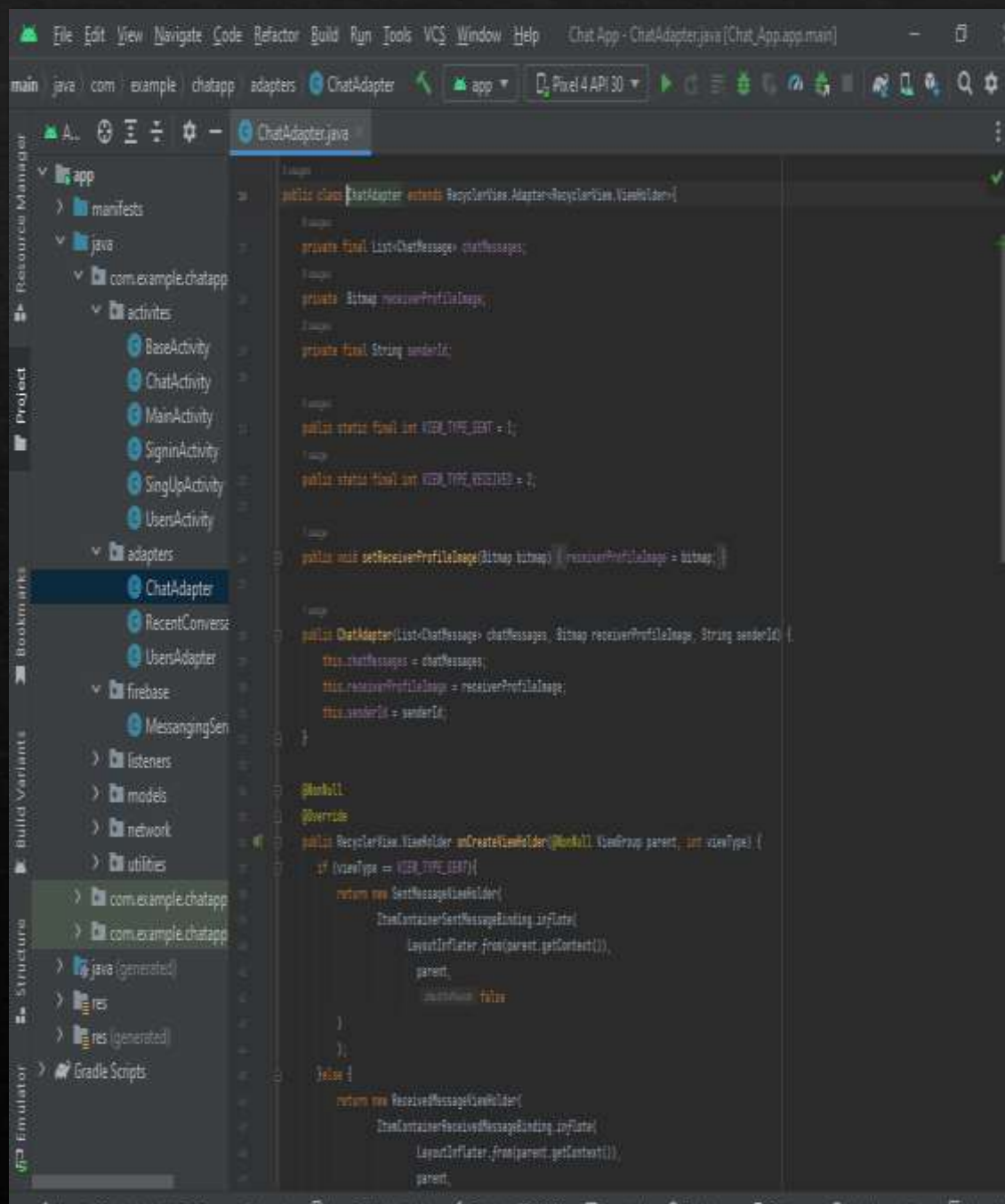
        <activity
            android:name=".activities.SigninActivity"
            android:exported="true"
            android:windowSoftInputMode="adjustResize">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".activities.MainActivity" />

        <service
            android:name=".firebase.MessagingService"
            android:exported="false">
            <intent-filter>
                <action android:name="com.google.firebase.MESSAGING_EVENT" />
            </intent-filter>
        </service>
    </application>
</manifest>
```





IDE window showing the code for `UsersAdapter.java` in the `chatapp` project. The file is located at `com.example.chatapp.adapters`.

```
1 package
2 private final List<User> users;
3 private final List<UserListeners> userListeners;
4
5 public UsersAdapter(List<User> users, List<UserListeners> userListeners) {
6     this.users = users;
7     this.userListeners = userListeners;
8 }
9
10 @Override
11 public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
12     ItemContainerUserBinding itemContainerUserBinding = ItemContainerUserBinding.inflate(
13         LayoutInflater.from(parent.getContext()),
14         parent,
15         false
16     );
17     return new ViewHolder(itemContainerUserBinding);
18 }
19
20 @Override
21 public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
22     holder.setData(users.get(position));
23 }
24
25 @Override
26 public int getItemCount() { return users.size(); }
27
28 class ViewHolder extends RecyclerView.ViewHolder {
29     ItemContainerUserBinding binding;
30
31     ViewHolder(ItemContainerUserBinding itemContainerUserBinding) {
32         super(itemContainerUserBinding.getRoot());
33     }
34 }
```

The left sidebar shows the Project structure with the following hierarchy:

- app
 - manifests
 - java
 - com.example.chatapp
 - activities
 - BaseActivity
 - ChatActivity
 - MainActivity
 - SignInActivity
 - SignUpActivity
 - UsersActivity
 - adapters
 - ChatAdapter
 - RecentConverse
 - UsersAdapter**
 - firebase
 - MessagingService
 - listeners
 - models
 - network
 - utilities
 - com.example.chatapp
 - com.example.chatapp
 - java (generated)
 - res
 - res (generated)
 - Gradle Scripts

IDE window showing the code for `MessagingService.java` in the `chatapp` project. The file is located at `com.example.chatapp.firebase`.

```
1 package com.example.chatapp.firebase;
2
3 //import android.util.Log;
4
5 import androidx.annotation.NonNull;
6
7 public class MessagingService extends FirebaseMessagingService {
8     @Override
9     public void onNewToken(@NonNull String token) {
10         super.onNewToken(token);
11         //Log.d("FCM", "Token: " + token);
12     }
13
14     @Override
15     public void onMessageReceived(@NonNull RemoteMessage remoteMessage) {
16         super.onMessageReceived(remoteMessage);
17         // Log.d("FCM", "Message: " + remoteMessage.getNotification().getBody());
18         User user = new User();
19         user.id = remoteMessage.getData().get(Constants.KEY_USER_ID);
20         user.name = remoteMessage.getData().get(Constants.KEY_NAME);
21         user.token = remoteMessage.getData().get(Constants.KEY_FCM_TOKEN);
22
23         int notificationId = new Random().nextInt();
24         String channelId = "chat_message";
25
26         Intent intent = new Intent(this, ChatActivity.class);
27         intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK | Intent.FLAG_ACTIVITY_CLEAR_TASK);
28         intent.putExtra(Constants.KEY_USER, user);
29         PendingIntent pendingIntent = PendingIntent.getActivity(this, 0, intent,
30             PendingIntent.FLAG_UPDATE_CURRENT);
31
32         NotificationCompat.Builder builder = new NotificationCompat.Builder(this, channelId);
33         builder.setSmallIcon(R.drawable.ic_notification);
34         builder.setContentTitle(user.name);
35         builder.setText(remoteMessage.getData().get(Constants.KEY_MESSAGE));
36         builder.setStyle(new NotificationCompat.BigTextStyle().bigText(
37             remoteMessage.getData().get(Constants.KEY_MESSAGE)
38         ));
39     }
40 }
```

The left sidebar shows the Project structure with the following hierarchy:

- app
 - manifests
 - java
 - com.example.chatapp
 - activities
 - adapters
 - firebase
 - MessagingService**
 - listeners
 - models
 - network
 - utilities
 - com.example.chatapp
 - com.example.chatapp
 - java (generated)
 - res
 - res (generated)
 - Gradle Scripts

File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Chat App - MessagingService.java [Chat_App.app.main]

chatapp firebase MessagingService onMessageReceived app Pixel 4 API 30

Project

- app
 - manifests
 - java
 - com.example.chatapp
 - activities
 - adapters
 - firebase
 - MessagingService
 - listeners
 - models
 - network
 - utilities
 - com.example.chatapp
 - com.example.chatapp
 - java (generated)
 - res
 - res (generated)
- Gradle Scripts

```
1 package com.example.chatapp.firebase;
2
3 //import android.util.Log;
4
5 import ...
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```

public class MessagingService extends FirebaseMessagingService {

@Override

public void onNewToken(@NonNull String token) {

super.onNewToken(token);

//Log.d("FCM", "Token: " + token);

}

@Override

public void onMessageReceived(@NonNull RemoteMessage remoteMessage) {

super.onMessageReceived(remoteMessage);

// Log.d("FCM", "Message: " + remoteMessage.getNotification().getBody());

User user = new User();

user.id = remoteMessage.getData().get(Constants.KEY_USER_ID);

user.name = remoteMessage.getData().get(Constants.KEY_NAME);

user.token = remoteMessage.getData().get(Constants.KEY_FCM_TOKEN);

int notificationId = new Random().nextInt();

String channelId = "chat_message";

Intent intent = new Intent(this, ChatActivity.class);

intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK | Intent.FLAG_ACTIVITY_CLEAR_TASK);

intent.putExtra(Constants.KEY_USER, user);

PendingIntent pendingIntent = PendingIntent.getActivity(this, 0, intent, 0);

NotificationCompat.Builder builder = new NotificationCompat.Builder(this, channelId);

builder.setSmallIcon(R.drawable.ic_notification);

builder.setContentTitle(user.name);

builder.setContentText(remoteMessage.getData().get(Constants.KEY_MESSAGE));

builder.setStyle(new NotificationCompat.BigTextStyle().bigText(remoteMessage.getData().get(Constants.KEY_MESSAGE)));

builder.setPriority(NotificationCompat.PRIORITY_DEFAULT);

NotificationCompat.Builder builder = new NotificationCompat.Builder(this, channelId);

builder.setSmallIcon(R.drawable.ic_notification);

builder.setContentTitle(user.name);

builder.setContentText(remoteMessage.getData().get(Constants.KEY_MESSAGE));

builder.setStyle(new NotificationCompat.BigTextStyle().bigText(remoteMessage.getData().get(Constants.KEY_MESSAGE)));

builder.setPriority(NotificationCompat.PRIORITY_DEFAULT);

NotificationManager notificationManager = (NotificationManager) getSystemService(Context.NOTIFICATION_SERVICE);

notificationManager.notify(notificationId, builder.build());

}

File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Chat App - UserListeners.java [Chat_App.app.main]

main java com example chatapp listeners UserListeners app Pixel 4 API 30

Project

- app
 - manifests
 - java
 - com.example.chatapp
 - activities
 - adapters
 - firebase
 - listeners
 - ConversationListener
 - UserListeners
 - models
 - network
 - utilities
 - com.example.chatapp
 - com.example.chatapp
 - java (generated)
 - res
 - res (generated)
- Gradle Scripts

```
1 package com.example.chatapp.listeners;
2
3 import com.example.chatapp.models.User;
4
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```

public interface UserListeners {

void onUserClicked(User user);

}

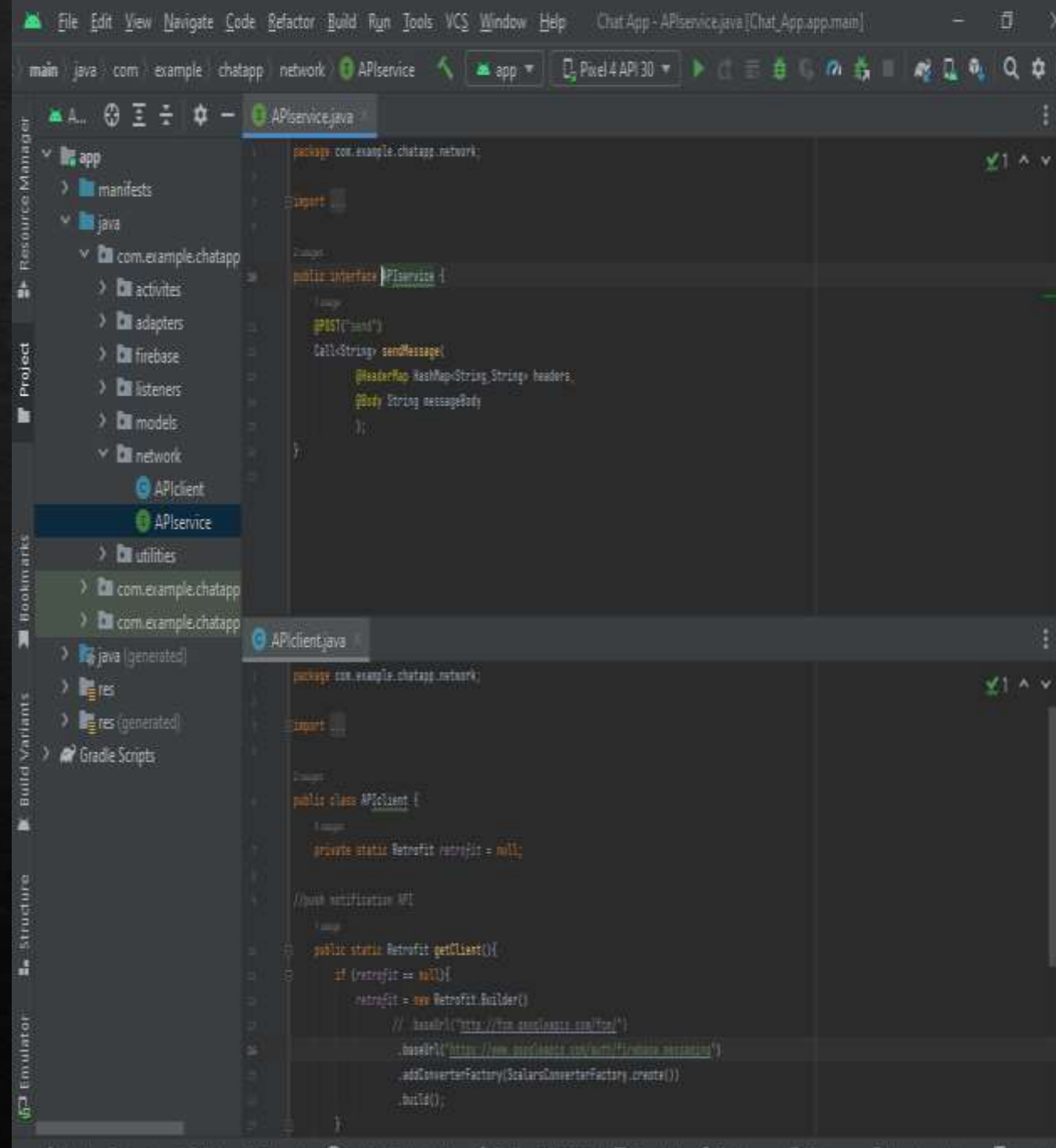
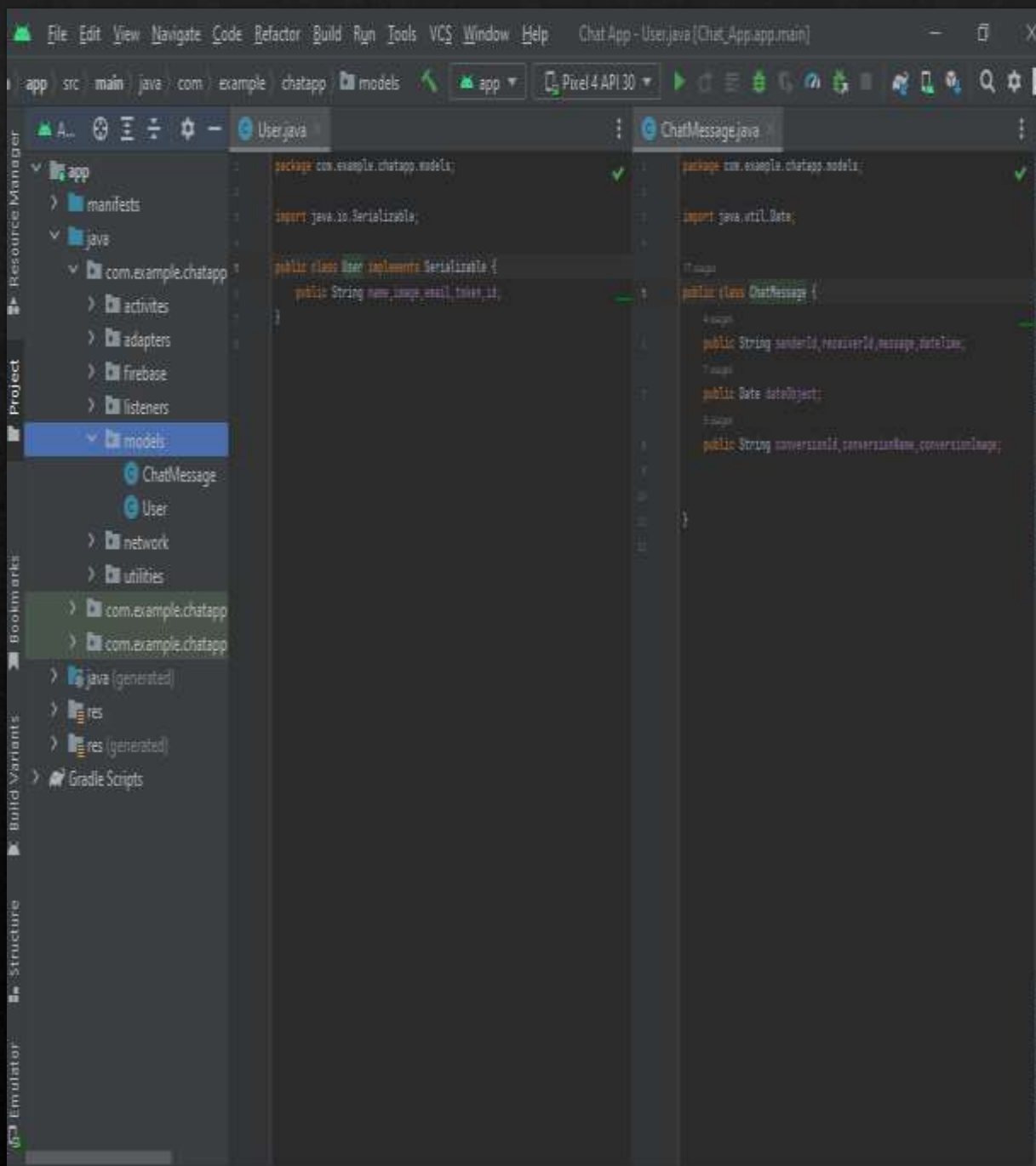
ConversationListener.java

```
1 package com.example.chatapp.listeners;
2
3 import com.example.chatapp.models.User;
4
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```

public interface ConversationListener {

void onConversationClicked(User user);

}



File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Chat App - PreferenceManager.java [Chat_App.app.main]

java > com > example > chatapp > utilities > PreferenceManager app Pixel 4 API 30

Resource Manager Project Bookmarks Build Variants Structure Emulator

app

- manifests
- java
 - com.example.chatapp
 - activities
 - adapters
 - firebase
 - listeners
 - models
 - network
 - utilities
 - Constants
 - PreferenceManager
 - com.example.chatapp
 - com.example.chatapp
- java (generated)
- res
- res (generated)
- Gradle Scripts

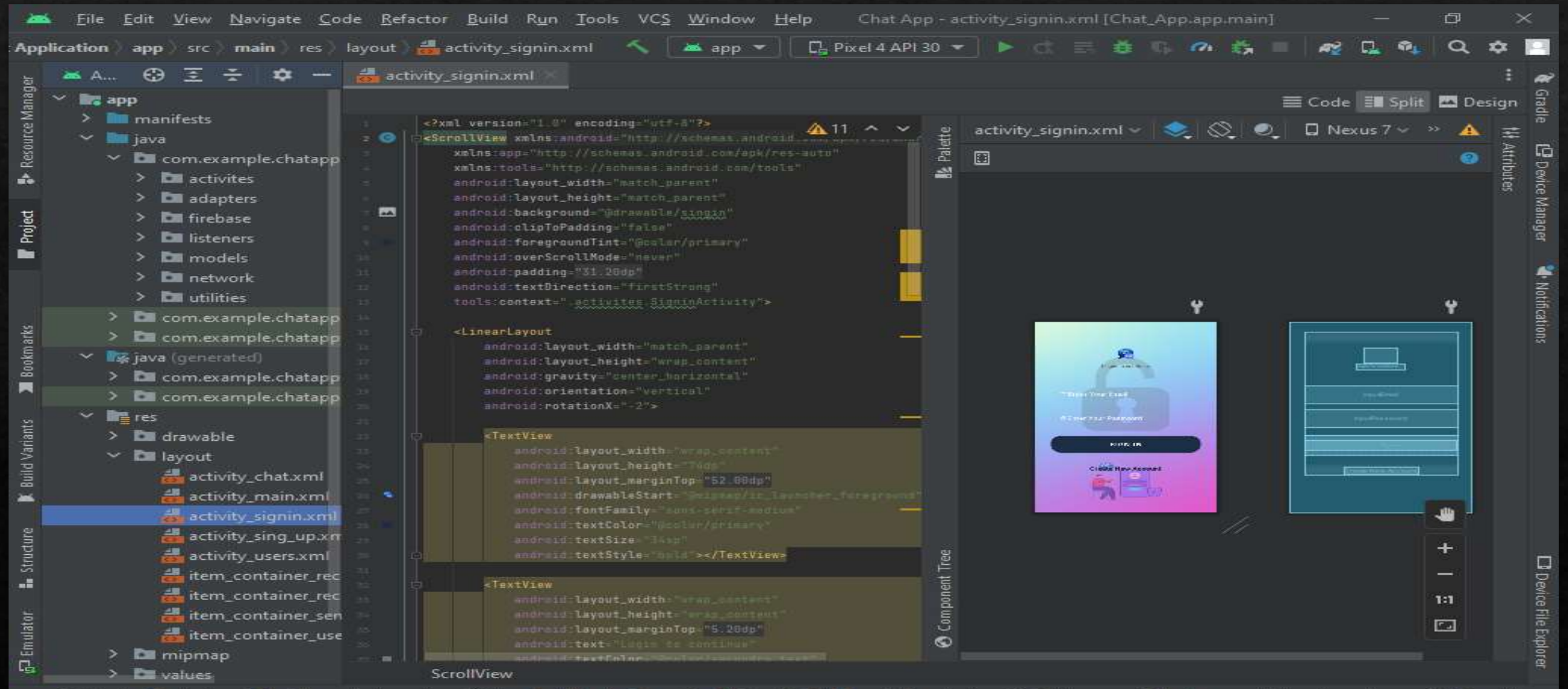
Constants.java

```
1 package com.example.chatapp.utilities;
2
3 import java.util.HashMap;
4
5
6 public class Constants {
7     public static final String KEY_COLLECTION_USERS = "users";
8     public static final String KEY_NAME = "name";
9     public static final String KEY_EMAIL = "email";
10    public static final String KEY_PASSWORD = "password";
11    public static final String KEY_PREFERENCE_NAME = "chatAppPreference";
12    public static final String KEY_IS_SIGNED_IN = "isSignedIn";
13    public static final String KEY_USER_ID = "userId";
14    public static final String KEY_IMAGE = "image";
15    public static final String KEY_FCM_TOKEN = "fcmToken";
16    public static final String KEY_USER = "user";
17    public static final String KEY_COLLECTION_CHAT = "chat";
18    public static final String KEY_SENDER_ID = "senderId";
19    public static final String KEY_RECEIVER_ID = "receiverId";
20    public static final String KEY_MESSAGE = "message";
21    public static final String KEY_TIMESTAMP = "timestamp";
22    public static final String KEY_COLLECTION_CONVERSATIONS = "conversations";
```

PreferenceManager.java

```
1 package com.example.chatapp.utilities;
2
3 import
4
5 public class PreferenceManager {
6     private final SharedPreferences sharedPreferences;
7
8     public PreferenceManager(Context context){
9         sharedPreferences = context.getSharedPreferences(Constants.K
10     }
11
12     public void putBoolean(String key, Boolean value){
13         SharedPreferences.Editor editor = sharedPreferences.edit();
14         editor.putBoolean(key, value);
15         editor.apply();
16     }
17
18     public Boolean getBoolean(String key) { return sharedPreferences.g
19
20     public void putString(String key, String value){
21         SharedPreferences.Editor editor = sharedPreferences.edit();
22         editor.putString(key, value);
23         editor.apply();
24     }
25
26     public String getString(String key) { return sharedPreferences.g
27
28     public void clear(){
29         SharedPreferences.Editor editor = sharedPreferences.edit();
30         editor.clear();
31         editor.apply();
32     }
33 }
```


UI Desing



File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Chat App - activity_sing_up.xml [Chat_App.app.main]

Application > app > src > main > res > layout > activity_sing_up.xml

activity_sing_up.xml

app

- manifests
- java
 - com.example.chatapp
 - activities
 - adapters
 - firebase
 - listeners
 - models
 - network
 - utilities
 - com.example.chatapp
 - com.example.chatapp
 - java (generated)
 - com.example.chatapp
 - com.example.chatapp
- res
 - drawable
 - layout
 - activity_chat.xml
 - activity_main.xml
 - activity_signin.xml
 - activity_sing_up.xml
 - activity_users.xml
 - item_container_rec
 - item_container_rec
 - item_container_sen
 - item_container_use
 - mipmap
 - values

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <ScrollView xmlns:android="http://schemas.android.com/apk/res-auto"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:background="@drawable/signupbg"
8     android:clipToPadding="false"
9     android:overScrollMode="never"
10    android:padding="31.20dp"
11    android:scrollbars="none"
12    tools:context=".activities.SingUpActivity">
13
14    <LinearLayout
15        android:layout_width="match_parent"
16        android:layout_height="wrap_content"
17        android:gravity="center_horizontal"
18        android:orientation="vertical">
19
20        <TextView
21            android:layout_width="wrap_content"
22            android:layout_height="wrap_content"
23            android:layout_marginTop="26.80dp"
24            android:text="Create New Account"
25            android:textColor="@color/primary_text"
26            android:textSize="23.40sp"
27            android:textStyle="bold"></TextView>
28
29        <FrameLayout
30            android:id="@+id/layoutImage"
31            android:layout_width="wrap_content"
32            android:layout_height="wrap_content"
33            android:layout_marginTop="26.80dp">
34
35            <com.makeramen.roundedimageview.RoundedImageView
36                android:id="@+id/imageProfile"
37                android:layout_width="100.00dp"
```

activity_sing_up.xml

Pixel 4 API 30

Code Split Design

Attributes

Component Tree

1:1

File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Chat App - activity_main.xml [Chat_App.app.main]

Android Studio Interface showing the XML layout for activity_main.xml.

Left Panel (Resource Manager): Displays the project structure. The selected file is activity_main.xml.

XML Code:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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:animateLayoutChanges="true"
    android:background="@drawable/chatheadbg"
    tools:context=".activities.MainActivity">

    <com.makeramen.roundedimageview.RoundedImageView
        android:id="@+id/imageProfile"
        android:layout_width="39.88dp"
        android:layout_height="39.88dp"
        android:layout_marginStart="20.88dp"
        android:layout_marginLeft="28.88dp"
        android:layout_marginTop="15.68dp"
        android:background="@drawable/background_icon"
        android:scaleType="centerCrop"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:riv_corner_radius="18.48dp" />

    <androidx.appcompat.widget.AppCompatImageView
        android:id="@+id/imageSignOut"
        android:layout_width="39.88dp"
        android:layout_height="39.88dp"
        android:layout_marginTop="15.68dp"
        android:layout_marginEnd="28.88dp"
        android:layout_marginRight="20.88dp"
        android:background="@drawable/background_icon"
        android:padding="7.88dp"
        android:src="@drawable/is_layout"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:tint="@color/white" />
```

Right Panel (Design View): Shows the visual representation of the layout. The design view displays two preview windows side-by-side, showing the layout on a mobile device screen. The left preview shows a chat bubble, and the right preview shows a sign-out button.

Bottom Panel (Component Tree): Displays the hierarchy of the layout components.

File Edit View Navigate Code Refactor Build Run Tools VCS Window Help

Chat App - activity_users.xml [Chat_App.app.main]

Application > app > src > main > res > layout > activity_users.xml

app Pixel 4 API 30

Android

app

manifests

java

com.example.chatapp

activities

adapters

firebase

listeners

models

network

utilities

com.example.chatapp (android)

com.example.chatapp (test)

java (generated)

com.example.chatapp

com.example.chatapp.test

res

drawable

layout

activity_chat.xml

activity_main.xml

activity_signin.xml

activity_sign_up.xml

activity_users.xml

item_container_received...

item_container_recent_co...

item_container_sent_mes...

item_container_user.xml

mipmap

values

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activity_users.xml

0dp

Attributes

Component Tree

Device Manager

Notifications

Layout Validation

Device File Explorer

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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:animateLayoutChanges="true"
    android:background="@drawable/chatheadbg"
    tools:context=".activities.UsersActivity">

    <androidx.appcompat.widget.AppCompatImageView
        android:id="@+id/imageBack"
        android:layout_width="39.88dp"
        android:layout_height="39.88dp"
        android:layout_marginStart="20.88dp"
        android:layout_marginLeft="20.88dp"
        android:layout_marginTop="15.68dp"
        android:background="@drawable/background_icon"
        android:padding="7.88dp"
        android:src="@drawable/ic_back"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:tint="@color/white" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select User"
        android:textColor="@color/white"
        android:textSize="18.28sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="@+id/imageBack"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="@+id/imageBack" />

</androidx.constraintlayout.widget.ConstraintLayout>
```



FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelp

Chat App - activity_chat.xml [Chat_App.app.main]

at Application > app > src > main > res > layout > activity_chat.xml

appPixel 4 API 30

Androidactivity_chat.xml

app

manifests

java

com.example.chatapp

activities

adapters

firebase

listeners

models

network

utilities

com.example.chatapp (android)

com.example.chatapp (test)

java (generated)

com.example.chatapp

com.example.chatapp.test

res

drawable

layout

activity_chat.xml

activity_main.xml

activity_signin.xml

activity_sign_up.xml

activity_users.xml

item_container_received...

item_container_recent_co...

item_container_sent_mes...

item_container_user.xml

mipmap

values

1<?xml version="1.0" encoding="utf-8"?>

2<androidx.constraintlayout.widget.ConstraintLayout

3xmlns:app="http://schemas.android.com/apk/res-auto"

4xmlns:tools="http://schemas.android.com/tools"

5android:layout_width="match_parent"

6android:layout_height="match_parent"

7android:animateLayoutChanges="true"

8android:background="@drawable/chatbg"

9tools:context=".activities.ChatActivity">

10

11<View

12android:id="@+id/viewBackground"

13android:layout_width="match_parent"

14android:layout_height="8dp"

15android:layout_marginBottom="26.88dp"

16android:background="@drawable/chatbg"

17app:layout_constraintBottom_toTopOf="@+id/layoutSend"

18app:layout_constraintTop_toTopOf="parent" />

19

20<View

21android:id="@+id/headerBackground"

22android:layout_width="match_parent"

23android:layout_height="8dp"

24android:background="@drawable/chatheadbg"

25app:layout_constraintBottom_toTopOf="@+id/viewSupporter"

26app:layout_constraintTop_toTopOf="parent" />

27

28<androidx.appcompat.widget.AppCompatImageView

29android:id="@+id/imageBack"

30android:layout_width="39.88dp"

31android:layout_height="39.88dp"

32android:layout_marginStart="29.88dp"

33android:layout_marginLeft="26.88dp"

34android:layout_marginTop="15.68dp"

35android:padding="6.58dp"

36android:src="@drawable/ic_back"

37app:layout_constraintStart_toStartOf="parent"


activity_chat.xml


0dp

Pixel

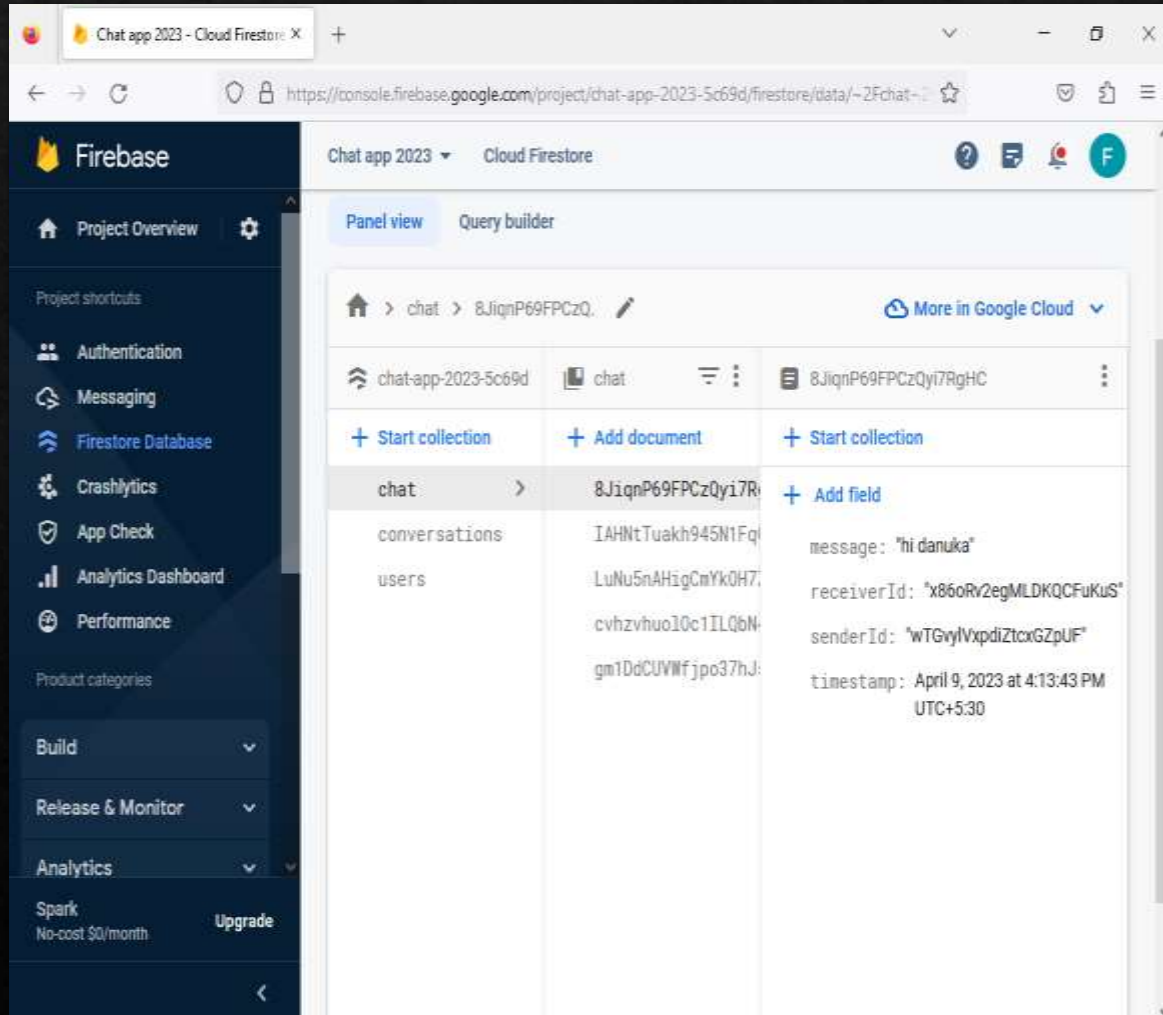
Attributes

Component Tree





Database (Firebase)



Chat app 2023 - Cloud Firestore

Panel view Query builder

chat > 8JiqnP69FPCzQ

chat-app-2023-5c69d chat 8JiqnP69FPCzQy17RgHC

+ Start collection + Add document + Start collection

chat > 8JiqnP69FPCzQy17RgHC + Add field

conversations IAHNtTuakh945N1Fq...

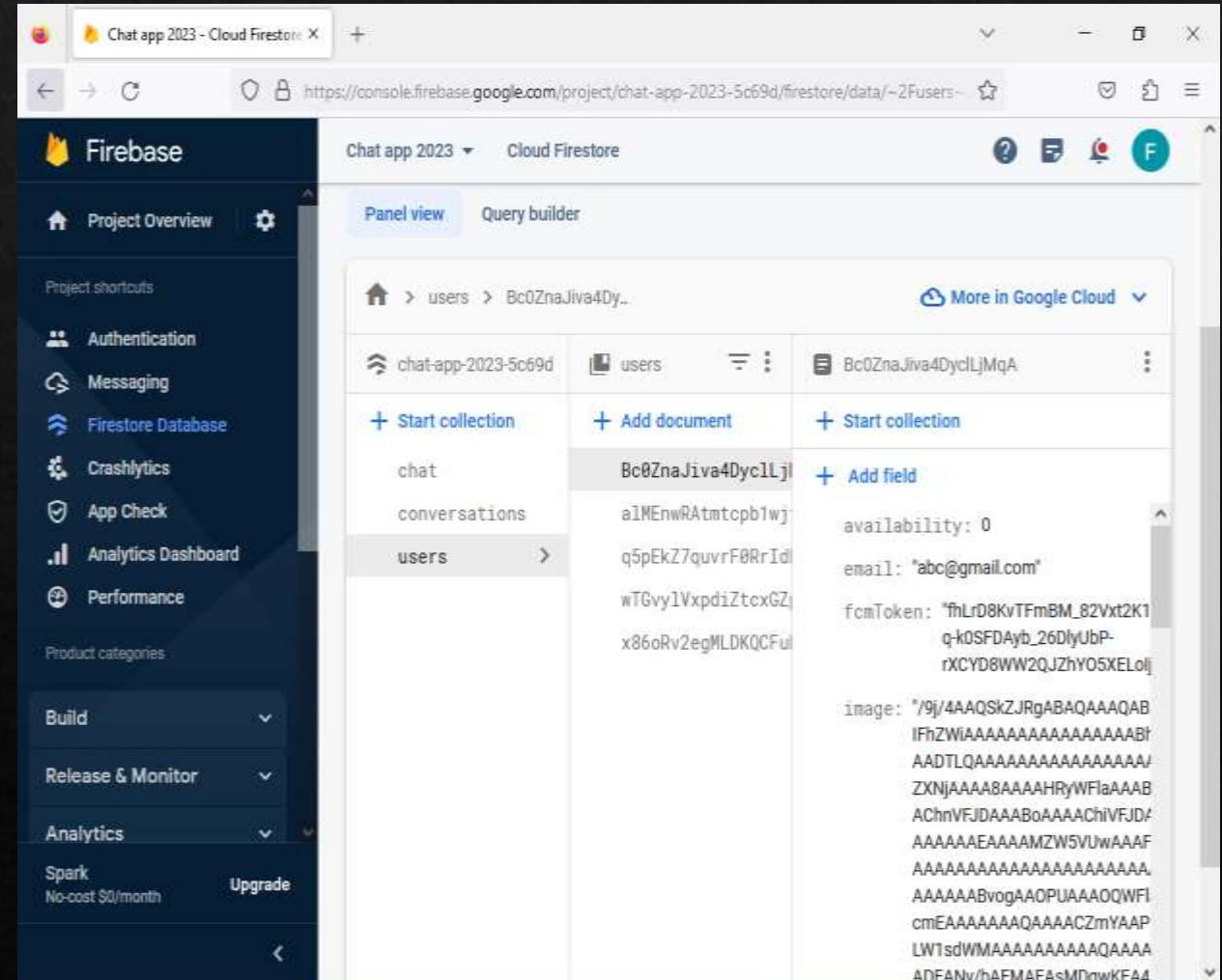
users LuNu5nAHigCmYk0H7...

message: "hi danuka"

receiverId: "x86oRv2egMLDKQCFuKuS"

senderId: "wTGvy1VxpdiZtcxGZpUf"

timestamp: April 9, 2023 at 4:13:43 PM UTC+5:30



Chat app 2023 - Cloud Firestore

Panel view Query builder

users > Bc0ZnaJiva4Dy...

chat-app-2023-5c69d users Bc0ZnaJiva4DyLjMqA

+ Start collection + Add document + Start collection

chat Bc0ZnaJiva4DyLjMqA + Add field

conversations a1MEwRAtmtcpb1wj...

users > q5pEkZ7quvrF0RrId...

availability: 0

email: "abc@gmail.com"

fcmToken: "fhLrD8KvTfM8M_82Vxt2K1q-k0SFDAyb_26DlyUbP-rXCyD8WW2QJzhY05XELolj"

image: "/9j/4AAQSkZJRgABAQAAQABAFhZWIAAAAAAAAAAAAAAABfAADTLQAAAAAAAAAAAAA/ZXNjAAAA8AAAAHRYWFlaAAABACHnVFJDAABBoAAAAChivFJD/AAAAAAAAEAAAMZW5UwAAAFAAAAAAAAAAAAAAAAAAAAAABvogaAOPUAAAOQWFIcmEAAAAAAAAQAAACZmYAAPLW1sdWMAAAAAAAAAQAAAAADFANv/bAEMAEAsMDQwKEA4



Thank You