

activity_dashboard.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    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:orientation="vertical"
    android:gravity="center"
    tools:context=".DashboardActivity">

    <FrameLayout
        android:id="@+id/content"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1">
    </FrameLayout>

    <com.google.android.material.bottomnavigation.BottomNavigationView
        android:id="@+id/navigation"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom"
        android:background="?android:attr/windowBackground"
        app:menu="@menu/menu_nav">
    </com.google.android.material.bottomnavigation.BottomNavigationView>
</LinearLayout>
```

fragment_home.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".HomeFragment">

    <androidx.recyclerview.widget.RecyclerView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/postsRecyclerview"/>

</FrameLayout>
```

fragment_profile.xml:

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

```
android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="#F1EDED"
tools:context=".ProfileFragment">
```

```
<ScrollView
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
```

```
<RelativeLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
```

```
<ImageView
```

```
    android:id="@+id/coverIv"
    android:layout_width="match_parent"
    android:layout_height="180dp"
    android:scaleType="fitXY"
    android:background="@color/colorPrimaryDark">
```

```
</ImageView>
```

```
<LinearLayout
```

```
    android:id="@+id/linearLayout"
    android:layout_width="match_parent"
    android:layout_height="120dp"
    android:orientation="horizontal"
    android:layout_marginTop="100dp">
```

```
<ImageView
```

```
    android:id="@+id/avatarIv"
    android:layout_marginStart="20dp"
    android:background="@color/colorPrimary"
    android:src="@drawable/ic_default_img_white"
    android:padding="5dp"
    android:layout_width="120dp"
    android:layout_height="120dp"
    android:layout_marginLeft="20dp"/>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:background="#77000000">
```

```
<TextView
```

```
    android:id="@+id/nameTv"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="5dp"
    android:layout_marginTop="5dp"
```

```
        android:textSize="25sp"
        android:layout_marginLeft="5dp"
        android:textColor="@color/colorWhite"/>
```

```
<TextView
    android:id="@+id/emailTv"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="5dp"
    android:layout_marginLeft="5dp"
    android:textColor="@color/colorWhite"/>
```

```
<TextView
    android:id="@+id/phoneTv"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="5dp"
    android:layout_marginLeft="5dp"
    android:textColor="@color/colorWhite"/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recyclerview_posts"
    android:layout_below="@+id/linearLayout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/>
```

```
</RelativeLayout>
```

```
</ScrollView>
```

```
<com.google.android.material.floatingactionbutton.FloatingActionButton
    android:id="@+id/fab"
    android:src="@drawable/ic_edit_white"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentEnd="true"
    android:layout_margin="10dp"
    android:layout_alignParentRight="true"/>
```

```
</RelativeLayout>
```

fragment_users.xml:

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

```
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".UsersFragment">
```

```
<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/users_recyclerView"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
```

```
</androidx.recyclerview.widget.RecyclerView>
```

```
</FrameLayout>
```

fragment_chat_list.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    tools:context=".ChatListFragment">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        tools:listitem="@layout/row_chatlist"
        app:layoutManager="androidx.recyclerview.widget.LinearLayoutManager"/>

</FrameLayout>
```

activity_add_post.xml:

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

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="2dp"
        android:orientation="vertical">

        <EditText
            android:id="@+id/pTitleEt"
```

```
    android:background="@drawable/edittextstyle"
    android:padding="10dp"
    android:hint="Enter Title"
    android:singleLine="true"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />
```

```
<ImageView
    android:id="@+id/pImageIv"
    android:background="@color/colorPrimary"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:minHeight="200dp"/>
```

```
<EditText
    android:id="@+id/pDescriptionEt"
    android:background="@drawable/edittextstyle"
    android:padding="10dp"
    android:hint="Enter Title"
    android:inputType="textCapSentences|textMultiLine"
    android:minHeight="120dp"
    android:gravity="start"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />
```

```
<Button
    android:id="@+id/pUploadBtn"
    style="@style/Widget.AppCompat.Button.Colored"
    android:text="Upload"
    android:layout_gravity="end"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>
```

```
</ScrollView>
```

activity_chat.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    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="#F1EDED"
    tools:context=".ChatActivity">

    <androidx.appcompat.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"
```

```
android:layout_height="?android:attr/actionBarSize"
android:background="@color/colorPrimaryDark"
android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">
```

```
<com.blogspot.atifsoftwares.circularimageview.CircularImageView
    android:id="@+id/profileIv"
    android:layout_width="35dp"
    android:layout_height="35dp"
    android:scaleType="centerCrop"
    android:layout_marginRight="4dp"
    android:src="@drawable/ic_default_img_white"
    app:c_background_color="@color/colorPrimaryDark"/>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout_marginStart="20dp"
    android:layout_marginLeft="20dp"
    android:gravity="center">
```

```
<TextView
    android:id="@+id/nameIv"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="His Name"
    android:textColor="@color/colorWhite"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<TextView
    android:id="@+id/userStatusTv"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="online"
    android:textColor="@color/colorWhite"
    android:textStyle="bold"/>
```

```
</LinearLayout>
```

```
</androidx.appcompat.widget.Toolbar>
```

```
<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/chat_recyclerView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/toolbar"
    android:layout_above="@+id/chatLayout"/>
```

```
<LinearLayout
    android:id="@+id/chatLayout"
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_alignParentBottom="true"
android:background="@color/colorWhite"
android:gravity="center"
android:orientation="horizontal">
```

```
<EditText
    android:id="@+id/messageEt"
    android:layout_weight="1"
    android:background="@null"
    android:hint="Start typing..."
    android:padding="15dp"
    android:inputType="textCapSentences|textMultiLine"
    android:layout_width="0dp"
    android:layout_height="wrap_content" />
```

```
<ImageButton
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:id="@+id/sendBtn"
    android:background="@null"
    android:src="@drawable/ic_send"/>
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

activity_post_detail.xml:

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

    <androidx.core.widget.NestedScrollView
        android:layout_above="@id/commentsLayout"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <androidx.cardview.widget.CardView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
```

```
app:cardCornerRadius="3dp"
app:cardElevation="3dp"
app:contentPadding="5dp"
app:cardUseCompatPadding="true"
app:cardBackgroundColor="@color/colorWhite">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
```

```
<LinearLayout
    android:id="@+id/profileLayout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center_vertical">
```

```
<com.blogspot.atifsoftwares.circularimageview.CircularImageView
    android:id="@+id/uPictureIv"
    android:scaleType="centerCrop"
    android:src="@drawable/ic_default_img"
    android:layout_width="50dp"
    android:layout_height="50dp" />
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout_weight="1">
```

```
<TextView
    android:id="@+id/uNameTv"
    android:text="Name"
    android:textColor="@color/colorBlack"
    android:textSize="20sp"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
<TextView
    android:id="@+id/pTimeTv"
    android:text="33 min"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>
```

```
<ImageButton
    android:id="@+id/moreBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```



```
        android:background="@null"
        android:src="@drawable/ic_more_black"/>
```

```
</LinearLayout>
```

```
<TextView
    android:id="@+id/pTitleTv"
    android:textSize="16sp"
    android:textStyle="bold"
    android:text="Title"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:autoLink="all"/>
```

```
<TextView
    android:id="@+id/pDescriptionTv"
    android:text="The description of the post"
    android:textColor="@color/colorBlack"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:autoLink="all"/>
```

```
<ImageView
    android:id="@+id/pImageIv"
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:background="@color/colorWhite"/>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/pLikesTv"
    android:text="1.2k Accepted"
    android:layout_weight="1"
    android:textColor="@color/colorPrimary"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
<TextView
    android:id="@+id/pCommentsTv"
    android:text="1.2k Comments"
    android:layout_weight="1"
    android:textAlignment="textEnd"
    android:gravity="end"
    android:textColor="@color/colorPrimary"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

</LinearLayout>

<View

 android:layout_width="match_parent"
 android:layout_height="1dp"
 android:background="#F5F0F0"/>

<LinearLayout

 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:orientation="horizontal"
 android:gravity="center">

 <Button

 android:id="@+id/likeBtn"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_weight="1"
 android:text="Accept"
 android:drawableLeft="@drawable/ic_accept_black"
 android:drawableStart="@drawable/ic_accept_black"
 android:drawablePadding="5dp"
 android:background="@color/colorWhite"/>

 <Button

 android:id="@+id/shareBtn"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_weight="1"
 android:text="Share"
 android:drawableLeft="@drawable/ic_share_black"
 android:drawableStart="@drawable/ic_share_black"
 android:drawablePadding="5dp"
 android:background="@color/colorWhite"/>

</LinearLayout>

</LinearLayout>

</androidx.cardview.widget.CardView>

<TextView

 android:text="Comments"
 android:textColor="@color/colorBlack"
 android:drawableStart="@drawable/ic_comment_black"
 android:drawablePadding="5dp"
 android:padding="2dp"
 android:drawableLeft="@drawable/ic_comment_black"
 android:layout_width="match_parent"
 android:layout_height="wrap_content" />

```

        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/recyclerView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
    </LinearLayout>

</androidx.core.widget.NestedScrollView>

<RelativeLayout
    android:id="@+id/commentsLayout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true">

    <com.blogspot.atifsoftwares.circularimageview.CircularImageView
        android:layout_width="50dp"
        android:layout_height="50dp"
        android:id="@+id/cAvatarIv"
        android:src="@drawable/ic_default_img"/>

    <EditText
        android:id="@+id/commentEt"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_toEndOf="@+id/cAvatarIv"
        android:layout_toStartOf="@+id/sendBtn"
        android:background="@color/colorWhite"
        android:padding="10dp"
        android:hint="Enter comment..."
        android:inputType="textCapSentences|textMultiLine"
        android:layout_centerVertical="true"
        android:layout_margin="1dp"
        android:layout_toRightOf="@+id/cAvatarIv"
        android:layout_toLeftOf="@+id/sendBtn"/>

    <ImageButton
        android:layout_centerVertical="true"
        android:background="@color/colorWhite"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/sendBtn"
        android:layout_alignParentEnd="true"
        android:src="@drawable/ic_send"
        android:layout_alignParentRight="true"/>
</RelativeLayout>

</RelativeLayout>

```

activity_there_profile.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#F1EDED"
    tools:context=".ThereProfileActivity">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <ImageView
            android:id="@+id/coverIv"
            android:layout_width="match_parent"
            android:layout_height="180dp"
            android:scaleType="fitXY"
            android:background="@color/colorPrimaryDark">

        </ImageView>

        <LinearLayout
            android:id="@+id/linearLayout"
            android:layout_width="match_parent"
            android:layout_height="120dp"
            android:orientation="horizontal"
            android:layout_marginTop="100dp">

            <ImageView
                android:id="@+id/avatarIv"
                android:layout_marginStart="20dp"
                android:background="@color/colorPrimary"
                android:src="@drawable/ic_default_img_white"
                android:padding="5dp"
                android:layout_width="120dp"
                android:layout_height="120dp"
                android:layout_marginLeft="20dp"/>

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical">

                <TextView
                    android:id="@+id/nameTv"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_marginStart="5dp"
                    android:layout_marginTop="5dp"
                    android:textSize="25sp"
                    android:layout_marginLeft="5dp"

```

```

        android:textColor="@color/colorWhite"/>

        <TextView
            android:id="@+id/emailTv"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginStart="5dp"
            android:layout_marginLeft="5dp"
            android:textColor="@color/colorWhite"/>

        <TextView
            android:id="@+id/phoneTv"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginStart="5dp"
            android:layout_marginLeft="5dp"
            android:textColor="@color/colorWhite"/>

    </LinearLayout>

</LinearLayout>

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recyclerview_posts"
    android:layout_below="@+id/linearLayout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"/>

</RelativeLayout>

</ScrollView>

```

row_chat_left.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/messageLayout"
    android:padding="10dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <com.blogspot.atifsoftwares.circularimageview.CircularImageView

```

```
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:id="@+id/profileIv"
    app:c_border_color="@null"
    android:src="@drawable/ic_default_img"/>
```

```
<TextView
    android:id="@+id/messageTv"
    android:layout_weight="1"
    android:textSize="16sp"
    android:textColor="@color/colorBlack"
    android:background="@drawable/bg_receiver"
    android:padding="15dp"
    android:text="His Message"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
<TextView
    android:id="@+id/timeTv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="02/03/2019 05:59PM"
    android:textColor="@color/colorBlack"
    android:textSize="12sp"/>
```

```
</LinearLayout>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/isSeenTv"
    android:visibility="gone"
    android:gravity="end"
    android:textAlignment="textEnd"
    android:text="delivered"/>
```

```
</LinearLayout>
```

row_chat_right.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/messageLayout"
    android:padding="10dp">

    <LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal">
```

```
<com.blogspot.atifsoftwares.circularimageview.CircularImageView
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:id="@+id/profileIv"
    app:c_border_color="@null"
    android:visibility="gone"
    android:src="@drawable/ic_default_img"/>
```

```
<TextView
    android:id="@+id/timeTv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="02/03/2019 05:59PM"
    android:textColor="@color/colorBlack"
    android:textSize="12sp"/>
```

```
<TextView
    android:id="@+id/messageTv"
    android:layout_weight="1"
    android:textSize="16sp"
    android:textColor="@color/colorBlack"
    android:background="@drawable/bg_sender"
    android:padding="15dp"
    android:text="His Message"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/isSeenTv"
    android:gravity="end"
    android:textAlignment="textEnd"
    android:text="delivered"/>
```

```
</LinearLayout>
```

row_chatlist.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
```

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

```
<RelativeLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content">
```

```
    <com.blogspot.atifsoftwares.circularimageview.CircularImageView  
        android:id="@+id/profileIv"  
        android:layout_width="70dp"  
        android:layout_height="70dp"  
        android:src="@drawable/ic_default_img"/>
```

```
    <ImageView  
        android:id="@+id/onlineStatusIv"  
        android:layout_width="25dp"  
        android:layout_height="25dp" />
```

```
    <TextView  
        android:id="@+id/nameTv"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:text="His Name"  
        android:layout_marginStart="4dp"  
        android:layout_marginLeft="3dp"  
        android:textColor="@color/colorBlack"  
        android:textSize="18sp"  
        android:layout_toEndOf="@+id/profileIv"  
        android:layout_toRightOf="@+id/profileIv"/>
```

```
    <TextView  
        android:id="@+id/lastMessageTv"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:text="The last message"  
        android:maxLines="2"  
        android:layout_marginTop="3dp"  
        android:layout_marginStart="4dp"  
        android:layout_marginLeft="4dp"  
        android:layout_toEndOf="@+id/profileIv"  
        android:layout_toRightOf="@+id/profileIv"  
        android:layout_below="@+id/nameTv"/>
```

```
</RelativeLayout>
```

```
</androidx.cardview.widget.CardView>
```

row_comments.xml:


```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_margin="1dp"
    app:contentPadding="2dp"
    app:cardBackgroundColor="@color/colorWhite">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <com.blogspot.atifsoftwares.circularimageview.CircularImageView
            android:id="@+id/avatarIv"
            android:layout_width="40dp"
            android:layout_height="40dp"
            android:layout_marginEnd="5dp"
            android:layout_marginRight="5dp"
            android:src="@drawable/ic_default_img"/>

        <TextView
            android:id="@+id/nameTv"
            android:layout_toRightOf="@+id/avatarIv"
            android:text="Bhargav"
            android:textColor="@color/colorBlack"
            android:textSize="16sp"
            android:textStyle="bold"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />

        <TextView
            android:id="@+id/commentTv"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/nameTv"
            android:layout_toEndOf="@+id/avatarIv"
            android:text="This is actual comment"
            android:layout_toRightOf="@+id/avatarIv"
            android:textColor="@color/colorBlack"/>

        <TextView
            android:id="@+id/timeTv"
            android:text="12/06/2019"
            android:layout_below="@+id/commentTv"
            android:layout_toEndOf="@+id/avatarIv"
            android:layout_toRightOf="@+id/avatarIv"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content" />

```

</RelativeLayout>

</androidx.cardview.widget.CardView>

row_posts.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    app:cardCornerRadius="3dp"
    app:cardElevation="3dp"
    app:contentPadding="5dp"
    app:cardUseCompatPadding="true"
    app:cardBackgroundColor="@color/colorWhite">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">

        <LinearLayout
            android:id="@+id/profileLayout"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal"
            android:gravity="center_vertical">

            <com.blogspot.atifsoftwares.circularimageview.CircularImageView
                android:id="@+id/uPictureIv"
                android:scaleType="centerCrop"
                android:src="@drawable/ic_default_img"
                android:layout_width="50dp"
                android:layout_height="50dp" />

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical"
                android:layout_weight="1">

                <TextView
                    android:id="@+id/uNameTv"
                    android:text="Name"
                    android:textColor="@color/colorBlack"
                    android:textSize="20sp"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content" />
            </LinearLayout>
        </LinearLayout>
    </CardView>
```

```
<TextView
    android:id="@+id/pTimeTv"
    android:text="33 min"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />

</LinearLayout>

<ImageButton
    android:id="@+id/moreBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="@null"
    android:src="@drawable/ic_more_black"/>

</LinearLayout>

<TextView
    android:id="@+id/pTitleTv"
    android:textSize="16sp"
    android:textStyle="bold"
    android:text="Title"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:autoLink="all"/>

<TextView
    android:id="@+id/pDescriptionTv"
    android:text="The description of the post"
    android:textColor="@color/colorBlack"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:autoLink="all"/>

<ImageView
    android:id="@+id/pImageIv"
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:background="@color/colorWhite"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <TextView
        android:id="@+id/pLikesTv"
        android:text="1.2k Accepted"
        android:layout_weight="1"
        android:textColor="@color/colorPrimary"
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
<TextView
    android:id="@+id/pCommentsTv"
    android:text="1.2k Comments"
    android:layout_weight="1"
    android:textAlignment="textEnd"
    android:gravity="end"
    android:textColor="@color/colorPrimary"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />
```

```
</LinearLayout>
```

```
<View
    android:layout_width="match_parent"
    android:layout_height="1dp"
    android:background="#F5F0F0"/>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
```

```
<Button
    android:id="@+id/likeBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Accept"
    android:drawableLeft="@drawable/ic_accept_black"
    android:drawableStart="@drawable/ic_accept_black"
    android:drawablePadding="5dp"
    android:background="@color/colorWhite"/>
```

```
<Button
    android:id="@+id/commentBtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Comment"
    android:drawableLeft="@drawable/ic_comment_black"
    android:drawableStart="@drawable/ic_comment_black"
    android:drawablePadding="5dp"
    android:background="@color/colorWhite"/>
```

```
<Button
    android:id="@+id/shareBtn"
    android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Share"
        android:drawableLeft="@drawable/ic_share_black"
        android:drawableStart="@drawable/ic_share_black"
        android:drawablePadding="5dp"
        android:background="@color/colorWhite"/>
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

row_users.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    app:cardUseCompatPadding="true"
    app:cardCornerRadius="2dp"
    app:cardElevation="2dp"
    app:cardBackgroundColor="@color/colorWhite"
    app:contentPadding="3dp">

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="70dp"
        android:orientation="horizontal">

        <com.blogspot.atifsoftwares.circularimageview.CircularImageView
            android:id="@+id/avatarIv"
            android:src="@drawable/ic_default_img"
            android:layout_marginRight="5dp"
            android:layout_width="70dp"
            android:layout_height="70dp" />

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <TextView
                android:id="@+id/nameTv"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Person Name"
                android:textSize="18sp"
```

```

        android:textColor="@color/colorBlack"/>
    <TextView
        android:id="@+id/emailTv"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Person Email"
        android:textColor="@color/colorBlack"/>
    </LinearLayout>

</LinearLayout>

</androidx.cardview.widget.CardView>

```

Java Folder:

DashboardActivity.java:

```

package com.bhargav.verifyproject;

import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBar;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentTransaction;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.MenuItem;

import com.bhargav.verifyproject.notifications.Token;
import com.google.android.material.bottomnavigation.BottomNavigationView;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.iid.FirebaseInstanceId;

public class DashboardActivity extends AppCompatActivity {

    FirebaseAuth firebaseAuth;

    ActionBar actionBar;

    String mUID;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }

```

```

setContentView(R.layout.activity_dashboard);

actionBar = getSupportActionBar();
actionBar.setTitle("Profile");

firebaseAuth = FirebaseAuth.getInstance();

BottomNavigationView navigationView = findViewById(R.id.navigation);
navigationView.setOnNavigationItemSelectedListener(selectedListener);

actionBar.setTitle("Home");
HomeFragment fragment1 = new HomeFragment();
FragmentTransaction ft1 = getSupportFragmentManager().beginTransaction();
ft1.replace(R.id.content,fragment1,"");
ft1.commit();

checkUserStatus();
}

@Override
protected void onResume() {
    checkUserStatus();
    super.onResume();
}

public void updateToken(String token) {
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Tokens");
    Token mToken = new Token(token);
    ref.child(mUID).setValue(mToken);
}

private BottomNavigationView.OnNavigationItemSelectedListener selectedListener =
    new BottomNavigationView.OnNavigationItemSelectedListener() {
        @Override
        public boolean onNavigationItemSelected(@NonNull MenuItem menuItem) {
            switch (menuItem.getItemId()) {
                case R.id.nav_home:
                    actionBar.setTitle("Home");
                    HomeFragment fragment1 = new HomeFragment();
                    FragmentTransaction ft1 = getSupportFragmentManager().beginTransaction();
                    ft1.replace(R.id.content,fragment1,"");
                    ft1.commit();
                    return true;
                case R.id.nav_profile:
                    actionBar.setTitle("Profile");
                    ProfileFragment fragment2 = new ProfileFragment();
                    FragmentTransaction ft2 = getSupportFragmentManager().beginTransaction();
                    ft2.replace(R.id.content,fragment2,"");
                    ft2.commit();
                    return true;
                case R.id.nav_users:

```

```

        actionBar.setTitle("Users");
        UsersFragment fragment3 = new UsersFragment();
        FragmentTransaction ft3 = getSupportFragmentManager().beginTransaction();
        ft3.replace(R.id.content, fragment3, "");
        ft3.commit();
        return true;
    case R.id.nav_chat:
        actionBar.setTitle("Chats");
        ChatListFragment fragment4 = new ChatListFragment();
        FragmentTransaction ft4 = getSupportFragmentManager().beginTransaction();
        ft4.replace(R.id.content, fragment4, "");
        ft4.commit();
        return true;
    }
    return false;
}
};

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if (user != null) {
        mUID = user.getId();

        SharedPreferences sp = getSharedPreferences("SP_USER", MODE_PRIVATE);
        SharedPreferences.Editor editor = sp.edit();
        editor.putString("Current_USERID", mUID);
        editor.apply();

        updateToken(FirebaseInstanceId.getInstance().getToken());
    }
    else {
        startActivity(new Intent(DashboardActivity.this, MainActivity.class));
        finish();
    }
}

@Override
public void onBackPressed() {
    super.onBackPressed();
    finish();
}

protected void onStart() {
    checkUserStatus();
    super.onStart();
}

}

```

HomeFragment.java:


```
package com.bhargav.verifyproject;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.annotation.Nullable;
```

```
import androidx.core.view.MenuItemCompat;
```

```
import androidx.fragment.app.Fragment;
```

```
import androidx.recyclerview.widget.LinearLayoutManager;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import android.text.TextUtils;
```

```
import android.view.LayoutInflater;
```

```
import android.view.Menu;
```

```
import android.view.MenuInflater;
```

```
import android.view.MenuItem;
```

```
import android.view.View;
```

```
import android.view.ViewGroup;
```

```
import android.widget.SearchView;
```

```
import android.widget.Toast;
```

```
import com.bhargav.verifyproject.adapters.AdapterPosts;
```

```
import com.bhargav.verifyproject.models.ModelPost;
```

```
import com.google.firebase.auth.FirebaseAuth;
```

```
import com.google.firebase.auth.FirebaseUser;
```

```
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;
```

```
import java.util.List;
```

```
/**
```

```
 * A simple {@link Fragment} subclass.
```

```
 */
```

```
public class HomeFragment extends Fragment {
```

```
    FirebaseAuth firebaseAuth;
```

```
    RecyclerView recyclerView;
```

```
    List<ModelPost> postList;
```

```
    AdapterPosts adapterPosts;
```

```
public HomeFragment() {
```

```
    // Required empty public constructor
```

```
}
```

```
@Override
```

```
public View onCreateView(LayoutInflater inflater, ViewGroup container,
    Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    View view = inflater.inflate(R.layout.fragment_home, container, false);

    firebaseAuth = FirebaseAuth.getInstance();

    recyclerView = view.findViewById(R.id.postsRecyclerview);
    LinearLayoutManager layoutManager = new LinearLayoutManager(getActivity());

    layoutManager.setStackFromEnd(true);
    layoutManager.setReverseLayout(true);

    recyclerView.setLayoutManager(layoutManager);

    postList = new ArrayList<>();

    loadPosts();

    return view;
}
```

```
private void loadPosts() {
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
    ref.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            postList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelPost modelPost = ds.getValue(ModelPost.class);
                postList.add(modelPost);
                adapterPosts = new AdapterPosts(getActivity(), postList);
                recyclerView.setAdapter(adapterPosts);
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {
            Toast.makeText(getActivity(), ""+databaseError.getMessage(),
                Toast.LENGTH_SHORT).show();
        }
    });
}
```

```
private void searchPosts(final String searchQuery) {
```

```

DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
ref.addValueEventListener(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
        postList.clear();
        for (DataSnapshot ds: dataSnapshot.getChildren()) {
            ModelPost modelPost = ds.getValue(ModelPost.class);

            if(modelPost.getTitle().toLowerCase().contains(searchQuery.toLowerCase()) ||
                modelPost.getpDescr().toLowerCase().contains(searchQuery.toLowerCase())) {
                postList.add(modelPost);
            }
            adapterPosts = new AdapterPosts(getActivity(), postList);
            recyclerView.setAdapter(adapterPosts);
        }
    }

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {
        Toast.makeText(getActivity(), ""+databaseError.getMessage(),
Toast.LENGTH_SHORT).show();
    }
});
}

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if(user != null) {

    }
    else {
        startActivity(new Intent(getActivity(), MainActivity.class));
        getActivity().finish();
    }
}

@Override
public void onCreate(@Nullable Bundle savedInstanceState) {
    setHasOptionsMenu(true);
    super.onCreate(savedInstanceState);
}

@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    inflater.inflate(R.menu.menu_main, menu);

    MenuItem item = menu.findItem(R.id.action_search);
    SearchView searchView = (SearchView) MenuItemCompat.getActionView(item);

    searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
        @Override

```

```

    public boolean onQueryTextSubmit(String s) {
        if(!TextUtils.isEmpty(s)) {
            searchPosts(s);
        }
        else {
            loadPosts();
        }
        return false;
    }

    @Override
    public boolean onQueryTextChange(String s) {
        if(!TextUtils.isEmpty(s)) {
            searchPosts(s);
        }
        else {
            loadPosts();
        }
        return false;
    }
});

super.onCreateOptionsMenu(menu, inflater);
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if(id == R.id.action_logout) {
        firebaseAuth.signOut();
        checkUserStatus();
    }
    if(id == R.id.action_add_post) {
        startActivity(new Intent(getActivity(), AddPostActivity.class));
    }
    return super.onOptionsItemSelected(item);
}
}

```

ProfileFragment.java:

```

package com.bhargav.verifyproject;

import android.Manifest;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.ContentValues;
import android.content.DialogInterface;

```

```
import android.content.Intent;
import android.content.pm.PackageManager;
import android.net.Uri;
import android.os.Bundle;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.core.content.ContextCompat;
import androidx.core.view.MenuItemCompat;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
```

```
import android.provider.MediaStore;
import android.text.TextUtils;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.SearchView;
import android.widget.TextView;
import android.widget.Toast;
```

```
import com.bhargav.verifyproject.adapters.AdapterPosts;
import com.bhargav.verifyproject.models.ModelPost;
import com.bhargav.verifyproject.notifications.Data;
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.gms.tasks.Task;
import com.google.android.material.floatingactionbutton.FloatingActionButton;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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.Query;
import com.google.firebase.database.ValueEventListener;
import com.google.firebase.storage.StorageReference;
import com.google.firebase.storage.UploadTask;
import com.squareup.picasso.Picasso;
```

```
import java.security.Key;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
```

```

import static android.app.Activity.RESULT_OK;
import static com.google.firebase.storage.FirebaseStorage.getInstance;

/**
 * A simple {@link Fragment} subclass.
 */
public class ProfileFragment extends Fragment {

    FirebaseAuth firebaseAuth;
    FirebaseUser user;
    FirebaseDatabase firebaseDatabase;
    DatabaseReference databaseReference;

    StorageReference storageReference;

    String storagePath = "Users_Profile_Cover_Imags/";

    ImageView avatarIv,coverIv;
    TextView nameTv,emailTv,phoneTv;
    FloatingActionButton fab;
    RecyclerView postRecyclerView;

    ProgressDialog pd;

    private static final int CAMERA_REQUEST_CODE = 100;
    private static final int STORAGE_REQUEST_CODE = 200;
    private static final int IMAGE_PICK_GALLERY_CODE = 300;
    private static final int IMAGE_PICK_CAMERA_CODE = 400;

    String cameraPermissions[];
    String storagePermissions[];

    List<ModelPost> postList;
    AdapterPosts adapterPosts;
    String uid;

    Uri image_uri;

    String profileOrCoverPhoto;

    public ProfileFragment() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment

```

```

View view = inflater.inflate(R.layout.fragment_profile,container,false);

firebaseAuth = FirebaseAuth.getInstance();
user = firebaseAuth.getCurrentUser();
firebaseDatabase = FirebaseDatabase.getInstance();
databaseReference = firebaseDatabase.getReference("Users");
storageReference = getInstance().getReference();

cameraPermissions = new String[]{Manifest.permission.CAMERA,
Manifest.permission.WRITE_EXTERNAL_STORAGE};
storagePermissions = new String[]{Manifest.permission.WRITE_EXTERNAL_STORAGE};

avatarIv = view.findViewById(R.id.avatarIv);
coverIv = view.findViewById(R.id.coverIv);
nameTv = view.findViewById(R.id.nameTv);
emailTv = view.findViewById(R.id.emailTv);
phoneTv = view.findViewById(R.id.phoneTv);
fab = view.findViewById(R.id.fab);
postRecyclerView = view.findViewById(R.id.recyclerview_posts);

pd = new ProgressDialog(getActivity());

Query query = databaseReference.orderByChild("email").equalTo(user.getEmail());
query.addValueEventListener(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
        for(DataSnapshot ds : dataSnapshot.getChildren()) {
            String name = ""+ds.child("name").getValue();
            String email = ""+ds.child("email").getValue();
            String phone = ""+ds.child("phone").getValue();
            String image = ""+ds.child("image").getValue();
            String cover = ""+ds.child("cover").getValue();

            nameTv.setText(name);
            emailTv.setText(email);
            phoneTv.setText(phone);

            try {
                Picasso.get().load(image).into(avatarIv);
            }
            catch(Exception e) {
                Picasso.get().load(R.drawable.ic_default_img_white).into(avatarIv);
            }

            try {
                Picasso.get().load(cover).into(coverIv);
            }
            catch(Exception e) {

            }
        }
    }
}

```

```

    }

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {

    }
});

fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        showEditProfileDialog();
    }
});

postList = new ArrayList<>();

checkUserStatus();
loadMyPosts();

return view;
}

private void loadMyPosts() {

    LinearLayoutManager layoutManager = new LinearLayoutManager(getActivity());
    layoutManager.setStackFromEnd(true);
    layoutManager.setReverseLayout(true);
    postRecyclerView.setLayoutManager(layoutManager);
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
    Query query = ref.orderByChild("uid").equalTo(uid);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            postList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelPost myPosts = ds.getValue(ModelPost.class);
                postList.add(myPosts);
                adapterPosts = new AdapterPosts(getActivity(), postList);
                postRecyclerView.setAdapter(adapterPosts);
            }
        }
    });

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {
        Toast.makeText(getActivity(), ""+databaseError.getMessage(),
        Toast.LENGTH_SHORT).show();
    }
});
}

```



```

private void searchMyPosts(final String searchQuery) {

    LinearLayoutManager layoutManager = new LinearLayoutManager(getActivity());
    layoutManager.setStackFromEnd(true);
    layoutManager.setReverseLayout(true);
    postRecyclerView.setLayoutManager(layoutManager);
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
    Query query = ref.orderByChild("uid").equalTo(uid);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            postList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelPost myPosts = ds.getValue(ModelPost.class);

                if(myPosts.getpTitle().toLowerCase().contains(searchQuery.toLowerCase()) ||
                myPosts.getpDescr().toLowerCase().contains(searchQuery.toLowerCase())) {
                    postList.add(myPosts);
                }

                postList.add(myPosts);
                adapterPosts = new AdapterPosts(getActivity(), postList);
                postRecyclerView.setAdapter(adapterPosts);
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {
            Toast.makeText(getActivity(), ""+databaseError.getMessage(),
            Toast.LENGTH_SHORT).show();
        }
    });
}

private boolean checkStoragePermission() {
    boolean result = ContextCompat.checkSelfPermission(getActivity(),
    Manifest.permission.WRITE_EXTERNAL_STORAGE)
    == (PackageManager.PERMISSION_GRANTED);
    return result;
}

private void requestStoragePermission() {
    requestPermissions(storagePermissions, STORAGE_REQUEST_CODE);
}

private boolean checkCameraPermission() {
    boolean result = ContextCompat.checkSelfPermission(getActivity(),
    Manifest.permission.CAMERA)
    == (PackageManager.PERMISSION_GRANTED);
    boolean result1 = ContextCompat.checkSelfPermission(getActivity(),
    Manifest.permission.CAMERA)

```

```

        == (PackageManager.PERMISSION_GRANTED);
    return result && result1;
}

private void requestCameraPermission() {
    requestPermissions(cameraPermissions, CAMERA_REQUEST_CODE);
}

private void showEditProfileDialog() {
    String options[] = {"Edit Profile Picture", "Edit Cover Photo", "Edit Name", "Edit Phone"};
    AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
    builder.setTitle("Choose Action");
    builder.setItems(options, new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            if(which == 0) {
                pd.setMessage("Updating Profile Picture");
                profileOrCoverPhoto = "image";
                showImagePicDialog();
            }
            else if(which == 1) {
                pd.setMessage("Updating Cover Picture");
                profileOrCoverPhoto = "cover";
                showImagePicDialog();
            }
            else if(which == 2) {
                pd.setMessage("Updating Name");
                showNamePhoneUpdateDialog("name");
            }
            else if(which == 3) {
                pd.setMessage("Updating Phone");
                showNamePhoneUpdateDialog("phone");
            }
        }
    });
    builder.create().show();
}

private void showNamePhoneUpdateDialog(final String key) {
    AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
    builder.setTitle("Update " + key);

    LinearLayout linearLayout = new LinearLayout(getActivity());
    linearLayout.setOrientation(LinearLayout.VERTICAL);
    linearLayout.setPadding(10,10,10,10);

    final EditText editText = new EditText(getActivity());
    editText.setHint("Enter " + key);
    linearLayout.addView(editText);

    builder.setView(linearLayout);
}

```

```

builder.setPositiveButton("Update", new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialog, int which) {
        final String value = editText.getText().toString().trim();
        if(!TextUtils.isEmpty(value)) {
            pd.show();
            HashMap<String, Object> result = new HashMap<>();
            result.put(key,value);

            databaseReference.child(user.getId()).updateChildren(result)
                .addOnSuccessListener(new OnSuccessListener<Void>() {
                    @Override
                    public void onSuccess(Void aVoid) {
                        pd.dismiss();
                        Toast.makeText(getActivity(),"Updated...",Toast.LENGTH_SHORT).show();
                    }
                })
                .addOnFailureListener(new OnFailureListener() {
                    @Override
                    public void onFailure(@NonNull Exception e) {
                        pd.dismiss();
                    }
                });

            Toast.makeText(getActivity(),""+e.getMessage(),Toast.LENGTH_SHORT).show();
        }
    });

    if (key.equals("name")) {
        DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
        Query query = ref.orderByChild("uid").equalTo(uid);
        query.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                for(DataSnapshot ds: dataSnapshot.getChildren()) {
                    String child = ds.getKey();
                    dataSnapshot.getRef().child(child).child("uName").setValue(value);
                }
            }

            @Override
            public void onCancelled(@NonNull DatabaseError databaseError) {

            }
        });

        ref.addListenerForSingleValueEvent(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                for (DataSnapshot ds: dataSnapshot.getChildren()) {
                    String child = ds.getKey();
                    if (dataSnapshot.child(child).hasChild("Comments")) {

```

```

        String child1 = ""+dataSnapshot.child(child).getKey();
        Query child2 =
        FirebaseDatabase.getInstance().getReference("Posts").child(child1).child("Comments").orderByChild(
"uid").equalTo(uid);
        child2.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                for (DataSnapshot ds: dataSnapshot.getChildren()) {
                    String child = ds.getKey();
                    dataSnapshot.getRef().child(child).child("uName").setValue(value);
                }
            }

            @Override
            public void onCancelled(@NonNull DatabaseError databaseError) {

            }
        });
    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}
});
}
}
else {
    Toast.makeText(getActivity(), "Please enter "+key, Toast.LENGTH_SHORT).show();
}
}
});
builder.setNegativeButton("Cancel", new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialog, int which) {
        dialog.dismiss();
    }
});

builder.create().show();
}

```

```

private void showImagePicDialog() {

```

```

    String options[] = {"Camera", "Gallery"};
    AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
    builder.setTitle("Pick Image From");
    builder.setItems(options, new DialogInterface.OnClickListener() {
        @Override

```

```

public void onClick(DialogInterface dialog, int which) {
    if(which == 0) {
        if(!checkCameraPermission()) {
            requestCameraPermission();
        }
        else {
            pickFromCamera();
        }
    }
    else if(which == 1) {
        if(!checkStoragePermission()) {
            requestStoragePermission();
        }
        else {
            pickFromGallery();
        }
    }
}
});
builder.create().show();
}

```

@Override

```

public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
@NonNull int[] grantResults) {
    switch(requestCode) {
        case CAMERA_REQUEST_CODE:{
            if(grantResults.length > 0) {
                boolean cameraAccepted= grantResults[0] ==
PackageManager.PERMISSION_GRANTED;
                boolean writeStorageAccepted= grantResults[1] ==
PackageManager.PERMISSION_GRANTED;
                if(cameraAccepted && writeStorageAccepted) {
                    pickFromCamera();
                }
                else {
                    Toast.makeText(getActivity(), "Please enable camera & storage
permmission",Toast.LENGTH_SHORT).show();
                }
            }
        }
        break;
        case STORAGE_REQUEST_CODE:{
            if(grantResults.length > 0) {
                boolean writeStorageAccepted= grantResults[0] ==
PackageManager.PERMISSION_GRANTED;
                if(writeStorageAccepted) {
                    pickFromGallery();
                }
                else {
                    Toast.makeText(getActivity(), "Please enable storage

```

```

        permission", Toast.LENGTH_SHORT).show();
    }
}
break;
}
}

```

@Override

```

public void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    if(resultCode == RESULT_OK) {
        if(requestCode == IMAGE_PICK_GALLERY_CODE) {
            image_uri = data.getData();
            uploadProfileCoverPhoto(image_uri);
        }
        if(requestCode == IMAGE_PICK_CAMERA_CODE) {
            uploadProfileCoverPhoto(image_uri);
        }
    }
    super.onActivityResult(requestCode, resultCode, data);
}

```

private void uploadProfileCoverPhoto(**final** Uri uri) {

pd.show();

String filePathAndName = **storagePath** + "" + **profileOrCoverPhoto** + "_" + **user**.getUid();

StorageReference storageReference2nd = **storageReference**.child(filePathAndName);

storageReference2nd.putFile(uri)

.addOnSuccessListener(**new** OnSuccessListener<UploadTask.TaskSnapshot>() {

@Override

public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {

Task<Uri> uriTask = taskSnapshot.getStorage().getDownloadUrl();

while (!uriTask.isSuccessful());

final Uri downloadUri = uriTask.getResult();

if(uriTask.isSuccessful()) {

HashMap<String, Object> results = **new** HashMap<>();

results.put(**profileOrCoverPhoto**, downloadUri.toString());

databaseReference.child(**user**.getUid()).updateChildren(results)

.addOnSuccessListener(**new** OnSuccessListener<Void>() {

@Override

public void onSuccess(Void aVoid) {

pd.dismiss();

Toast.makeText(getActivity(), "Image

Updated...", Toast.LENGTH_SHORT).show();

}

}).addOnFailureListener(**new** OnFailureListener() {

@Override

```

        public void onFailure(@NonNull Exception e) {
            pd.dismiss();
            Toast.makeText(getActivity(), "Error Updating
Image...", Toast.LENGTH_SHORT).show();
        }
    });

    if (profileOrCoverPhoto.equals("image")) {
        DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
        Query query = ref.orderByChild("uid").equalTo(uid);
        query.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                for (DataSnapshot ds: dataSnapshot.getChildren()) {
                    String child = ds.getKey();

                    dataSnapshot.getRef().child(child).child("uDp").setValue(downloadUri.toString());
                }
            }

            @Override
            public void onCancelled(@NonNull DatabaseError databaseError) {

            }
        });

        ref.addListenerForSingleValueEvent(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                for (DataSnapshot ds: dataSnapshot.getChildren()) {
                    String child = ds.getKey();
                    if (dataSnapshot.child(child).hasChild("Comments")) {
                        String child1 = ""+dataSnapshot.child(child).getKey();
                        Query child2 =
FirebaseDatabase.getInstance().getReference("Posts").child(child1).child("Comments").orderByChild(
"uid").equalTo(uid);

                        child2.addValueEventListener(new ValueEventListener() {
                            @Override
                            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                                for (DataSnapshot ds: dataSnapshot.getChildren()) {
                                    String child = ds.getKey();

                                    dataSnapshot.getRef().child(child).child("uDp").setValue(downloadUri.toString());
                                }
                            }

                            @Override
                            public void onCancelled(@NonNull DatabaseError databaseError) {

                            }
                        });
                    }
                }
            }
        });
    }
}

```

```

    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}

});
}
}
else {
    pd.dismiss();
    Toast.makeText(getActivity(), "Some error
occured", Toast.LENGTH_SHORT).show();
}
}
}).addOnFailureListener(new OnFailureListener() {
@Override
public void onFailure(@NonNull Exception e) {
    pd.dismiss();
    Toast.makeText(getActivity(), e.getMessage(), Toast.LENGTH_SHORT).show();
}
});
}

private void pickFromCamera() {
    ContentValues values = new ContentValues();
    values.put(MediaStore.Images.Media.TITLE, "Temp Pic");
    values.put(MediaStore.Images.Media.DESCRPTION, "Temp Description");

    image_uri =
getActivity().getContentResolver().insert(MediaStore.Images.Media.EXTERNAL_CONTENT_URI,
values);

    Intent cameraIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
    cameraIntent.putExtra(MediaStore.EXTRA_OUTPUT, image_uri);
    startActivityForResult(cameraIntent, IMAGE_PICK_CAMERA_CODE);
}

private void pickFromGallery() {
    Intent galleryIntent = new Intent(Intent.ACTION_PICK);
    galleryIntent.setType("image/*");
    startActivityForResult(galleryIntent, IMAGE_PICK_GALLERY_CODE);
}

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if(user != null) {
        uid = user.getId();
    }
}

```



```

    }
    else {
        startActivity(new Intent(getActivity(),MainActivity.class));
        getActivity().finish();
    }
}

```

```

@Override
public void onCreate(@Nullable Bundle savedInstanceState) {
    setHasOptionsMenu(true);
    super.onCreate(savedInstanceState);
}

```

```

@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    inflater.inflate(R.menu.menu_main,menu);

```

```

    MenuItem item = menu.findItem(R.id.action_search);
    SearchView searchView = (SearchView) MenuItemCompat.getActionView(item);
    searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {

```

```

        @Override
        public boolean onQueryTextSubmit(String s) {
            if(!TextUtils.isEmpty(s)) {
                searchMyPosts(s);
            }
            else {
                loadMyPosts();
            }
            return false;
        }
    }
}

```

```

        @Override
        public boolean onQueryTextChange(String s) {
            if(!TextUtils.isEmpty(s)) {
                searchMyPosts(s);
            }
            else {
                loadMyPosts();
            }
            return false;
        }
    }
});

```

```

    super.onCreateOptionsMenu(menu, inflater);
}

```

```

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if(id == R.id.action_logout) {
        firebaseAuth.signOut();
    }
}

```

```

        checkUserStatus();
    }
    if (id == R.id.action_add_post) {
        startActivity(new Intent(getActivity(), AddPostActivity.class));
    }
    return super.onOptionsItemSelected(item);
}
}

```

UsersFragment.java:

```

package com.bhargav.verifyproject;

import android.content.Intent;
import android.os.Bundle;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.core.view.MenuItemCompat;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.text.TextUtils;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.SearchView;

import com.bhargav.verifyproject.adapters.AdapterUsers;
import com.bhargav.verifyproject.models.ModelUser;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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;
import java.util.List;

/**
 * A simple {@link Fragment} subclass.
 */

```

```

public class UsersFragment extends Fragment {

    RecyclerView recyclerView;
    AdapterUsers adapterUsers;
    List<ModelUser> userList;

    FirebaseAuth firebaseAuth;

    public UsersFragment() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View view = inflater.inflate(R.layout.fragment_users, container, false);

        firebaseAuth = FirebaseAuth.getInstance();

        recyclerView = view.findViewById(R.id.users_recyclerView);
        recyclerView.setHasFixedSize(true);
        recyclerView.setLayoutManager(new LinearLayoutManager(getActivity()));

        userList = new ArrayList<>();

        getAllUsers();
        return view;
    }

    private void getAllUsers() {
        final FirebaseUser fUser = FirebaseAuth.getInstance().getCurrentUser();
        DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Users");
        ref.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                userList.clear();
                for(DataSnapshot ds: dataSnapshot.getChildren()) {
                    ModelUser modelUser = ds.getValue(ModelUser.class);
                    if(!modelUser.getId().equals(fUser.getId())) {
                        userList.add(modelUser);
                    }

                    adapterUsers = new AdapterUsers(getActivity(), userList);
                    recyclerView.setAdapter(adapterUsers);
                }
            }
        })

        @Override

```

```

        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void searchUsers(final String query) {
    final FirebaseUser fUser = FirebaseAuth.getInstance().getCurrentUser();
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Users");
    ref.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            userList.clear();
            for(DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelUser modelUser = ds.getValue(ModelUser.class);
                if(!modelUser.getId().equals(fUser.getId())) {

                    if(modelUser.getName().toLowerCase().contains(query.toLowerCase()) ||
                    modelUser.getEmail().toLowerCase().contains(query.toLowerCase())) {
                        userList.add(modelUser);
                    }
                    userList.add(modelUser);
                }

                adapterUsers = new AdapterUsers(getActivity(), userList);
                adapterUsers.notifyDataSetChanged();
                recyclerView.setAdapter(adapterUsers);
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if(user != null) {

    }
    else {
        startActivity(new Intent(getActivity(), MainActivity.class));
        getActivity().finish();
    }
}

@Override
public void onCreate(@Nullable Bundle savedInstanceState) {
    setHasOptionsMenu(true);
}

```

```

    super.onCreate(savedInstanceState);
}

@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    inflater.inflate(R.menu.menu_main,menu);

    menu.findItem(R.id.action_add_post).setVisible(false);

    MenuItem item = menu.findItem(R.id.action_search);
    SearchView searchView = (SearchView) MenuItemCompat.getActionView(item);
    searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
        @Override
        public boolean onQueryTextSubmit(String s) {
            if(!TextUtils.isEmpty(s.trim())) {
                searchUsers(s);
            }
            else {
                getAllUsers();
            }
            return false;
        }
    });

    @Override
    public boolean onQueryTextChange(String s) {
        if(!TextUtils.isEmpty(s.trim())) {
            searchUsers(s);
        }
        else {
            getAllUsers();
        }
        return false;
    }
});

super.onCreateOptionsMenu(menu, inflater);
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if(id == R.id.action_logout) {
        firebaseAuth.signOut();
        checkUserStatus();
    }
    return super.onOptionsItemSelected(item);
}
}

```

ChatlistFragment.java:

```
package com.bhargav.verifyproject;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.annotation.Nullable;
```

```
import androidx.core.view.MenuItemCompat;
```

```
import androidx.fragment.app.Fragment;
```

```
import androidx.recyclerview.widget.RecyclerView;
```

```
import android.text.TextUtils;
```

```
import android.view.LayoutInflater;
```

```
import android.view.Menu;
```

```
import android.view.MenuInflater;
```

```
import android.view.MenuItem;
```

```
import android.view.View;
```

```
import android.view.ViewGroup;
```

```
import android.widget.SearchView;
```

```
import com.bhargav.verifyproject.adapters.AdapterChatlist;
```

```
import com.bhargav.verifyproject.models.ModelChat;
```

```
import com.bhargav.verifyproject.models.ModelChatlist;
```

```
import com.bhargav.verifyproject.models.ModelUser;
```

```
import com.google.firebase.auth.FirebaseAuth;
```

```
import com.google.firebase.auth.FirebaseUser;
```

```
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;
```

```
import java.util.List;
```

```
/**
```

```
 * A simple {@link Fragment} subclass.
```

```
 */
```

```
public class ChatListFragment extends Fragment {
```

```
    FirebaseAuth firebaseAuth;
```

```
    RecyclerView recyclerView;
```

```
    List<ModelChatlist> chatlistList;
```

```
    List<ModelUser> userList;
```

```
    DatabaseReference reference;
```

```
    FirebaseUser currentUser;
```

```
    AdapterChatlist adapterChatlist;
```

```

public ChatListFragment() {
    // Required empty public constructor
}

@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
    Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    View view = inflater.inflate(R.layout.fragment_chat_list, container, false);

    firebaseAuth = FirebaseAuth.getInstance();

    currentUser = FirebaseAuth.getInstance().getCurrentUser();

    recyclerView = view.findViewById(R.id.recyclerView);

    chatlistList = new ArrayList<>();
    reference = FirebaseDatabase.getInstance().getReference("Chatlist").child(currentUser.getId());
    reference.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            chatlistList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelChatlist chatlist = ds.getValue(ModelChatlist.class);
                chatlistList.add(chatlist);
            }
            loadChats();
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });

    return view;
}

private void loadChats() {
    userList = new ArrayList<>();
    reference = FirebaseDatabase.getInstance().getReference("Users");
    reference.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            userList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelUser user = ds.getValue(ModelUser.class);
                for (ModelChatlist chatlist: chatlistList) {

```

```

        if (user.getId() != null && user.getId().equals(chatlist.getId())) {
            userList.add(user);
            break;
        }
    }

    adapterChatlist = new AdapterChatlist(getContext(), userList);
    recyclerView.setAdapter(adapterChatlist);
    for (int i=0; i<userList.size(); i++) {
        lastMessage(userList.get(i).getId());
    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}

});
}

private void lastMessage(final String userId) {
    DatabaseReference reference = FirebaseDatabase.getInstance().getReference("Chats");
    reference.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            String theLastMessage = "default";
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelChat chat = ds.getValue(ModelChat.class);
                if (chat==null) {
                    continue;
                }
                String sender = chat.getSender();
                String receiver = chat.getReceiver();
                if (sender == null || receiver == null) {
                    continue;
                }
                if (chat.getReceiver().equals(currentUser.getId()) &&
                    chat.getSender().equals(userId) ||
                    chat.getReceiver().equals(userId) &&
                    chat.getSender().equals(currentUser.getId())) {
                    theLastMessage = chat.getMessage();
                }
            }
            adapterChatlist.setLastMessageMap(userId, theLastMessage);
            adapterChatlist.notifyDataSetChanged();
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

```



```

    }
    });
}

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if(user != null) {

    }
    else {
        startActivity(new Intent(getActivity(),MainActivity.class));
        getActivity().finish();
    }
}

@Override
public void onCreate(@Nullable Bundle savedInstanceState) {
    setHasOptionsMenu(true);
    super.onCreate(savedInstanceState);
}

@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    inflater.inflate(R.menu.menu_main,menu);

    menu.findItem(R.id.action_add_post).setVisible(false);

    super.onCreateOptionsMenu(menu, inflater);
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if(id == R.id.action_logout) {
        firebaseAuth.signOut();
        checkUserStatus();
    }
    return super.onOptionsItemSelected(item);
}
}

```

AddPostActivity.java:

```

package com.bhargav.verifyproject;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.appcompat.app.ActionBar;

```

```
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;

import android.Manifest;
import android.app.ProgressDialog;
import android.content.ContentValues;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.net.Uri;
import android.os.Bundle;
import android.provider.MediaStore;
import android.text.TextUtils;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.Toast;

import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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.Query;
import com.google.firebase.database.ValueEventListener;
import com.google.firebase.storage.FirebaseStorage;
import com.google.firebase.storage.StorageReference;
import com.google.firebase.storage.UploadTask;
import com.squareup.picasso.Picasso;

import java.io.ByteArrayOutputStream;
import java.util.HashMap;

public class AddPostActivity extends AppCompatActivity {

    FirebaseAuth firebaseAuth;
    DatabaseReference userDbRef;

    ActionBar actionBar;
```

```

private static final int CAMERA_REQUEST_CODE = 100;
private static final int STORAGE_REQUEST_CODE = 200;

private static final int IMAGE_PICK_CAMERA_CODE = 300;
private static final int IMAGE_PICK_GALLERY_CODE = 400;

String[] cameraPermissions;
String[] storagePermissions;

EditText titleEt, descriptionEt;
ImageView imageIv;
Button uploadBtn;

String name, email, uid, dp;

String editTitle, editDescription, editImage;

Uri image_rui = null;

ProgressDialog pd;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_add_post);

    actionBar = getSupportActionBar();
    actionBar.setTitle("Add New Post");

    actionBar.setDisplayHomeAsUpEnabled(true);
    actionBar.setDisplayHomeAsUpEnabled(true);

    cameraPermissions = new String[]{Manifest.permission.CAMERA,
Manifest.permission.WRITE_EXTERNAL_STORAGE};
    storagePermissions = new String[]{Manifest.permission.WRITE_EXTERNAL_STORAGE};

    pd = new ProgressDialog(this);

    firebaseAuth = FirebaseAuth.getInstance();
    checkUserStatus();

    titleEt = findViewById(R.id.pTitleEt);
    descriptionEt = findViewById(R.id.pDescriptionEt);
    imageIv = findViewById(R.id.pImageIv);
    uploadBtn = findViewById(R.id.pUploadBtn);

    Intent intent = getIntent();
    final String isUpdateKey = ""+intent.getStringExtra("key");
    final String editPostId = ""+intent.getStringExtra("editPostId");

    if (isUpdateKey.equals("editPost")) {

```

```

        actionBar.setTitle("Update Post");
        uploadBtn.setText("Update");
        loadPostData(editPostId);
    }
    else {
        actionBar.setTitle("Add New Post");
        uploadBtn.setText("Upload");
    }

    actionBar.setSubtitle(email);

    userDbRef = FirebaseDatabase.getInstance().getReference("Users");
    Query query = userDbRef.orderByChild("email").equalTo(email);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                name = ""+ ds.child("name").getValue();
                email = ""+ ds.child("email").getValue();
                dp = ""+ ds.child("image").getValue();
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });

    imageView.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            showImagePickDialog();
        }
    });

    uploadBtn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String title = titleEt.getText().toString().trim();
            String description = descriptionEt.getText().toString().trim();
            if(TextUtils.isEmpty(title)) {
                Toast.makeText(AddPostActivity.this, "Enter Title...", Toast.LENGTH_SHORT).show();
                return;
            }
            if(TextUtils.isEmpty(description)) {
                Toast.makeText(AddPostActivity.this, "Enter
description...", Toast.LENGTH_SHORT).show();
                return;
            }
        }
    });

```

```

        if (isUpdateKey.equals("editPost")) {
            beginUpdate(title, description, editPostId);
        }
        else {
            uploadData(title, description);
        }
    }
});
}

```

```

private void beginUpdate(String title, String description, String editPostId) {
    pd.setMessage("Updating Post...");
    pd.show();
}

```

```

    if(!editImage.equals("noImage")) {
        updateWasWithImage(title, description, editPostId);
    }
    else if(imageIv.getDrawable() != null){
        updateWithNowImage(title, description, editPostId);
    }
    else {
        updateWithoutImage(title, description, editPostId);
    }
}

```

```

private void updateWithoutImage(String title, String description, String editPostId) {
    HashMap<String, Object> hashMap = new HashMap<>();
}

```

```

hashMap.put("uid",uid);
hashMap.put("uName",name);
hashMap.put("uEmail",email);
hashMap.put("uDp",dp);
hashMap.put("pTitle",title);
hashMap.put("pDescr",description);
hashMap.put("pImage","noImage");

```

```

DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
ref.child(editPostId)
    .updateChildren(hashMap)
    .addOnSuccessListener(new OnSuccessListener<Void>() {
        @Override
        public void onSuccess(Void aVoid) {
            pd.dismiss();
            Toast.makeText(AddPostActivity.this,"Updated...",Toast.LENGTH_SHORT).show();
        }
    })
    .addOnFailureListener(new OnFailureListener() {
        @Override
        public void onFailure(@NonNull Exception e) {
            pd.dismiss();
            Toast.makeText(AddPostActivity.this,""+e.getMessage(),

```

```

Toast.LENGTH_SHORT).show();
    }
});
}

private void updateWithNowImage(final String title, final String description, final String editPostId)
{
    String timeStamp = String.valueOf(System.currentTimeMillis());
    String filePathAndName = "Posts/" + "post_" + timeStamp;

    Bitmap bitmap = ((BitmapDrawable)imageView.getDrawable()).getBitmap();
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    bitmap.compress(Bitmap.CompressFormat.PNG, 100, baos);
    byte[] data = baos.toByteArray();

    StorageReference ref = FirebaseStorage.getInstance().getReference().child(filePathAndName);
    ref.putBytes(data)
        .addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {
            @Override
            public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {
                Task<Uri> uriTask = taskSnapshot.getStorage().getDownloadUrl();
                while (!uriTask.isSuccessful());

                String downloadUri = uriTask.getResult().toString();
                if (uriTask.isSuccessful()) {
                    HashMap<String, Object> hashMap = new HashMap<>();

                    hashMap.put("uid", uid);
                    hashMap.put("uName", name);
                    hashMap.put("uEmail", email);
                    hashMap.put("uDp", dp);
                    hashMap.put("pTitle", title);
                    hashMap.put("pDescr", description);
                    hashMap.put("pImage", downloadUri);

                    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
                    ref.child(editPostId)
                        .updateChildren(hashMap)
                        .addOnSuccessListener(new OnSuccessListener<Void>() {
                            @Override
                            public void onSuccess(Void aVoid) {
                                pd.dismiss();
                            }
                        })
                        .addOnFailureListener(new OnFailureListener() {
                            @Override
                            public void onFailure(@NonNull Exception e) {
                                pd.dismiss();
                            }
                        })
                }
            }
        })
        .addOnFailureListener(new OnFailureListener() {
            @Override
            public void onFailure(@NonNull Exception e) {
                Toast.makeText(AddPostActivity.this, "Updated...", Toast.LENGTH_SHORT).show();
            }
        })
}

```



```
DatabaseReference ref =
FirebaseDatabase.getInstance().getReference("Posts");
        ref.child(editPostId)
            .updateChildren(hashMap)
            .addOnSuccessListener(new OnSuccessListener<Void>() {
                @Override
                public void onSuccess(Void aVoid) {
                    pd.dismiss();
                }
            })
            .addOnFailureListener(new OnFailureListener() {
                @Override
                public void onFailure(@NonNull Exception e) {
                    pd.dismiss();
                    Toast.makeText(AddPostActivity.this, ""+e.getMessage(),
                        Toast.LENGTH_SHORT).show();
                }
            });
    }
}

})
.addOnFailureListener(new OnFailureListener() {
    @Override
    public void onFailure(@NonNull Exception e) {
        pd.dismiss();
    }
});

Toast.makeText(AddPostActivity.this, ""+e.getMessage(),Toast.LENGTH_SHORT).show();
    }
});
}

})
.addOnFailureListener(new OnFailureListener() {
    @Override
    public void onFailure(@NonNull Exception e) {
        pd.dismiss();
    }
});

Toast.makeText(AddPostActivity.this, ""+e.getMessage(),Toast.LENGTH_SHORT).show();
    }
});
}

private void loadPostData(String editPostId) {
    DatabaseReference reference = FirebaseDatabase.getInstance().getReference("Posts");

    Query fquery = reference.orderByChild("postId").equalTo(editPostId);
    fquery.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
```



```

    for (DataSnapshot ds: dataSnapshot.getChildren()) {
        editTitle = ""+ds.child("pTitle").getValue();
        editDescription = ""+ds.child("pDescr").getValue();
        editImage = ""+ds.child("pImage").getValue();

        titleEt.setText(editTitle);
        descriptionEt.setText(editDescription);

        if (!editImage.equals("noImage")) {
            try {
                Picasso.get().load(editImage).into(imageIv);
            }
            catch (Exception e) {

            }
        }
    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}
});
}

private void uploadData(final String title, final String description) {

    pd.setMessage("Publishing post...");
    pd.show();

    final String timeStamp = String.valueOf(System.currentTimeMillis());

    String filePathAndName = "Posts/" + "post_" + timeStamp;

    if (imageIv.getDrawable() != null) {

        Bitmap bitmap = ((BitmapDrawable)imageIv.getDrawable()).getBitmap();
        ByteArrayOutputStream baos = new ByteArrayOutputStream();
        bitmap.compress(Bitmap.CompressFormat.PNG, 100, baos);
        byte[] data = baos.toByteArray();

        StorageReference ref = FirebaseStorage.getInstance().getReference().child(filePathAndName);
        ref.putBytes(data)
            .addOnSuccessListener(new OnSuccessListener<UploadTask.TaskSnapshot>() {
                @Override
                public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {
                    Task<Uri> uriTask = taskSnapshot.getStorage().getDownloadUrl();
                    while (!uriTask.isSuccessful());
                    String downloadUri = uriTask.getResult().toString();
                    if(uriTask.isSuccessful()) {

```

```

HashMap<Object, String> hashMap = new HashMap<>();
hashMap.put("uid", uid);
hashMap.put("uName", name);
hashMap.put("uEmail", email);
hashMap.put("uDp", dp);
hashMap.put("pId", timeStamp);
hashMap.put("pTitle", title);
hashMap.put("pDescr", description);
hashMap.put("pImage", downloadUri);
hashMap.put("pTime", timeStamp);
hashMap.put("pLikes", "0");
hashMap.put("pComments", "0");

DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
ref.child(timeStamp).setValue(hashMap)
    .addOnSuccessListener(new OnSuccessListener<Void>() {
        @Override
        public void onSuccess(Void aVoid) {
            pd.dismiss();
            Toast.makeText(AddPostActivity.this, "Post
published", Toast.LENGTH_SHORT).show();
            titleEt.setText("");
            descriptionEt.setText("");
            imageIv.setImageURI(null);
            image_rui = null;
        }
    })
    .addOnFailureListener(new OnFailureListener() {
        @Override
        public void onFailure(@NonNull Exception e) {
            pd.dismiss();
            Toast.makeText(AddPostActivity.this, "" +
e.getMessage(), Toast.LENGTH_SHORT).show();
        }
    });
}
}
})
.addOnFailureListener(new OnFailureListener() {
    @Override
    public void onFailure(@NonNull Exception e) {
        pd.dismiss();
        Toast.makeText(AddPostActivity.this, "" +
e.getMessage(), Toast.LENGTH_SHORT).show();
    }
});
}
else {
    HashMap<Object, String> hashMap = new HashMap<>();
    hashMap.put("uid", uid);
    hashMap.put("uName", name);

```

```

hashMap.put("uEmail", email);
hashMap.put("uDp", dp);
hashMap.put("pId", timeStamp);
hashMap.put("pTitle", title);
hashMap.put("pDescr", description);
hashMap.put("pImage", "noImage");
hashMap.put("pTime", timeStamp);
hashMap.put("pLikes", "0");
hashMap.put("pComments", "0");

DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
ref.child(timeStamp).setValue(hashMap)
    .addOnSuccessListener(new OnSuccessListener<Void>() {
        @Override
        public void onSuccess(Void aVoid) {
            pd.dismiss();
            Toast.makeText(AddPostActivity.this, "Post
published", Toast.LENGTH_SHORT).show();
            titleEt.setText("");
            descriptionEt.setText("");
            imageIv.setImageURI(null);
            image_rui = null;
        }
    })
    .addOnFailureListener(new OnFailureListener() {
        @Override
        public void onFailure(@NonNull Exception e) {
            pd.dismiss();
            Toast.makeText(AddPostActivity.this, "" +
e.getMessage(), Toast.LENGTH_SHORT).show();
        }
    });
}

private void showImagePickDialog() {
    String[] options = {"Camera", "Gallery"};

    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("Choose Image from");

    builder.setItems(options, new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            if(which==0){
                if(!checkCameraPermission()) {
                    requestCameraPermission();
                }
            }
            else {
                pickFromCamera();
            }
        }
    });
}

```

```

    }
    if(which==1){
        if(!checkStoragePermission()) {
            requestStoragePermission();
        }
        else {
            pickFromGallery();
        }
    }
}
});
builder.create().show();
}

```

```

private void pickFromGallery() {

```

```

    Intent intent = new Intent(Intent.ACTION_PICK);
    intent.setType("image/*");
    startActivityForResult(intent, IMAGE_PICK_GALLERY_CODE);
}

```

```

private void pickFromCamera() {

```

```

    ContentValues cv = new ContentValues();
    cv.put(MediaStore.Images.Media.TITLE, "Temp Pick");
    cv.put(MediaStore.Images.Media.DEScription, "Temp Descr");
    image_rui =
getContentResolver().insert(MediaStore.Images.Media.EXTERNAL_CONTENT_URI, cv);

    Intent intent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
    intent.putExtra(MediaStore.EXTRA_OUTPUT, image_rui);
    startActivityForResult(intent, IMAGE_PICK_CAMERA_CODE);
}

```

```

private boolean checkStoragePermission() {
    boolean result = ContextCompat.checkSelfPermission(this,
        Manifest.permission.WRITE_EXTERNAL_STORAGE) ==
(PackageManager.PERMISSION_GRANTED);
    return result;
}

```

```

private void requestStoragePermission() {
    ActivityCompat.requestPermissions(this, storagePermissions, STORAGE_REQUEST_CODE);
}

```

```

private boolean checkCameraPermission() {
    boolean result = ContextCompat.checkSelfPermission(this,
        Manifest.permission.CAMERA) == (PackageManager.PERMISSION_GRANTED);
    boolean result1 = ContextCompat.checkSelfPermission(this,
        Manifest.permission.WRITE_EXTERNAL_STORAGE) ==
(PackageManager.PERMISSION_GRANTED);
}

```

```

        return result && result1;
    }

    private void requestCameraPermission() {
        ActivityCompat.requestPermissions(this, cameraPermissions, CAMERA_REQUEST_CODE);
    }

    @Override
    protected void onStart() {
        super.onStart();
        checkUserStatus();
    }

    @Override
    protected void onResume() {
        super.onResume();
        checkUserStatus();
    }

    private void checkUserStatus() {
        FirebaseUser user = firebaseAuth.getCurrentUser();
        if(user != null) {
            email = user.getEmail();
            uid = user.getUid();
        }
        else {
            startActivity(new Intent(AddPostActivity.this, MainActivity.class));
            finish();
        }
    }

    @Override
    public boolean onSupportNavigateUp() {
        onBackPressed();
        return super.onSupportNavigateUp();
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu_main, menu);
        menu.findItem(R.id.action_add_post).setVisible(false);
        menu.findItem(R.id.action_search).setVisible(false);
        return super.onCreateOptionsMenu(menu);
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {

        int id = item.getItemId();
        if(id == R.id.action_logout) {
            firebaseAuth.signOut();
        }
    }

```

```

        checkUserStatus();
    }
    return super.onOptionsItemSelected(item);
}

@Override
public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
@NonNull int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    switch (requestCode) {
        case CAMERA_REQUEST_CODE: {
            if (grantResults.length>0) {
                boolean cameraAccepted = grantResults[0] ==
PackageManager.PERMISSION_GRANTED;
                boolean storageAccepted = grantResults[1] ==
PackageManager.PERMISSION_GRANTED;
                if(cameraAccepted && storageAccepted) {
                    pickFromCamera();
                }
                else {
                    Toast.makeText(this, "Camera & Storage both permissions are necessary...",
Toast.LENGTH_SHORT).show();
                }
            }
            else {
            }
        }
        break;
        case STORAGE_REQUEST_CODE: {
            if(grantResults.length>0) {
                boolean storageAccepted = grantResults[0] ==
PackageManager.PERMISSION_GRANTED;
                if(storageAccepted) {
                    pickFromGallery();
                }
                else {
                    Toast.makeText(this, "Storage permissions necessary...",
Toast.LENGTH_SHORT).show();
                }
            }
            else {
            }
        }
        break;
    }
}

@Override
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    if(resultCode == RESULT_OK) {

```

```

        if(requestCode == IMAGE_PICK_GALLERY_CODE) {
            image_rui = data.getData();
            imageIv.setImageURI(image_rui);
        }
        else if(requestCode == IMAGE_PICK_CAMERA_CODE) {
            imageIv.setImageURI(image_rui);
        }
    }

    super.onActivityResult(requestCode, resultCode, data);
}
}

```

ChatActivity.java:

```

package com.bhargav.verifyproject;

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

import android.content.Intent;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextUtils;
import android.text.TextWatcher;
import android.text.format.DateFormat;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import com.bhargav.verifyproject.adapters.AdapterChat;
import com.bhargav.verifyproject.models.ModelChat;
import com.bhargav.verifyproject.models.ModelUser;
import com.bhargav.verifyproject.notifications.APIService;
import com.bhargav.verifyproject.notifications.Client;
import com.bhargav.verifyproject.notifications.Data;
import com.bhargav.verifyproject.notifications.Response;
import com.bhargav.verifyproject.notifications.Sender;
import com.bhargav.verifyproject.notifications.Token;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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.Query;
import com.google.firebase.database.ValueEventListener;
import com.squareup.picasso.Picasso;
```

```
import java.util.ArrayList;
import java.util.Calendar;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
```

```
import retrofit2.Call;
import retrofit2.Callback;
```

```
public class ChatActivity extends AppCompatActivity {
```

```
    Toolbar toolbar;
    RecyclerView recyclerView;
    ImageView profileTv;
    TextView nameTv, userStatusTv;
    EditText messageEt;
    ImageButton sendBtn;
```

```
    FirebaseAuth firebaseAuth;
```

```
    FirebaseDatabase firebaseDatabase;
    DatabaseReference usersDbRef;
```

```
    ValueEventListener seenListener;
    DatabaseReference userRefForSeen;
```

```
    List<ModelChat> chatList;
    AdapterChat adapterChat;
```

```
    String hisUid;
    String myUid;
    String hisImage;
```

```
    ApiService apiService;
    boolean notify = false;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_chat);
```

```
    toolbar = findViewById(R.id.toolbar);
    setSupportActionBar(toolbar);
```



```

toolbar.setTitle("");
recyclerView = findViewById(R.id.chat_recyclerView);
profileTv = findViewById(R.id.profileTv);
nameTv = findViewById(R.id.nameTv);
userStatusTv = findViewById(R.id.userStatusTv);
messageEt = findViewById(R.id.messageEt);
sendBtn = findViewById(R.id.sendBtn);

LinearLayoutManager layoutManager = new LinearLayoutManager(this);
layoutManager.setStackFromEnd(true);

recyclerView.setHasFixedSize(true);
recyclerView.setLayoutManager(layoutManager);

apiService = Client.getRetrofit("https://fcm.googleapis.com/").create(APIService.class);

Intent intent = getIntent();
hisUid = intent.getStringExtra("hisUid");

firebaseAuth = FirebaseAuth.getInstance();

firebaseDatabase = FirebaseDatabase.getInstance();
usersDbRef = firebaseDatabase.getReference("Users");

Query userQuery = usersDbRef.orderByChild("uid").equalTo(hisUid);
userQuery.addValueEventListener(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
        for(DataSnapshot ds: dataSnapshot.getChildren()) {
            String name = "" + ds.child("name").getValue();
            hisImage = "" + ds.child("image").getValue();
            String typingStatus = "" + ds.child("typingTo").getValue();

            if(typingStatus.equals(myUid)) {
                userStatusTv.setText("typing...");
            }
            else {
                String onlineStatus = "" + ds.child("onlineStatus").getValue();

                if(onlineStatus.equals("online")) {
                    userStatusTv.setText(onlineStatus);
                }
                else {
                    Calendar cal = Calendar.getInstance(Locale.ENGLISH);
                    cal.setTimeInMillis(Long.parseLong(onlineStatus));
                    String dateTime = DateFormat.format("dd/MM/yyyy hh:mm aa", cal).toString();
                    userStatusTv.setText("Last seen at: " + dateTime);
                }
            }
        }
    }

    nameTv.setText(name);

```

```

        try {
Picasso.get().load(hisImage).placeholder(R.drawable.ic_default_img_white).into(profileTv);
        }
        catch (Exception e) {
            Picasso.get().load(R.drawable.ic_default_img_white).into(profileTv);
        }
    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}

});

sendBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        notify = true;
        String message = messageEt.getText().toString().trim();
        if(TextUtils.isEmpty(message)) {
            Toast.makeText(ChatActivity.this,"Cannot send the empty
message...",Toast.LENGTH_SHORT).show();
        }
        else {
            sendMessage(message);
        }
        messageEt.setText("");
    }
});

messageEt.addTextChangedListener(new TextWatcher() {
    @Override
    public void beforeTextChanged(CharSequence s, int start, int count, int after) {

    }

    @Override
    public void onTextChanged(CharSequence s, int start, int before, int count) {
        if(s.toString().trim().length() == 0) {
            checkTypingStatus("noOne");
        }
        else {
            checkTypingStatus(hisUid);
        }
    }
});

@Override
public void afterTextChanged(Editable s) {

```

```

    }
});

readMessages();

seenMessage();

}

private void seenMessage() {
    userRefForSeen = FirebaseDatabase.getInstance().getReference("Chats");
    seenListener = userRefForSeen.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for(DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelChat chat = ds.getValue(ModelChat.class);
                if(chat.getReceiver().equals(myUid) && chat.getSender().equals(hisUid)) {
                    HashMap<String, Object> hasSeenHashMap = new HashMap<>();
                    hasSeenHashMap.put("isSeen", true);
                    ds.getRef().updateChildren(hasSeenHashMap);
                }
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void readMessages() {
    chatList = new ArrayList<>();
    DatabaseReference dbRef = FirebaseDatabase.getInstance().getReference("Chats");
    dbRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            chatList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelChat chat = ds.getValue(ModelChat.class);
                if(chat.getReceiver().equals(myUid) && chat.getSender().equals(hisUid) ||
                    chat.getReceiver().equals(hisUid) && chat.getSender().equals(myUid)) {
                    chatList.add(chat);
                }
            }

            adapterChat = new AdapterChat(ChatActivity.this, chatList, hisImage);
            adapterChat.notifyDataSetChanged();
            recyclerView.setAdapter(adapterChat);
        }
    });
}

```

```

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void sendMessage(final String message) {
    DatabaseReference databaseReference = FirebaseDatabase.getInstance().getReference();

    String timestamp = String.valueOf(System.currentTimeMillis());

    HashMap<String, Object> hashMap = new HashMap<>();
    hashMap.put("sender", myUid);
    hashMap.put("receiver", hisUid);
    hashMap.put("message", message);
    hashMap.put("timestamp", timestamp);
    hashMap.put("isSeen", false);
    databaseReference.child("Chats").push().setValue(hashMap);

    final DatabaseReference database =
    FirebaseDatabase.getInstance().getReference("Users").child(myUid);
    database.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            ModelUser user = dataSnapshot.getValue(ModelUser.class);
            if(notify) {
                senNotification(hisUid, user.getName(), message);
            }
            notify = false;
        }
    })

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {

    }
});

final DatabaseReference chatRef1 = FirebaseDatabase.getInstance().getReference("Chatlist")
    .child(myUid)
    .child(hisUid);

chatRef1.addValueEventListener(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
        if (!dataSnapshot.exists()) {
            chatRef1.child("id").setValue(hisUid);
        }
    }
})

```

```

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });

    final DatabaseReference chatRef2 = FirebaseDatabase.getInstance().getReference("Chatlist")
        .child(hisUid)
        .child(myUid);

    chatRef2.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            if (!dataSnapshot.exists()) {
                chatRef2.child("id").setValue(myUid);
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void senNotification(final String hisUid, final String name, final String message) {

    DatabaseReference allTokens = FirebaseDatabase.getInstance().getReference("Tokens");
    Query query = allTokens.orderByKey().equalTo(hisUid);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                Token token = ds.getValue(Token.class);
                Data data = new Data(myUid, name+":"+message, "New Message", hisUid,
R.drawable.ic_default_img);

                Sender sender = new Sender(data, token.getToken());
                apiService.sendNotification(sender)
                    .enqueue(new Callback<Response>() {
                        @Override
                        public void onResponse(Call<Response> call, retrofit2.Response<Response>
response) {
                            Toast.makeText(ChatActivity.this, ""+response.message(),
Toast.LENGTH_SHORT).show();
                        }

                        @Override
                        public void onFailure(Call<Response> call, Throwable t) {

                        }
                    }
                )
            }
        }
    });
}

```

```

        });
    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}
});
}

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if(user != null) {
        myUid = user.getId();
    }
    else {
        startActivity(new Intent(ChatActivity.this, MainActivity.class));
        finish();
    }
}

private void checkOnlineStatus(String status) {
    DatabaseReference dbRef = FirebaseDatabase.getInstance().getReference("Users").child(myUid);
    HashMap<String, Object> hashMap = new HashMap<>();
    hashMap.put("onlineStatus", status);

    dbRef.updateChildren(hashMap);
}

private void checkTypingStatus(String typing) {
    DatabaseReference dbRef = FirebaseDatabase.getInstance().getReference("Users").child(myUid);
    HashMap<String, Object> hashMap = new HashMap<>();
    hashMap.put("typingTo", typing);

    dbRef.updateChildren(hashMap);
}

@Override
protected void onStart() {
    checkUserStatus();
    checkOnlineStatus("online");
    super.onStart();
}

@Override
protected void onPause() {
    super.onPause();

    String timestamp = String.valueOf(System.currentTimeMillis());

```

```

        checkOnlineStatus(timestamp);
        checkTypingStatus("noOne");

        userRefForSeen.removeEventListener(seenListener);
    }

    @Override
    protected void onResume() {
        checkOnlineStatus("online");
        super.onResume();
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu_main, menu);
        menu.findItem(R.id.action_search).setVisible(false);
        menu.findItem(R.id.action_add_post).setVisible(false);
        return super.onCreateOptionsMenu(menu);
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {

        int id = item.getItemId();
        if(id == R.id.action_logout) {
            firebaseAuth.signOut();
            checkUserStatus();
        }

        return super.onOptionsItemSelected(item);
    }
}

```

PostDetailActivity.java:

```

package com.bhargav.verifyproject;

import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBar;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.PopupMenu;
import androidx.core.content.FileProvider;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.app.ProgressDialog;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.net.Uri;

```

```
import android.os.Bundle;
import android.text.TextUtils;
import android.text.format.DateFormat;
import android.view.Gravity;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;
```

```
import com.bhargav.verifyproject.adapters.AdapterComments;
import com.bhargav.verifyproject.models.ModelComment;
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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.Query;
import com.google.firebase.database.ValueEventListener;
import com.google.firebase.storage.FirebaseStorage;
import com.google.firebase.storage.StorageReference;
import com.squareup.picasso.Picasso;
```

```
import java.io.File;
import java.io.FileOutputStream;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
```

```
public class PostDetailActivity extends AppCompatActivity {
```

```
    String hisUid,myUid,myEmail,myName,myDp,  
    postId,pLikes,hisDp,hisName,pImage;
```

```
    boolean mProcessComment = false;  
    boolean mProcessLike = false;
```

```
    ProgressDialog pd;
```

```
    ImageView uPictureIv, pImageIv;  
    TextView uNameTv, pTimeTv, pTitleTv, pDescriptionTv, pLikesTv, pCommentsTv;
```



```
ImageButton moreBtn;  
Button likeBtn, shareBtn;  
LinearLayout profileLayout;  
RecyclerView recyclerView;
```

```
List<ModelComment> commentList;  
AdapterComments adapterComments;
```

```
EditText commentEt;  
ImageButton sendBtn;  
ImageView cAvatarIv;
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_post_detail);
```

```
    ActionBar actionBar = getSupportActionBar();  
    actionBar.setTitle("Post Detail");  
    actionBar.setDisplayHomeAsUpEnabled(true);  
    actionBar.setDisplayHomeAsUpEnabledAsUpEnabled(true);
```

```
    Intent intent = getIntent();  
    postId = intent.getStringExtra("postId");
```

```
    uPictureIv = findViewById(R.id.uPictureIv);  
    pImageIv = findViewById(R.id.pImageIv);  
    uNameTv = findViewById(R.id.uNameTv);  
    pTimeTv = findViewById(R.id.pTimeTv);  
    pTitleTv = findViewById(R.id.pTitleTv);  
    pDescriptionTv = findViewById(R.id.pDescriptionTv);  
    pLikesTv = findViewById(R.id.pLikesTv);  
    pCommentsTv = findViewById(R.id.pCommentsTv);  
    moreBtn = findViewById(R.id.moreBtn);  
    likeBtn = findViewById(R.id.likeBtn);  
    shareBtn = findViewById(R.id.shareBtn);  
    profileLayout = findViewById(R.id.profileLayout);  
    recyclerView = findViewById(R.id.recyclerView);
```

```
    commentEt = findViewById(R.id.commentEt);  
    sendBtn = findViewById(R.id.sendBtn);  
    cAvatarIv = findViewById(R.id.cAvatarIv);
```

```
    loadPostInfo();
```

```
    checkUserStatus();
```

```
    loadUserInfo();
```

```
    setLikes();
```

```

actionBar.setSubtitle("SignedIn as: " + myEmail);

loadComments();

sendBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        postComment();
    }
});

likeBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        likePost();
    }
});

moreBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        showMoreOptions();
    }
});

shareBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String pTitle = pTitleTv.getText().toString().trim();
        String pDescription = pDescriptionTv.getText().toString().trim();

        BitmapDrawable bitmapDrawable = (BitmapDrawable)pImageIv.getDrawable();
        if (bitmapDrawable == null) {
            shareTextOnly(pTitle, pDescription);
        }
        else {
            Bitmap bitmap = bitmapDrawable.getBitmap();
            shareImageAndText(pTitle, pDescription, bitmap);
        }
    }
});
}

private void shareTextOnly(String pTitle, String pDescription) {
    String shareBody = pTitle + "\n" + pDescription;

    Intent sIntent = new Intent(Intent.ACTION_SEND);
    sIntent.setType("text/plain");
    sIntent.putExtra(Intent.EXTRA_SUBJECT, "Subject Here");
    sIntent.putExtra(Intent.EXTRA_TEXT, shareBody);
    startActivity(Intent.createChooser(sIntent, "Shaer Via"));
}

```

```

}

private void shareImageAndText(String pTitle, String pDescription, Bitmap bitmap) {
    String shareBody = pTitle + "\n" + pDescription;

    Uri uri = saveImageToShare(bitmap);

    Intent sIntent = new Intent(Intent.ACTION_SEND);
    sIntent.putExtra(Intent.EXTRA_STREAM, uri);
    sIntent.putExtra(Intent.EXTRA_TEXT, shareBody);
    sIntent.putExtra(Intent.EXTRA_SUBJECT, "Subject Here");
    sIntent.setType("image/png");
    startActivity(Intent.createChooser(sIntent, "Share Via"));
}

private Uri saveImageToShare(Bitmap bitmap) {
    File imageFolder = new File(getCacheDir(), "images");
    Uri uri = null;
    try {
        imageFolder.mkdirs();
        File file = new File(imageFolder, "shared_image.png");
        FileOutputStream stream = new FileOutputStream(file);

        bitmap.compress(Bitmap.CompressFormat.PNG, 90, stream);
        stream.flush();
        stream.close();
        uri = FileProvider.getUriForFile(this, "com.bhargav.verifyproject.fileprovider", file);
    }
    catch (Exception e) {
        Toast.makeText(this, "" + e.getMessage(), Toast.LENGTH_SHORT).show();
    }
    return uri;
}

private void loadComments() {
    LinearLayoutManager layoutManager = new LinearLayoutManager(getApplicationContext());
    recyclerView.setLayoutManager(layoutManager);
    commentList = new ArrayList<>();
    DatabaseReference ref =
        FirebaseDatabase.getInstance().getReference("Posts").child(postId).child("Comments");
    ref.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            commentList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelComment modelComment = ds.getValue(ModelComment.class);
                commentList.add(modelComment);
                adapterComments = new AdapterComments(getApplicationContext(), commentList,
myUid, postId);
                recyclerView.setAdapter(adapterComments);
            }
        }
    });
}

```

```

    }

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {

    }
});
}

private void showMoreOptions() {
    PopupMenu popupMenu = new PopupMenu(this, moreBtn, Gravity.END);
    if (hisUid.equals(myUid)) {
        popupMenu.getMenu().add(Menu.NONE, 0, 0, "Delete");
        popupMenu.getMenu().add(Menu.NONE, 1, 0, "Edit");
    }
    popupMenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
        @Override
        public boolean onMenuItemClick(MenuItem menuItem) {
            int id = menuItem.getItemId();
            if (id == 0) {
                beginDelete();
            }
            else if (id == 1) {
                Intent intent = new Intent(PostDetailActivity.this, AddPostActivity.class);
                intent.putExtra("key", "editPost");
                intent.putExtra("editPostId", postId);
                startActivity(intent);
            }
            return false;
        }
    });
    popupMenu.show();
}

private void beginDelete() {

    if (pImage.equals("noImage")) {
        deleteWithoutImage();
    }
    else {
        deleteWithImage();
    }
}

private void deleteWithImage() {
    final ProgressDialog pd = new ProgressDialog(this);
    pd.setMessage("Deleting...");
    StorageReference picRef = FirebaseStorage.getInstance().getReferenceFromUrl(pImage);
    picRef.delete()
        .addOnSuccessListener(new OnSuccessListener<Void>() {
            @Override

```

```

        public void onSuccess(Void aVoid) {
            Query fquery =
                FirebaseDatabase.getInstance().getReference("Posts").orderByChild("pId").equalTo(postId);
            fquery.addListenerForSingleValueEvent(new ValueEventListener() {
                @Override
                public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                    for (DataSnapshot ds: dataSnapshot.getChildren()) {
                        ds.getRef().removeValue();
                    }
                    Toast.makeText(PostDetailActivity.this, "Deleted
                    Successfully", Toast.LENGTH_SHORT).show();
                    pd.dismiss();
                }

                @Override
                public void onCancelled(@NonNull DatabaseError databaseError) {

                }
            });
        }
    })
    .addOnFailureListener(new OnFailureListener() {
        @Override
        public void onFailure(@NonNull Exception e) {
            pd.dismiss();
            Toast.makeText(PostDetailActivity.this, ""+e.getMessage(),
            Toast.LENGTH_SHORT).show();
        }
    });
}

```

```

private void deleteWithoutImage() {

    final ProgressDialog pd = new ProgressDialog(this);
    pd.setMessage("Deleting...");

    Query fquery =
        FirebaseDatabase.getInstance().getReference("Posts").orderByChild("pId").equalTo(postId);
    fquery.addListenerForSingleValueEvent(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ds.getRef().removeValue();
            }
            Toast.makeText(PostDetailActivity.this, "Deleted
            Successfully", Toast.LENGTH_SHORT).show();
            pd.dismiss();
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

```

```

    }
  });
}

```

```

private void setLikes() {
    final DatabaseReference likesRef = FirebaseDatabase.getInstance().getReference().child("Likes");

    likesRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            if (dataSnapshot.child(postId).hasChild(myUid)) {
                likeBtn.setCompoundDrawablesWithIntrinsicBounds(R.drawable.ic_liked,0,0,0);
                likeBtn.setText("Accepted");
            }
            else {
                likeBtn.setCompoundDrawablesWithIntrinsicBounds(R.drawable.ic_accept_black,0,0,0);
                likeBtn.setText("Accept");
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

```

```

private void likePost() {

    mProcessLike = true;
    final DatabaseReference likesRef = FirebaseDatabase.getInstance().getReference().child("Likes");
    final DatabaseReference postsRef = FirebaseDatabase.getInstance().getReference().child("Posts");
    likesRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            if (mProcessLike) {
                if (dataSnapshot.child(postId).hasChild(myUid)) {
                    postsRef.child(postId).child("pLikes").setValue(""+(Integer.parseInt(pLikes)-1));
                    likesRef.child(postId).child(myUid).removeValue();
                    mProcessLike = false;
                }
                else {
                    postsRef.child(postId).child("pLikes").setValue(""+(Integer.parseInt(pLikes)+1));
                    likesRef.child(postId).child(myUid).setValue("Accepted");
                    mProcessLike = false;
                }
            }
        }

        @Override

```

```

        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void postComment() {
    pd = new ProgressDialog(this);
    pd.setMessage("Adding Comment...");
    String comment = commentEt.getText().toString().trim();
    if (TextUtils.isEmpty(comment)) {
        Toast.makeText(this, "Comment is empty...", Toast.LENGTH_SHORT).show();
        return;
    }

    String timeStamp = String.valueOf(System.currentTimeMillis());
    DatabaseReference ref =
    FirebaseDatabase.getInstance().getReference("Posts").child(postId).child("Comments");

    HashMap<String, Object> hashMap = new HashMap<>();

    hashMap.put("cId", timeStamp);
    hashMap.put("comment", comment);
    hashMap.put("timestamp", timeStamp);
    hashMap.put("uid", myUid);
    hashMap.put("uEmail", myEmail);
    hashMap.put("uDp", myDp);
    hashMap.put("uName", myName);

    ref.child(timeStamp).setValue(hashMap)
        .addOnSuccessListener(new OnSuccessListener<Void>() {
            @Override
            public void onSuccess(Void aVoid) {
                pd.dismiss();
                Toast.makeText(PostDetailActivity.this, "Comment Added...",
                Toast.LENGTH_SHORT).show();
                commentEt.setText("");
                updateCommentCount();
            }
        })
        .addOnFailureListener(new OnFailureListener() {
            @Override
            public void onFailure(@NonNull Exception e) {
                pd.dismiss();

                Toast.makeText(PostDetailActivity.this, ""+e.getMessage(), Toast.LENGTH_SHORT).show();
            }
        });
}

private void updateCommentCount() {

```

```

mProcessComment = true;
final DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts").child(postId);
ref.addListenerForSingleValueEvent(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
        if (mProcessComment) {
            String comments = ""+ dataSnapshot.child("pComments").getValue();
            int newCommentVal = Integer.parseInt(comments) + 1;
            ref.child("pComments").setValue(""+newCommentVal);
            mProcessComment = false;
        }
    }
});

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}

});
}

private void loadUserInfo() {
    Query myRef = FirebaseDatabase.getInstance().getReference("Users");
    myRef.orderByChild("uid").equalTo(myUid).addListenerForSingleValueEvent(new
ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                myName = ""+ds.child("name").getValue();
                myDp = ""+ds.child("image").getValue();

                try {
                    Picasso.get().load(myDp).placeholder(R.drawable.ic_default_img).into(cAvatarIv);
                }
                catch(Exception e) {
                    Picasso.get().load(R.drawable.ic_default_img).into(cAvatarIv);
                }
            }
        }
    });
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}

});
}

private void loadPostInfo() {
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
    Query query = ref.orderByChild("pId").equalTo(postId);
    query.addValueEventListener(new ValueEventListener() {

```


@Override

```
public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
    for (DataSnapshot ds: dataSnapshot.getChildren()) {
        String pTitle = ""+ds.child("pTitle").getValue();
        String pDescr = ""+ds.child("pDescr").getValue();
        pLikes = ""+ds.child("pLikes").getValue();
        String pTimeStamp = ""+ds.child("pTime").getValue();
        pImage = ""+ds.child("pImage").getValue();
        hisDp = ""+ds.child("uDp").getValue();
        hisUid = ""+ds.child("uid").getValue();
        String uEmail = ""+ds.child("uEmail").getValue();
        hisName = ""+ds.child("uName").getValue();
        String commentCount = ""+ds.child("pComments").getValue();

        Calendar calendar = Calendar.getInstance(Locale.getDefault());
        calendar.setTimeInMillis(Long.parseLong(pTimeStamp));
        String pTime = DateFormat.format("dd/MM/yyyy hh:mm aa", calendar).toString();

        pTitleTv.setText(pTitle);
        pDescriptionTv.setText(pDescr);
        pLikesTv.setText(pLikes + " Accept");
        pTimeTiv.setText(pTime);
        pCommentsTv.setText(commentCount + " Comments");
        uNameTv.setText(hisName);

        if (pImage.equals("noImage")) {
            pImageIv.setVisibility(View.GONE);
        }
        else {
            pImageIv.setVisibility(View.VISIBLE);
            try {
                Picasso.get().load(pImage).into(pImageIv);
            }
            catch (Exception e) {

            }
        }

        try {
            Picasso.get().load(hisDp).placeholder(R.drawable.ic_default_img).into(uPictureIv);
        }
        catch (Exception e) {
            Picasso.get().load(R.drawable.ic_default_img).into(uPictureIv);
        }

    }
}
```

@Override

```

        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

private void checkUserStatus() {
    FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
    if (user != null) {
        myEmail = user.getEmail();
        myUid = user.getUid();
    }
    else {
        startActivity(new Intent(PostDetailActivity.this, MainActivity.class));
        finish();
    }
}

@Override
public boolean onSupportNavigateUp() {
    onBackPressed();
    return super.onSupportNavigateUp();
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu_main, menu);
    menu.findItem(R.id.action_add_post).setVisible(false);
    menu.findItem(R.id.action_search).setVisible(false);
    return super.onCreateOptionsMenu(menu);
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if (id == R.id.action_logout) {
        FirebaseAuth.getInstance().signOut();
        checkUserStatus();
    }
    return super.onOptionsItemSelected(item);
}
}

```

ThereProfileActivity.java:

```

package com.bhargav.verifyproject;

import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBar;
import androidx.appcompat.app.AppCompatActivity;

```

```

import androidx.core.view.MenuItemCompat;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.ImageView;
import android.widget.SearchView;
import android.widget.TextView;
import android.widget.Toast;

import com.bhargav.verifyproject.adapters.AdapterPosts;
import com.bhargav.verifyproject.models.ModelPost;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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.Query;
import com.google.firebase.database.ValueEventListener;
import com.squareup.picasso.Picasso;

import java.util.ArrayList;
import java.util.List;

public class ThereProfileActivity extends AppCompatActivity {

    FirebaseAuth firebaseAuth;

    ImageView avatarIv,coverIv;
    TextView nameTv,emailTv,phoneTv;
    RecyclerView postRecyclerView;

    List<ModelPost> postList;
    AdapterPosts adapterPosts;
    String uid;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_there_profile);

        ActionBar actionBar = getSupportActionBar();
        actionBar.setTitle("Profile");
        actionBar.setDisplayHomeAsUpEnabled(true);
        actionBar.setDisplayHomeAsUpEnabledAsUpEnabled(true);
    }

```

```

    avatarIv = findViewById(R.id.avatarIv);
    coverIv = findViewById(R.id.coverIv);
    nameTv = findViewById(R.id.nameTv);
    emailTv = findViewById(R.id.emailTv);
    phoneTv = findViewById(R.id.phoneTv);

    postRecyclerView = findViewById(R.id.recyclerview_posts);

    firebaseAuth = FirebaseAuth.getInstance();

    Intent intent = getIntent();
    uid = intent.getStringExtra("uid");

    Query query =
    FirebaseDatabase.getInstance().getReference("Users").orderByChild("uid").equalTo(uid);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for(DataSnapshot ds : dataSnapshot.getChildren()) {
                String name = ""+ds.child("name").getValue();
                String email = ""+ds.child("email").getValue();
                String phone = ""+ds.child("phone").getValue();
                String image = ""+ds.child("image").getValue();
                String cover = ""+ds.child("cover").getValue();

                nameTv.setText(name);
                emailTv.setText(email);
                phoneTv.setText(phone);

                try {
                    Picasso.get().load(image).into(avatarIv);
                }
                catch(Exception e) {
                    Picasso.get().load(R.drawable.ic_default_img_white).into(avatarIv);
                }

                try {
                    Picasso.get().load(cover).into(coverIv);
                }
                catch(Exception e) {

                }
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });

```

```

    postList = new ArrayList<>();

    checkUserStatus();
    loadHistPosts();
}

private void loadHistPosts() {
    LinearLayoutManager layoutManager = new LinearLayoutManager(this);
    layoutManager.setStackFromEnd(true);
    layoutManager.setReverseLayout(true);
    postRecyclerView.setLayoutManager(layoutManager);
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
    Query query = ref.orderByChild("uid").equalTo(uid);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            postList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelPost myPosts = ds.getValue(ModelPost.class);
                postList.add(myPosts);
                adapterPosts = new AdapterPosts(ThereProfileActivity.this, postList);
                postRecyclerView.setAdapter(adapterPosts);
            }
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {
            Toast.makeText(ThereProfileActivity.this, ""+databaseError.getMessage(),
            Toast.LENGTH_SHORT).show();
        }
    });
}

private void searchHistPosts(final String searchQuery) {
    LinearLayoutManager layoutManager = new LinearLayoutManager(ThereProfileActivity.this);
    layoutManager.setStackFromEnd(true);
    layoutManager.setReverseLayout(true);
    postRecyclerView.setLayoutManager(layoutManager);
    DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts");
    Query query = ref.orderByChild("uid").equalTo(uid);
    query.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            postList.clear();
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ModelPost myPosts = ds.getValue(ModelPost.class);

                if(myPosts.getpTitle().toLowerCase().contains(searchQuery.toLowerCase()) ||
                myPosts.getpDescr().toLowerCase().contains(searchQuery.toLowerCase())) {
                    postList.add(myPosts);
                }
            }
        }
    });
}

```

```

    }

    postList.add(myPosts);
    adapterPosts = new AdapterPosts(ThereProfileActivity.this, postList);
    postRecyclerView.setAdapter(adapterPosts);
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {
    Toast.makeText(ThereProfileActivity.this, ""+databaseError.getMessage(),
Toast.LENGTH_SHORT).show();
}
});
}

private void checkUserStatus() {
    FirebaseUser user = firebaseAuth.getCurrentUser();
    if(user != null) {
    }
    else {
        startActivity(new Intent(ThereProfileActivity.this, MainActivity.class));
        finish();
    }
}

@Override
public boolean onSupportNavigateUp() {
    onBackPressed();
    return super.onSupportNavigateUp();
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu_main, menu);
    menu.findItem(R.id.action_add_post).setVisible(true);

    MenuItem item = menu.findItem(R.id.action_search);
    SearchView searchView = (SearchView) MenuItemCompat.getActionView(item);
    searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
        @Override
        public boolean onQueryTextSubmit(String s) {
            if(!TextUtils.isEmpty(s)) {
                searchHistPosts(s);
            }
            else {
                loadHistPosts();
            }
            return false;
        }
    }
}

```

```

        @Override
        public boolean onQueryTextChange(String s) {
            if(!TextUtils.isEmpty(s)) {
                searchHistPosts(s);
            }
            else {
                loadHistPosts();
            }
            return false;
        }
    });

    return super.onCreateOptionsMenu(menu);
}

@Override
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if(id == R.id.action_logout) {
        firebaseAuth.signOut();
        checkUserStatus();
    }
    return super.onOptionsItemSelected(item);
}
}

```

Adapters in Java Folder (.java):

AdapterChat.java:

```

package com.bhargav.verifyproject.adapters;

import android.content.Context;
import android.content.DialogInterface;
import android.text.format.DateFormat;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.recyclerview.widget.RecyclerView;

import com.bhargav.verifyproject.R;
import com.bhargav.verifyproject.models.ModelChat;

```

```
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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.Query;
import com.google.firebase.database.ValueEventListener;
import com.squareup.picasso.Picasso;
```

```
import java.util.Calendar;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
```

```
public class AdapterChat extends RecyclerView.Adapter<AdapterChat.MyHolder> {
```

```
    private static final int MSG_TYPE_LEFT = 0;
    private static final int MSG_TYPE_RIGHT = 1;
    Context context;
    List<ModelChat> chatList;
    String imageUrl;
```

```
    FirebaseUser fUser;
```

```
    public AdapterChat(Context context, List<ModelChat> chatList, String imageUrl) {
        this.context = context;
        this.chatList = chatList;
        this.imageUrl = imageUrl;
    }
```

```
    @NonNull
```

```
    @Override
```

```
    public MyHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
        if(i==MSG_TYPE_RIGHT) {
            View view = LayoutInflater.from(context).inflate(R.layout.row_chat_right, viewGroup, false);
            return new MyHolder(view);
        }
        else {
            View view = LayoutInflater.from(context).inflate(R.layout.row_chat_left, viewGroup, false);
            return new MyHolder(view);
        }
    }
```

```
    @Override
```

```
    public void onBindViewHolder(@NonNull MyHolder myHolder, final int i) {
        String message = chatList.get(i).getMessage();
        String timeStamp = chatList.get(i).getTimestamp();
```

```
        Calendar cal = Calendar.getInstance(Locale.ENGLISH);
        cal.setTimeInMillis(Long.parseLong(timeStamp));
```



```

String dateTime = DateFormat.format("dd/MM/yyyy hh:mm aa", cal).toString();

myHolder.messageTv.setText(message);
myHolder.timeTv.setText(dateTime);
try {
    Picasso.get().load(imageUrl).into(myHolder.profileIv);
}
catch(Exception e) {

}

myHolder.messageLayout.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        AlertDialog.Builder builder = new AlertDialog.Builder(context);
        builder.setTitle("Delete");
        builder.setMessage("Are you sure to delete message?");
        builder.setPositiveButton("Delete", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                deleteMessage(i);
            }
        });
        builder.setNegativeButton("No", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                dialog.dismiss();
            }
        });
        builder.create().show();
    }
});

if (i==chatList.size()-1) {
    if (chatList.get(i).isSeen()) {
        myHolder.isSeenTv.setText("Seen");
    }
    else {
        myHolder.isSeenTv.setText("Delivered");
    }
}
else {
    myHolder.isSeenTv.setVisibility(View.GONE);
}
}

private void deleteMessage(int position) {
    final String myUID = FirebaseAuth.getInstance().getCurrentUser().getUid();
    String msgTimeStamp = chatList.get(position).getTimestamp();
    DatabaseReference dbRef = FirebaseDatabase.getInstance().getReference("Chats");
    Query query = dbRef.orderByChild("timestamp").equalTo(msgTimeStamp);

```

```

query.addListenerForSingleValueEvent(new ValueEventListener() {
    @Override
    public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
        for(DataSnapshot ds: dataSnapshot.getChildren()){
            if(ds.child("sender").getValue().equals(myUID)){
                //ds.getRef().removeValue();
                HashMap<String, Object> hashMap = new HashMap<>();
                hashMap.put("message", "This message was deleted...");
                ds.getRef().updateChildren(hashMap);
                Toast.makeText(context, "message deleted...", Toast.LENGTH_SHORT).show();
            }
            else {
                Toast.makeText(context, "You can delete only your
messages...", Toast.LENGTH_SHORT).show();
            }
        }
    }

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {

    }
});
}

@Override
public int getItemCount() {
    return chatList.size();
}

@Override
public int getItemViewType(int position) {
    fUser = FirebaseAuth.getInstance().getCurrentUser();
    if(chatList.get(position).getSender().equals(fUser.getId())) {
        return MSG_TYPE_RIGHT;
    }
    else {
        return MSG_TYPE_LEFT;
    }
}

class MyHolder extends RecyclerView.ViewHolder {

    ImageView profileIv;
    TextView messageTv, timeTv, isSeenTv;
    LinearLayout messageLAYOUT;

    public MyHolder(@NonNull View itemView) {
        super(itemView);

        profileIv = itemView.findViewById(R.id.profileIv);

```

```

        messageTv = itemView.findViewById(R.id.messageTv);
        timeTv = itemView.findViewById(R.id.timeTv);
        isSeenTv = itemView.findViewById(R.id.isSeenTv);
        messageLayout = itemView.findViewById(R.id.messageLayout);
    }
}
}

```

AdapterChatlist.java:

```

package com.bhargav.verifyproject.adapters;

```

```

import android.content.Context;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

```

```

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

```

```

import com.bhargav.verifyproject.ChatActivity;
import com.bhargav.verifyproject.R;
import com.bhargav.verifyproject.models.ModelUser;
import com.squareup.picasso.Picasso;

```

```

import java.util.HashMap;
import java.util.List;

```

```

public class AdapterChatlist extends RecyclerView.Adapter<AdapterChatlist.MyHolder> {

```

```

    Context context;
    List<ModelUser> userList;
    private HashMap<String , String > lastMessageMap;

```

```

    public AdapterChatlist(Context context, List<ModelUser> userList) {
        this.context = context;
        this.userList = userList;
        lastMessageMap = new HashMap<>();
    }

```

```

    @NonNull
    @Override

```

```

    public MyHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
        View view = LayoutInflater.from(context).inflate(R.layout.row_chatlist, viewGroup, false);
        return new MyHolder(view);
    }

```

@Override

public void onBindViewHolder(**@NonNull** MyHolder myHolder, **int** i) {

final String hisUid = **userList**.get(i).getUid();
 String userImage = **userList**.get(i).getImage();
 String userName = **userList**.get(i).getName();
 String lastMessage = **lastMessageMap**.get(hisUid);

 myHolder.**nameTv**.setText(userName);
 if (lastMessage==**null** || lastMessage.equals("**default**")) {
 myHolder.**lastMessageTv**.setVisibility(View.**GONE**);
 }
 else {
 myHolder.**lastMessageTv**.setVisibility(View.**VISIBLE**);
 myHolder.**lastMessageTv**.setText(lastMessage);
 }

try {
 Picasso.get().load(userImage).placeholder(R.drawable.**ic_default_img**).into(myHolder.**profileIv**);
 }
 catch(Exception e) {
 Picasso.get().load(R.drawable.**ic_default_img**).into(myHolder.**profileIv**);
 }

if (**userList**.get(i).getOnlineStatus().equals("**online**")) {
 myHolder.**onlineStatusIv**.setImageResource(R.drawable.**circle_online**);
 }
 else {
 myHolder.**onlineStatusIv**.setImageResource(R.drawable.**circle_offline**);
 }

 myHolder.**itemView**.setOnClickListener(**new** View.OnClickListener() {
 @Override
 public void onClick(View view) {
 Intent intent = **new** Intent(**context**, ChatActivity.**class**);
 intent.putExtra("**hisUid**", hisUid);
 context.startActivity(intent);
 }
 });
}

public void setLastMessageMap(String userId, String lastMessage) {
 lastMessageMap.put(userId, lastMessage);
}

@Override

public int getItemCount() {
 return **userList**.size();
}

class MyHolder **extends** RecyclerView.ViewHolder {

```

    ImageView profileIv, onlineStatusIv;
    TextView nameTv, lastMessageTv;

    public MyHolder(@NonNull View itemView) {
        super(itemView);

        profileIv = itemView.findViewById(R.id.profileIv);
        onlineStatusIv = itemView.findViewById(R.id.onlineStatusIv);
        nameTv = itemView.findViewById(R.id.nameTv);
        lastMessageTv = itemView.findViewById(R.id.lastMessageTv);
    }
}
}

```

AdapterComments.java:

```

package com.bhargav.verifyproject.adapters;

import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.text.format.DateFormat;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.bhargav.verifyproject.R;
import com.bhargav.verifyproject.models.ModelComment;
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.Calendar;
import java.util.List;
import java.util.Locale;

public class AdapterComments extends RecyclerView.Adapter<AdapterComments.MyHolder> {

    Context context;
    List<ModelComment> commentList;

```

String **myUid**,**postId**;

```
public AdapterComments(Context context, List<ModelComment> commentList, String myUid, String  
postId) {  
    this.context = context;  
    this.commentList = commentList;  
    this.myUid = myUid;  
    this.postId = postId;  
}
```

@NonNull

@Override

```
public MyHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
```

```
    View view = LayoutInflater.from(context).inflate(R.layout.row_comments, viewGroup,false);  
    return new MyHolder(view);  
}
```

@Override

```
public void onBindViewHolder(@NonNull MyHolder myHolder, int i) {
```

```
    final String uid = commentList.get(i).getUid();  
    String name = commentList.get(i).getuName();  
    String email = commentList.get(i).getuEmail();  
    String image = commentList.get(i).getuDp();  
    final String cid = commentList.get(i).getCid();  
    String comment = commentList.get(i).getComment();  
    String timestamp = commentList.get(i).getTimestamp();
```

```
    Calendar calendar = Calendar.getInstance(Locale.getDefault());  
    calendar.setTimeInMillis(Long.parseLong(timestamp));  
    String pTime = DateFormat.format("dd/MM/yyyy hh:mm aa", calendar).toString();
```

```
    myHolder.nameTv.setText(name);  
    myHolder.commentTv.setText(comment);  
    myHolder.timeTv.setText(pTime);
```

```
try {  
    Picasso.get().load(image).placeholder(R.drawable.ic_default_img).into(myHolder.avatarIv);  
}  
catch(Exception e) {}
```

```
myHolder.itemView.setOnClickListener(new View.OnClickListener() {
```

@Override

```
public void onClick(View v) {
```

```
    if (myUid.equals(uid)) {
```

```
        AlertDialog.Builder builder = new AlertDialog.Builder(v.getRootView().getContext());  
        builder.setTitle("Delete");  
        builder.setMessage("Are you sure to delete this comment?");  
        builder.setPositiveButton("Delete", new DialogInterface.OnClickListener() {
```

@Override

```
public void onClick(DialogInterface dialog, int which) {
```

```

        deleteComment(cid);
    }
});
builder.setNegativeButton("Cacnel", new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialog, int which) {
        dialog.dismiss();
    }
});
builder.create().show();
}
else {
    Toast.makeText(context, "Can't delete Others's comment...",
Toast.LENGTH_SHORT).show();
}
}
});
}

private void deleteComment(String cid) {

    final DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Posts").child(postId);
    ref.child("Comments").child(cid).removeValue();

    ref.addListenerForSingleValueEvent(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            String comments = ""+ dataSnapshot.child("pComments").getValue();
            int newCommentVal = Integer.parseInt(comments) - 1;
            ref.child("pComments").setValue(""+newCommentVal);
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

@Override
public int getItemCount() {
    return commentList.size();
}

class MyHolder extends RecyclerView.ViewHolder {
    ImageView avatarIv;
    TextView nameTv, commentTv, timeTv;

    public MyHolder(@NonNull View itemView) {
        super(itemView);
    }
}

```

```

        avatarIv = itemView.findViewById(R.id.avatarIv);
        nameTv = itemView.findViewById(R.id.nameTv);
        commentTv = itemView.findViewById(R.id.commentTv);
        timeTv = itemView.findViewById(R.id.timeTv);
    }
}
}

```

AdapterPosts.java:

```

package com.bhargav.verifyproject.adapters;

import android.app.ProgressDialog;
import android.content.Context;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.net.Uri;
import android.text.format.DateFormat;
import android.view.Gravity;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.widget.PopupMenu;
import androidx.core.content.FileProvider;
import androidx.recyclerview.widget.RecyclerView;

import com.bhargav.verifyproject.AddPostActivity;
import com.bhargav.verifyproject.PostDetailActivity;
import com.bhargav.verifyproject.R;
import com.bhargav.verifyproject.ThereProfileActivity;
import com.bhargav.verifyproject.models.ModelPost;
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
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.Query;

```



```

import com.google.firebase.database.ValueEventListener;
import com.google.firebase.storage.FirebaseStorage;
import com.google.firebase.storage.StorageReference;
import com.squareup.picasso.Picasso;

import java.io.File;
import java.io.FileOutputStream;
import java.util.Calendar;
import java.util.List;
import java.util.Locale;

public class AdapterPosts extends RecyclerView.Adapter<AdapterPosts.MyHolder> {

    Context context;
    List<ModelPost> postList;

    String myUid;

    private DatabaseReference likesRef;
    private DatabaseReference postsRef;

    boolean mProcessLike = false;

    public AdapterPosts(Context context, List<ModelPost> postList) {
        this.context = context;
        this.postList = postList;
        myUid = FirebaseAuth.getInstance().getCurrentUser().getUid();
        likesRef = FirebaseDatabase.getInstance().getReference().child("Likes");
        postsRef = FirebaseDatabase.getInstance().getReference().child("Posts");
    }

    @NonNull
    @Override
    public MyHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
        View view = LayoutInflater.from(context).inflate(R.layout.row_posts, viewGroup, false);
        return new MyHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull final MyHolder myHolder, final int i) {

        final String uid = postList.get(i).getUid();
        String uEmail = postList.get(i).getuEmail();
        String uName = postList.get(i).getuName();
        String uDp = postList.get(i).getuDp();
        final String pId = postList.get(i).getpId();
        final String pTitle = postList.get(i).getpTitle();
        final String pDescription = postList.get(i).getpDescr();
        final String pImage = postList.get(i).getpImage();
        String pTimeStamp = postList.get(i).getpTime();
        String pLikes = postList.get(i).getpLikes();
    }

```

```

String pComments = postList.get(i).getpComments();

Calendar calendar = Calendar.getInstance(Locale.getDefault());
calendar.setTimeInMillis(Long.parseLong(pTimeStamp));
String pTime = DateFormat.format("dd/MM/yyyy hh:mm aa", calendar).toString();

myHolder.uNameTv.setText(uName);
myHolder.pTimeTv.setText(pTime);
myHolder.pTitleTv.setText(pTitle);
myHolder.pDescriptionTv.setText(pDescription);
myHolder.pLikesTv.setText(pLikes + " Accept");
myHolder.pCommentsTv.setText(pComments + " Comments");

setLikes(myHolder, pId);

try {
    Picasso.get().load(uDp).placeholder(R.drawable.ic_default_img).into(myHolder.uPictureIv);
}
catch (Exception e) {

}

if (pImage.equals("noImage")) {
    myHolder.pImageIv.setVisibility(View.GONE);
}
else {
    myHolder.pImageIv.setVisibility(View.VISIBLE);
    try {
        Picasso.get().load(pImage).into(myHolder.pImageIv);
    }
    catch (Exception e) {

    }
}

myHolder.moreBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        showMoreOptions(myHolder.moreBtn, uid, myUid, pId, pImage);
    }
});

myHolder.likeBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        final int pLikes = Integer.parseInt(postList.get(i).getpLikes());
        mProcessLike = true;
        final String postId = postList.get(i).getId();
        likesRef.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot) {

```

```

        if (mProcessLike) {
            if (dataSnapshot.child(postId).hasChild(myUid)) {
                postsRef.child(postId).child("pLikes").setValue(""+(pLikes-1));
                likesRef.child(postId).child(myUid).removeValue();
                mProcessLike = false;
            }
            else {
                postsRef.child(postId).child("pLikes").setValue(""+(pLikes+1));
                likesRef.child(postId).child(myUid).setValue("Liked");
                mProcessLike = false;
            }
        }
    }
}

@Override
public void onCancelled(@NonNull DatabaseError databaseError) {

}

});
}
});

myHolder.commentBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(context, PostDetailActivity.class);
        intent.putExtra("postId",pId);
        context.startActivity(intent);
    }
});

myHolder.shareBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        BitmapDrawable bitmapDrawable = (BitmapDrawable)myHolder.pImageIv.getDrawable();
        if (bitmapDrawable == null) {
            shareTextOnly(pTitle, pDescription);
        }
        else {
            Bitmap bitmap = bitmapDrawable.getBitmap();
            shareImageAndText(pTitle, pDescription, bitmap);
        }
    }
});

myHolder.profileLayout.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(context, ThereProfileActivity.class);
        intent.putExtra("uid",uid);
        context.startActivity(intent);
    }
});

```

```

    }
});

}

private void shareTextOnly(String pTitle, String pDescription) {
    String shareBody = pTitle + "\n" + pDescription;

    Intent sIntent = new Intent(Intent.ACTION_SEND);
    sIntent.setType("text/plain");
    sIntent.putExtra(Intent.EXTRA_SUBJECT, "Subject Here");
    sIntent.putExtra(Intent.EXTRA_TEXT, shareBody);
    context.startActivity(Intent.createChooser(sIntent, "Shaer Via"));
}

private void shareImageAndText(String pTitle, String pDescription, Bitmap bitmap) {
    String shareBody = pTitle + "\n" + pDescription;

    Uri uri = saveImageToShare(bitmap);

    Intent sIntent = new Intent(Intent.ACTION_SEND);
    sIntent.putExtra(Intent.EXTRA_STREAM, uri);
    sIntent.putExtra(Intent.EXTRA_TEXT, shareBody);
    sIntent.putExtra(Intent.EXTRA_SUBJECT, "Subject Here");
    sIntent.setType("image/png");
    context.startActivity(Intent.createChooser(sIntent, "Share Via"));
}

private Uri saveImageToShare(Bitmap bitmap) {
    File imageFolder = new File(context.getCacheDir(), "images");
    Uri uri = null;
    try {
        imageFolder.mkdirs();
        File file = new File(imageFolder, "shared_image.png");
        FileOutputStream stream = new FileOutputStream(file);

        bitmap.compress(Bitmap.CompressFormat.PNG, 90, stream);
        stream.flush();
        stream.close();
        uri = FileProvider.getUriForFile(context, "com.bhargav.verifyproject.fileprovider", file);
    }
    catch (Exception e) {
        Toast.makeText(context, "" + e.getMessage(), Toast.LENGTH_SHORT).show();
    }
    return uri;
}

private void setLikes(final MyHolder holder, final String postKey) {
    likesRef.addValueEventListener(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {

```

```

        if (dataSnapshot.child(postKey).hasChild(myUid)) {
            holder.likeBtn.setCompoundDrawablesWithIntrinsicBounds(R.drawable.ic_liked,0,0,0);
            holder.likeBtn.setText("Accepted");
        }
        else {

holder.likeBtn.setCompoundDrawablesWithIntrinsicBounds(R.drawable.ic_accept_black,0,0,0);
            holder.likeBtn.setText("Accept");
        }
    }

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {

    }

});
}

private void showMoreOptions(ImageButton moreBtn, String uid, String myUid, final String pId,
final String pImage) {
    PopupMenu popupMenu = new PopupMenu(context, moreBtn, Gravity.END);
    if (uid.equals(myUid)) {
        popupMenu.getMenu().add(Menu.NONE,0,0,"Delete");
        popupMenu.getMenu().add(Menu.NONE,1,0,"Edit");
    }
    popupMenu.getMenu().add(Menu.NONE,2,0,"View Detail");
    popupMenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
        @Override
        public boolean onMenuItemClick(MenuItem menuItem) {
            int id = menuItem.getItemId();
            if (id==0) {
                beginDelete(pId, pImage);
            }
            else if (id==1) {
                Intent intent = new Intent(context, AddPostActivity.class);
                intent.putExtra("key","editPost");
                intent.putExtra("editPostId",pId);
                context.startActivity(intent);
            }
            else if(id==2) {
                Intent intent = new Intent(context, PostDetailActivity.class);
                intent.putExtra("postId",pId);
                context.startActivity(intent);
            }
            return false;
        }
    });
    popupMenu.show();
}

private void beginDelete(String pId, String pImage) {

```

```

        if (pImage.equals("noImage")) {
            deleteWithoutImage(pId);
        }
        else {
            deleteWithImage(pId, pImage);
        }
    }

    private void deleteWithImage(final String pId, String pImage) {
        final ProgressDialog pd = new ProgressDialog(context);
        pd.setMessage("Deleting...");
        StorageReference picRef = FirebaseStorage.getInstance().getReferenceFromUrl(pImage);
        picRef.delete()
            .addOnSuccessListener(new OnSuccessListener<Void>() {
                @Override
                public void onSuccess(Void aVoid) {
                    Query fquery =
FirebaseDatabase.getInstance().getReference("Posts").orderByChild("pId").equalTo(pId);
                    fquery.addListenerForSingleValueEvent(new ValueEventListener() {
                        @Override
                        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
                            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                                ds.getRef().removeValue();
                            }
                            Toast.makeText(context, "Deleted Successfully", Toast.LENGTH_SHORT).show();
                            pd.dismiss();
                        }

                        @Override
                        public void onCancelled(@NonNull DatabaseError databaseError) {

                        }
                    });
                }
            })
            .addOnFailureListener(new OnFailureListener() {
                @Override
                public void onFailure(@NonNull Exception e) {
                    pd.dismiss();
                    Toast.makeText(context, ""+e.getMessage(), Toast.LENGTH_SHORT).show();
                }
            });
    }

    private void deleteWithoutImage(String pId) {

        final ProgressDialog pd = new ProgressDialog(context);
        pd.setMessage("Deleting...");

        Query fquery =
FirebaseDatabase.getInstance().getReference("Posts").orderByChild("pId").equalTo(pId);

```

```

    fquery.addListenerForSingleValueEvent(new ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            for (DataSnapshot ds: dataSnapshot.getChildren()) {
                ds.getRef().removeValue();
            }
            Toast.makeText(context, "Deleted Successfully", Toast.LENGTH_SHORT).show();
            pd.dismiss();
        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {

        }
    });
}

@Override
public int getItemCount() {
    return postList.size();
}

class MyHolder extends RecyclerView.ViewHolder {

    ImageView uPictureIv, pImageIv;
    TextView uNameTv, pTimeTv, pTitleTv, pDescriptionTv, pLikesTv, pCommentsTv;
    ImageButton moreBtn;
    Button likeBtn, commentBtn, shareBtn;
    LinearLayout profileLayout;

    public MyHolder(@NonNull View itemView) {
        super(itemView);

        uPictureIv = itemView.findViewById(R.id.uPictureIv);
        pImageIv = itemView.findViewById(R.id.pImageIv);
        uNameTv = itemView.findViewById(R.id.uNameTv);
        pTimeTv = itemView.findViewById(R.id.pTimeTv);
        pTitleTv = itemView.findViewById(R.id.pTitleTv);
        pDescriptionTv = itemView.findViewById(R.id.pDescriptionTv);
        pLikesTv = itemView.findViewById(R.id.pLikesTv);
        pCommentsTv = itemView.findViewById(R.id.pCommentsTv);
        moreBtn = itemView.findViewById(R.id.moreBtn);
        likeBtn = itemView.findViewById(R.id.likeBtn);
        commentBtn = itemView.findViewById(R.id.commentBtn);
        shareBtn = itemView.findViewById(R.id.shareBtn);
        profileLayout = itemView.findViewById(R.id.profileLayout);
    }
}
}

```

AdapterUsers.java:

```

package com.bhargav.verifyproject.adapters;

import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.bhargav.verifyproject.ChatActivity;
import com.bhargav.verifyproject.R;
import com.bhargav.verifyproject.ThereProfileActivity;
import com.bhargav.verifyproject.models.ModelUser;
import com.squareup.picasso.Picasso;

import java.util.List;

public class AdapterUsers extends RecyclerView.Adapter<AdapterUsers.MyHolder>{

    Context context;
    List<ModelUser> userList;

    public AdapterUsers(Context context, List<ModelUser> userList) {
        this.context = context;
        this.userList = userList;
    }

    @NonNull
    @Override
    public MyHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {

        View view = LayoutInflater.from(context).inflate(R.layout.row_users, viewGroup, false);
        return new MyHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull MyHolder myHolder, int i) {

        final String hisUID = userList.get(i).getUid();
        String userImage = userList.get(i).getImage();
        String userName = userList.get(i).getName();
        final String userEmail = userList.get(i).getEmail();

        myHolder.mNameTv.setText(userName);

```



```

myHolder.mEmailTv.setText(userEmail);
try {
    Picasso.get().load(userImage)
        .placeholder(R.drawable.ic_default_img)
        .into(myHolder.mAvatarIv);
}
catch(Exception e) {

}

myHolder.itemView.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        AlertDialog.Builder builder = new AlertDialog.Builder(context);
        builder.setItems(new String[]{"Profile", "Chat"}, new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                if(which==0) {
                    Intent intent = new Intent(context, ThereProfileActivity.class);
                    intent.putExtra("uid",hisUID);
                    context.startActivity(intent);
                }
                if(which==1) {
                    Intent intent = new Intent(context, ChatActivity.class);
                    intent.putExtra("hisUid", hisUID);
                    context.startActivity(intent);
                }
            }
        });
        builder.create().show();
    }
});

@Override
public int getItemCount() {
    return userList.size();
}

class MyHolder extends RecyclerView.ViewHolder {

    ImageView mAvatarIv;
    TextView mNameTv, mEmailTv;

    public MyHolder(@NonNull View itemView) {
        super(itemView);

        mAvatarIv = itemView.findViewById(R.id.avatarIv);

```

```

        mNameTv = itemView.findViewById(R.id.nameTv);
        mEmailTv = itemView.findViewById(R.id.emailTv);
    }
}

```

Models in Java Folder (.java):

ModelChat.java:

```

package com.bhargav.verifyproject.models;

```

```

public class ModelChat {

    String message, receiver, sender, timestamp;
    boolean isSeen;

    public ModelChat() {
    }

    public ModelChat(String message, String receiver, String sender, String timestamp, boolean isSeen) {
        this.message = message;
        this.receiver = receiver;
        this.sender = sender;
        this.timestamp = timestamp;
        this.isSeen = isSeen;
    }

    public String getMessage() {
        return message;
    }

    public void setMessage(String message) {
        this.message = message;
    }

    public String getReceiver() {
        return receiver;
    }

    public void setReceiver(String receiver) {
        this.receiver = receiver;
    }

    public String getSender() {
        return sender;
    }

    public void setSender(String sender) {
        this.sender = sender;
    }
}

```

```

    }

    public String getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(String timestamp) {
        this.timestamp = timestamp;
    }

    public boolean isSeen() {
        return isSeen;
    }

    public void setSeen(boolean seen) {
        isSeen = seen;
    }
}

```

ModelChatlist.java:

```
package com.bhargav.verifyproject.models;
```

```

public class ModelChatlist {

    String id;

    public ModelChatlist() {
    }

    public ModelChatlist(String id) {
        this.id = id;
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }
}

```

ModelComment.java:

```
package com.bhargav.verifyproject.models;
```

```

public class ModelComment {

    String cId, comment, timestamp, uid, uEmail, uDp, uName;
}

```

```
public ModelComment() {  
    }  
  
public ModelComment(String cId, String comment, String timestamp, String uid, String uEmail,  
String uDp, String uName) {  
    this.cId = cId;  
    this.comment = comment;  
    this.timestamp = timestamp;  
    this.uid = uid;  
    this.uEmail = uEmail;  
    this.uDp = uDp;  
    this.uName = uName;  
    }  
  
public String getId() {  
    return cId;  
    }  
  
public void setId(String cId) {  
    this.cId = cId;  
    }  
  
public String getComment() {  
    return comment;  
    }  
  
public void setComment(String comment) {  
    this.comment = comment;  
    }  
  
public String getTimestamp() {  
    return timestamp;  
    }  
  
public void setTimestamp(String timestamp) {  
    this.timestamp = timestamp;  
    }  
  
public String getUid() {  
    return uid;  
    }  
  
public void setUid(String uid) {  
    this.uid = uid;  
    }  
  
public String getEmail() {  
    return uEmail;  
    }
```

```

    public void setuEmail(String uEmail) {
        this.uEmail = uEmail;
    }

    public String getuDp() {
        return uDp;
    }

    public void setuDp(String uDp) {
        this.uDp = uDp;
    }

    public String getuName() {
        return uName;
    }

    public void setuName(String uName) {
        this.uName = uName;
    }
}

```

ModelPost.java:

```

package com.bhargav.verifyproject.models;

```

```

public class ModelPost {

    String pId, pTitle, pDescr, pLikes, pComments, pImage, pTime, uid, uEmail, uDp, uName;

    public ModelPost() {

    }

    public ModelPost(String pId, String pTitle, String pDescr, String pLikes, String pComments, String
pImage, String pTime, String uid, String uEmail, String uDp, String uName) {
        this.pId = pId;
        this.pTitle = pTitle;
        this.pDescr = pDescr;
        this.pLikes = pLikes;
        this.pComments = pComments;
        this.pImage = pImage;
        this.pTime = pTime;
        this.uid = uid;
        this.uEmail = uEmail;
        this.uDp = uDp;
        this.uName = uName;
    }

    public String getpId() {
        return pId;
    }
}

```

```
public void setpId(String pId) {  
    this.pId = pId;  
}  
  
public String getpTitle() {  
    return pTitle;  
}  
  
public void setpTitle(String pTitle) {  
    this.pTitle = pTitle;  
}  
  
public String getpDescr() {  
    return pDescr;  
}  
  
public void setpDescr(String pDescr) {  
    this.pDescr = pDescr;  
}  
  
public String getpLikes() {  
    return pLikes;  
}  
  
public void setpLikes(String pLikes) {  
    this.pLikes = pLikes;  
}  
  
public String getpComments() {  
    return pComments;  
}  
  
public void setpComments(String pComments) {  
    this.pComments = pComments;  
}  
  
public String getpImage() {  
    return pImage;  
}  
  
public void setpImage(String pImage) {  
    this.pImage = pImage;  
}  
  
public String getpTime() {  
    return pTime;  
}  
  
public void setpTime(String pTime) {  
    this.pTime = pTime;  
}
```

```

    }

    public String getUid() {
        return uid;
    }

    public void setUid(String uid) {
        this.uid = uid;
    }

    public String getuEmail() {
        return uEmail;
    }

    public void setuEmail(String uEmail) {
        this.uEmail = uEmail;
    }

    public String getuDp() {
        return uDp;
    }

    public void setuDp(String uDp) {
        this.uDp = uDp;
    }

    public String getuName() {
        return uName;
    }

    public void setuName(String uName) {
        this.uName = uName;
    }
}

```

ModelUser.java:

```

package com.bhargav.verifyproject.models;

public class ModelUser {

    String name, email, search, phone, image, cover, uid, onlineStatus, typingTo;

    public ModelUser() {

    }

    public ModelUser(String name, String email, String search, String phone, String image, String cover,
String uid, String onlineStatus, String typingTo) {
        this.name = name;
        this.email = email;
    }
}

```

```
    this.search = search;
    this.phone = phone;
    this.image = image;
    this.cover = cover;
    this.uid = uid;
    this.onlineStatus = onlineStatus;
    this.typingTo = typingTo;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getEmail() {
    return email;
}

public void setEmail(String email) {
    this.email = email;
}

public String getSearch() {
    return search;
}

public void setSearch(String search) {
    this.search = search;
}

public String getPhone() {
    return phone;
}

public void setPhone(String phone) {
    this.phone = phone;
}

public String getImage() {
    return image;
}

public void setImage(String image) {
    this.image = image;
}

public String getCover() {
    return cover;
}
```



```

    }

    public void setCover(String cover) {
        this.cover = cover;
    }

    public String getUid() {
        return uid;
    }

    public void setUid(String uid) {
        this.uid = uid;
    }

    public String getOnlineStatus() {
        return onlineStatus;
    }

    public void setOnlineStatus(String onlineStatus) {
        this.onlineStatus = onlineStatus;
    }

    public String getTypingTo() {
        return typingTo;
    }

    public void setTypingTo(String typingTo) {
        this.typingTo = typingTo;
    }
}

```

Notifications in Java Folder (.java):

APIService.java (Interface):

```
package com.bhargav.verifyproject.notifications;
```

```
import retrofit2.Call;
import retrofit2.http.Body;
import retrofit2.http.Headers;
import retrofit2.http.POST;
```

```
public interface APIService {
```

```
    @Headers({
        "Content-Type:application/json",
```

```
        "Authorization:key=AAAAxwMsWFE:APA91bEeThcontIWyGzXBd__aCZsBiwBSoWYcscUihH
        QEzWP_-QeJunW-c_WcbuFSwNFEpHZAsVVcMJASkzwJ-
        J2cSIq6CgsgY6QD09Bgaz6Z0T1D_c7nOgkO9h3JpZtwMWTZxNVj9DU"
    })

```

```

    @POST("fcm/send")
    Call<Response> sendNotification(@Body Sender body);
}

```

Client.java:

```

package com.bhargav.verifyproject.notifications;

import retrofit2.Retrofit;
import retrofit2.converter.gson.GsonConverterFactory;

public class Client {

    private static Retrofit retrofit = null;

    public static Retrofit getRetrofit(String url) {
        if (retrofit == null) {
            retrofit = new Retrofit.Builder()
                .baseUrl(url)
                .addConverterFactory(GsonConverterFactory.create())
                .build();
        }
        return retrofit;
    }
}

```

Data.java:

```

package com.bhargav.verifyproject.notifications;

public class Data {

    private String user, body, title, sent;
    private Integer icon;

    public Data() {
    }

    public Data(String user, String body, String title, String sent, Integer icon) {
        this.user = user;
        this.body = body;
        this.title = title;
        this.sent = sent;
        this.icon = icon;
    }

    public String getUser() {
        return user;
    }
}

```

```

public void setUser(String user) {
    this.user = user;
}

public String getBody() {
    return body;
}

public void setBody(String body) {
    this.body = body;
}

public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}

public String getSent() {
    return sent;
}

public void setSent(String sent) {
    this.sent = sent;
}

public Integer getIcon() {
    return icon;
}

public void setIcon(Integer icon) {
    this.icon = icon;
}
}

```

FirebaseMessaging.java:

```

package com.bhargav.verifyproject.notifications;

import android.app.Notification;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.media.RingtoneManager;
import android.net.Uri;

```

```
import android.os.Build;
import android.os.Bundle;
```

```
import androidx.core.app.NotificationCompat;
```

```
import com.bhargav.verifyproject.ChatActivity;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.messaging.FirebaseMessagingService;
import com.google.firebase.messaging.RemoteMessage;
```

```
public class FirebaseMessaging extends FirebaseMessagingService {
```

```
    @Override
```

```
    public void onMessageReceived(RemoteMessage remoteMessage) {
        super.onMessageReceived(remoteMessage);
```

```
        SharedPreferences sp = getSharedPreferences("SP_USER", MODE_PRIVATE);
        String savedCurrentUser = sp.getString("Current_USERID", "None");
        String sent = remoteMessage.getData().get("sent");
        String user = remoteMessage.getData().get("user");
        FirebaseUser fUser = FirebaseAuth.getInstance().getCurrentUser();
        if (fUser != null && sent.equals(fUser.getId())) {
            if (!savedCurrentUser.equals(user)) {
                if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
                    sendOAndAboveNotifications(remoteMessage);
                }
                else {
                    sendNormalNotification(remoteMessage);
                }
            }
        }
    }
}
```

```
private void sendNormalNotification(RemoteMessage remoteMessage) {
```

```
    String user = remoteMessage.getData().get("user");
    String icon = remoteMessage.getData().get("icon");
    String title = remoteMessage.getData().get("title");
    String body = remoteMessage.getData().get("body");
```

```
    RemoteMessage.Notification notification = remoteMessage.getNotification();
    int i = Integer.parseInt(user.replaceAll("[\\D]", ""));
    Intent intent = new Intent(this, ChatActivity.class);
    Bundle bundle = new Bundle();
    bundle.putString("hisUid", user);
    intent.putExtras(bundle);
    intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
    PendingIntent pIntent = PendingIntent.getActivity(this, i, intent,
        PendingIntent.FLAG_ONE_SHOT);
```

```
    Uri defSoundUri = RingtoneManager.getDefaultUri(RingtoneManager.TYPE_NOTIFICATION);
```

```

NotificationCompat.Builder builder = new NotificationCompat.Builder(this)
    .setSmallIcon(Integer.parseInt(icon))
    .setContentText(body)
    .setContentTitle(title)
    .setAutoCancel(true)
    .setSound(defSoundUri)
    .setContentIntent(pIntent);

NotificationManager notificationManager =
(NotificationManager)getSystemService(Context.NOTIFICATION_SERVICE);
    int j = 0;
    if (i>0) {
        j = i;
    }
    notificationManager.notify(j,builder.build());
}

private void sendOAndAboveNotifications(RemoteMessage remoteMessage) {
    String user = remoteMessage.getData().get("user");
    String icon = remoteMessage.getData().get("icon");
    String title = remoteMessage.getData().get("title");
    String body = remoteMessage.getData().get("body");

    RemoteMessage.Notification notification = remoteMessage.getNotification();
    int i = Integer.parseInt(user.replaceAll("[\\D]", ""));
    Intent intent = new Intent(this, ChatActivity.class);
    Bundle bundle = new Bundle();
    bundle.putString("hisUid", user);
    intent.putExtras(bundle);
    intent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
    PendingIntent pIntent = PendingIntent.getActivity(this, i, intent,
    PendingIntent.FLAG_ONE_SHOT);

    Uri defSoundUri = RingtoneManager.getDefaultUri(RingtoneManager.TYPE_NOTIFICATION);

    OreoAndAboveNotification notification1 = new OreoAndAboveNotification(this);
    Notification.Builder builder = notification1.getONotifications(title,body,pIntent, defSoundUri,icon);

    int j = 0;
    if (i>0) {
        j = i;
    }
    notification1.getManager().notify(j,builder.build());
}
}

```

FirestoreService.java:

```

package com.bhargav.verifyproject.notifications;

```

```

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.iid.FirebaseInstanceId;
import com.google.firebase.iid.FirebaseInstanceIdService;

public class FirebaseService extends FirebaseInstanceIdService {

    @Override
    public void onTokenRefresh() {
        super.onTokenRefresh();
        FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
        String tokenRefresh = FirebaseInstanceId.getInstance().getToken();
        if (user != null) {
            updateToken(tokenRefresh);
        }
    }

    private void updateToken(String tokenRefresh) {
        FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
        DatabaseReference ref = FirebaseDatabase.getInstance().getReference("Tokens");
        Token token = new Token(tokenRefresh);
        ref.child(user.getId()).setValue(token);
    }
}

```

OreoAndAboveNotification.java:

```

package com.bhargav.verifyproject.notifications;

import android.annotation.TargetApi;
import android.app.Notification;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.ContextWrapper;
import android.net.Uri;
import android.os.Build;

public class OreoAndAboveNotification extends ContextWrapper {

    private static final String ID = "some_id";
    private static final String NAME = "VerifyProject";

    private NotificationManager notificationManager;

    public OreoAndAboveNotification(Context base) {
        super(base);
    }

```

```

        if(Build.VERSION.SDK_INT>=Build.VERSION_CODES.O) {
            createChannel();
        }
    }

    @TargetApi(Build.VERSION_CODES.O)
    private void createChannel() {
        NotificationChannel notificationChannel = new NotificationChannel(ID, NAME,
NotificationManager.IMPORTANCE_DEFAULT);
        notificationChannel.enableLights(true);
        notificationChannel.enableVibration(true);
        notificationChannel.setLockscreenVisibility(Notification.VISIBILITY_PRIVATE);
        getManager().createNotificationChannel(notificationChannel);
    }

    public NotificationManager getManager() {
        if(notificationManager == null) {
            notificationManager =
(NotificationManager)getSystemService(Context.NOTIFICATION_SERVICE);
        }
        return notificationManager;
    }

    @TargetApi(Build.VERSION_CODES.O)
    public Notification.Builder getONotifications(String title,
        String body,
        PendingIntent pIntennt,
        Uri soundUri,
        String icon) {
        return new Notification.Builder(getApplicationContext(), ID)
            .setContentIntent(pIntennt)
            .setContentTitle(title)
            .setContentText(body)
            .setSound(soundUri)
            .setAutoCancel(true)
            .setSmallIcon(Integer.parseInt(icon));
    }
}

```

Response.java:

```

package com.bhargav.verifyproject.notifications;

public class Response {

    private String success;
}

```

Sender.java:

```
package com.bhargav.verifyproject.notifications;
```

```
public class Sender {
```

```
    private Data data;  
    private String to;
```

```
    public Sender() {  
    }
```

```
    public Sender(Data data, String to) {  
        this.data = data;  
        this.to = to;  
    }
```

```
    public Data getData() {  
        return data;  
    }
```

```
    public void setData(Data data) {  
        this.data = data;  
    }
```

```
    public String getTo() {  
        return to;  
    }
```

```
    public void setTo(String to) {  
        this.to = to;  
    }  
}
```

Token.java:

```
package com.bhargav.verifyproject.notifications;
```

```
public class Token {
```

```
    String token;
```

```
    public Token() {  
    }
```

```
    public Token(String token) {  
        this.token = token;  
    }
```

```
    public String getToken() {  
        return token;  
    }
```



```
public void setToken(String token) {  
    this.token = token;  
}  
}
```