**package** com.ahmed.ahmedmohamed.facefamiledemo;  
  
**import** android.support.annotation.NonNull;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**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.ServerValue;  
**import** com.google.firebase.database.ValueEventListener;  
**import** com.squareup.picasso.Picasso;  
  
**import** java.text.DateFormat;  
**import** java.util.Date;  
**import** java.util.HashMap;  
  
**import** de.hdodenhof.circleimageview.CircleImageView;  
  
**public class** ProfileActivity **extends** AppCompatActivity {  
  
 **private** TextView **FirstName**, **LastName**, **City**, **TotalFriends**, **Phone**;  
 **private** CircleImageView **profilePic**;  
 **private** Button **SendRequest**, **declineFriendreq**;  
  
 **private** DatabaseReference **UserDataBase**;  
 **private** DatabaseReference **mFriendReqDatabase**;  
 **private** DatabaseReference **mFriendDataBase**;  
 **private** DatabaseReference **mNotificationsDatabse**;  
 **private** DatabaseReference **mRoot**;  
 **private** FirebaseUser **mCurrentUser**;  
 **private** FirebaseAuth **mAuth**;  
 **private** String **mCurrent\_user\_id**;  
  
 **private** String **mCurrentState**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_profile***);  
  
 **final** String user\_id = getIntent().getStringExtra(**"user\_id"**);  
 **UserDataBase** = FirebaseDatabase.*getInstance*().getReference().child(**"Users"**).child(user\_id);  
 **mFriendReqDatabase** = FirebaseDatabase.*getInstance*().getReference().child(**"Friend\_req"**);  
 **mFriendDataBase** = FirebaseDatabase.*getInstance*().getReference().child(**"Friends"**);  
 **mNotificationsDatabse** = FirebaseDatabase.*getInstance*().getReference().child(**"notifications"**);  
 **mCurrentUser** = FirebaseAuth.*getInstance*().getCurrentUser();  
 **mRoot** = FirebaseDatabase.*getInstance*().getReference();  
  
 **mAuth** = FirebaseAuth.*getInstance*();  
 **mCurrent\_user\_id** = **mAuth**.getCurrentUser().getUid();  
  
 **FirstName** = (TextView) findViewById(R.id.***firstname***);  
 **LastName** = (TextView) findViewById(R.id.***lastname***);  
 **City** = (TextView) findViewById(R.id.***country***);  
 **Phone** = (TextView) findViewById(R.id.***phone***);  
 **TotalFriends** = (TextView) findViewById(R.id.***totalfriend***);  
 **profilePic** = (CircleImageView) findViewById(R.id.***profilepic***);  
 **SendRequest** = (Button) findViewById(R.id.***sendfriendreq***);  
 **declineFriendreq** = (Button) findViewById(R.id.***declinfriendreq***);  
  
 **if**(**mCurrent\_user\_id**.equals(user\_id)){  
 **SendRequest**.setVisibility(View.***INVISIBLE***);  
 }  
 **mCurrentState** = **"not\_friend"**;  
  
 **UserDataBase**.addValueEventListener(**new** ValueEventListener() {  
 @Override  
 **public void** onDataChange(DataSnapshot dataSnapshot) {  
 String firstname = dataSnapshot.child(**"FirstName"**).getValue().toString();  
 String lastname = dataSnapshot.child(**"LastName"**).getValue().toString();  
 String phone1 = dataSnapshot.child(**"Phone"**).getValue().toString();  
 String gender1 = dataSnapshot.child(**"Gender"**).getValue().toString();  
 String city1 = dataSnapshot.child(**"City"**).getValue().toString();  
 String profileImagUrl = dataSnapshot.child(**"Image"**).getValue().toString();  
  
 **FirstName**.setText(firstname);  
 **LastName**.setText(lastname);  
 **City**.setText(city1);  
 **Phone**.setText(phone1);  
 Picasso.*with*(ProfileActivity.**this**).load(profileImagUrl).placeholder(R.drawable.***userphoto***).into(**profilePic**);  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
 **mFriendReqDatabase**.child(**mCurrentUser**.getUid()).addListenerForSingleValueEvent(**new** ValueEventListener() {  
 @Override  
 **public void** onDataChange(DataSnapshot dataSnapshot) {  
  
 **if** (dataSnapshot.hasChild(user\_id)){  
  
 String req\_type = dataSnapshot.child(user\_id).child(**"request\_type"**).getValue().toString();  
  
 **if** (req\_type.equals(**"recieved"**)){  
  
 **mCurrentState** = **"req\_recieved"**;  
 **SendRequest**.setText(**"ACCEPT FRIEND REQUEST"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button4***));  
  
 **declineFriendreq**.setVisibility(View.***VISIBLE***);  
 **declineFriendreq**.setEnabled(**true**);  
  
 }**else if** (req\_type.equals(**"sent"**)){  
  
 **mCurrentState** = **"req\_sent"**;  
 **SendRequest**.setText(**"CANCEL FRIEND REQUEST"**);  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
 }  
 }**else** {  
 **mFriendDataBase**.child(**mCurrentUser**.getUid()).addListenerForSingleValueEvent(**new** ValueEventListener() {  
 @Override  
 **public void** onDataChange(DataSnapshot dataSnapshot) {  
  
 **if** (dataSnapshot.hasChild(user\_id)){  
  
 **mCurrentState** = **"friends"**;  
 **SendRequest**.setText(**"UnFRIEND This Person"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button4***));  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
 }  
 }  
  
 @Override  
 **public void** onCancelled(DatabaseError databaseError) {  
  
 }  
 });  
 }  
 }  
  
 @Override  
 **public void** onCancelled(DatabaseError databaseError) {  
  
 }  
 });  
 }  
  
 @Override  
 **public void** onCancelled(DatabaseError databaseError) {  
  
 }  
 });  
  
 **SendRequest**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
  
 **SendRequest**.setEnabled(**false**);  
  
 *// \_\_\_\_\_\_\_\_Not Friend State \_\_\_\_\_\_\_* **if** (**mCurrentState**.equals(**"not\_friend"**)){  
  
 **mFriendReqDatabase**.child(**mCurrentUser**.getUid()).child(user\_id).child(**"request\_type"**)  
 .setValue(**"sent"**).addOnCompleteListener(**new** OnCompleteListener<Void>() {  
 @Override  
 **public void** onComplete(@NonNull Task<Void> task) {  
  
 **if** (task.isSuccessful()){  
  
 **mFriendReqDatabase**.child(user\_id).child(**mCurrentUser**.getUid()).child(**"request\_type"**)  
 .setValue(**"recieved"**).addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 HashMap<String , String> notificationData = **new** HashMap<>();  
 notificationData.put(**"from"**, **mCurrentUser**.getUid());  
 notificationData.put(**"type"**, **"request"**);  
  
 **mNotificationsDatabse**.child(user\_id).push().setValue(notificationData)  
 .addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mCurrentState** = **"req\_sent"**;  
 **SendRequest**.setText(**"CANCEL FRIEND REQUEST"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button3***));  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
  
 Toast.*makeText*(ProfileActivity.**this**, **"Request sent Successfully."**, Toast.***LENGTH\_LONG***).show();  
  
 }  
 });  
  
  
 }  
 });  
 }**else**{  
 Toast.*makeText*(ProfileActivity.**this**, **"Faild Sending Request."**, Toast.***LENGTH\_LONG***).show();  
 }  
 **SendRequest**.setEnabled(**true**);  
  
 }  
 });  
 }  
  
 *// \_\_\_\_\_\_\_\_Cancel Friend State \_\_\_\_\_\_\_* **if** (**mCurrentState**.equals(**"req\_sent"**)){  
  
 **mFriendReqDatabase**.child(**mCurrentUser**.getUid()).child(user\_id).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mFriendReqDatabase**.child(user\_id).child(**mCurrentUser**.getUid()).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **SendRequest**.setEnabled(**true**);  
 **mCurrentState** = **"not\_friend"**;  
 **SendRequest**.setText(**"SEND FRIEND REQUEST"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button4***));  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
 }  
 });  
 }  
 });  
  
 }  
  
  
 *// \_\_\_\_\_\_\_\_UnFriend State \_\_\_\_\_\_\_* **if** (**mCurrentState**.equals(**"friends"**)){  
  
 **mFriendDataBase**.child(**mCurrentUser**.getUid()).child(user\_id).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mFriendDataBase**.child(user\_id).child(**mCurrentUser**.getUid()).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **SendRequest**.setEnabled(**true**);  
 **mCurrentState** = **"not\_friend"**;  
 **SendRequest**.setText(**"SEND FRIEND REQUEST"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button4***));  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
 }  
 });  
 }  
 });  
  
 }  
  
 *// \_\_\_\_\_\_\_\_Req Received State \_\_\_\_\_\_\_* **if** (**mCurrentState**.equals(**"req\_recieved"**)){  
  
 **final** String currentDate = DateFormat.*getDateTimeInstance*().format(**new** Date());  
 **mFriendDataBase**.child(**mCurrentUser**.getUid()).child(user\_id).child(**"date"**)  
 .setValue(currentDate).addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mFriendDataBase**.child(user\_id).child(**mCurrentUser**.getUid()).child(**"date"**)  
 .setValue(currentDate).addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mFriendReqDatabase**.child(**mCurrentUser**.getUid()).child(user\_id).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mFriendReqDatabase**.child(user\_id).child(**mCurrentUser**.getUid()).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **SendRequest**.setEnabled(**true**);  
 **mCurrentState** = **"friends"**;  
 **SendRequest**.setText(**"UnFRIEND This Person"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button4***));  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
 }  
 });  
 }  
 });  
  
 }  
 });  
  
 }  
 });  
 }  
  
 }  
 });  
  
 **declineFriendreq**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
  
 **mFriendReqDatabase**.child(**mCurrentUser**.getUid()).child(user\_id).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **mFriendReqDatabase**.child(user\_id).child(**mCurrentUser**.getUid()).removeValue().addOnSuccessListener(**new** OnSuccessListener<Void>() {  
 @Override  
 **public void** onSuccess(Void aVoid) {  
  
 **SendRequest**.setEnabled(**true**);  
 **mCurrentState** = **"not\_friend"**;  
 **SendRequest**.setText(**"SEND FRIEND REQUEST"**);  
 **SendRequest**.setBackground(ProfileActivity.**this**.getResources().getDrawable(R.drawable.***button4***));  
  
 **declineFriendreq**.setVisibility(View.***INVISIBLE***);  
 **declineFriendreq**.setEnabled(**false**);  
  
 }  
 });  
 }  
 });  
  
 }  
  
 });  
  
 }  
  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 *// Check if user is signed in (non-null) and update UI accordingly.* FirebaseUser currentUser = **mAuth**.getCurrentUser();  
  
 **if** (currentUser !=**null**)  
 {  
 **mRoot**.child(**"Users"**).child(**mCurrent\_user\_id**).child(**"online"**).setValue(**"true"**);  
  
 }  
 }  
  
 @Override  
 **protected void** onPause() {  
 **super**.onPause();  
  
 **mRoot**.child(**"Users"**).child(**mCurrent\_user\_id**).child(**"online"**).setValue(ServerValue.***TIMESTAMP***);  
  
 }  
}