MainActivity.java

**public class** MainActivity **extends** AppCompatActivity {  
 **private** EditText **mloginemail**,**mloginpassword**;  
 **private** RelativeLayout **mlogin**,**mgotosignup**;  
 **private** TextView **mgotoforgotpassword**;  
  
 **private** FirebaseAuth **firebaseAuth**;  
  
 ProgressBar **mprogressbarofmainactivity**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 getSupportActionBar().hide();  
  
 **mloginemail**=findViewById(R.id.***loginemail***);  
 **mloginpassword**=findViewById(R.id.***loginpassword***);  
 **mlogin**=findViewById(R.id.***login***);  
 **mgotoforgotpassword**=findViewById(R.id.***gotoforgotpassword***);  
 **mgotosignup**=findViewById(R.id.***gotosignup***);  
 **mprogressbarofmainactivity**=findViewById(R.id.***progressbarofmainactivity***);  
  
 **firebaseAuth**=FirebaseAuth.*getInstance*();  
 FirebaseUser firebaseUser=**firebaseAuth**.getCurrentUser();  
  
 **if**(firebaseUser!=**null**)  
 {  
 finish();  
 startActivity(**new** Intent(MainActivity.**this**,notesactivity.**class**));  
 }  
  
  
  
 **mgotosignup**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(MainActivity.**this**,SignUp.**class**));  
 }  
 });  
  
 **mgotoforgotpassword**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(MainActivity.**this**,ForgotPassword.**class**));  
 }  
 });  
  
  
 **mlogin**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String mail=**mloginemail**.getText().toString().trim();  
 String password=**mloginpassword**.getText().toString().trim();  
  
 **if**(mail.isEmpty()|| password.isEmpty())  
 {  
 Toast.*makeText*(getApplicationContext(),**"All Field Are Required"**,Toast.***LENGTH\_SHORT***).show();  
  
 }  
 **else** {  
 *// login the user* **mprogressbarofmainactivity**.setVisibility(View.***VISIBLE***);  
  
 **firebaseAuth**.signInWithEmailAndPassword(mail,password)  
 .addOnCompleteListener(**new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
  
  
 **if**(task.isSuccessful())  
 {  
 checkmailverfication();  
 }  
 **else** {  
 Toast  
 .*makeText*(getApplicationContext(),  
 **"Account Doesn't Exist"**,Toast.***LENGTH\_SHORT***).show();  
 **mprogressbarofmainactivity**.setVisibility(View.***INVISIBLE***);  
 }  
  
  
 }  
 });  
  
  
  
  
 }  
 }  
 });  
  
 }  
  
  
 **private void** checkmailverfication()  
 {  
 FirebaseUser firebaseUser=**firebaseAuth**.getCurrentUser();  
  
 **if**(firebaseUser.isEmailVerified()==**true**)  
 {  
 Toast.*makeText*(getApplicationContext(),**"Logged In"**,Toast.***LENGTH\_SHORT***).show();  
 finish();  
 startActivity(**new** Intent(MainActivity.**this**,notesactivity.**class**));  
 }  
 **else** {  
 **mprogressbarofmainactivity**.setVisibility(View.***INVISIBLE***);  
 Toast.*makeText*(getApplicationContext(),**"Verify your mail first"**,Toast.***LENGTH\_SHORT***).show();  
 **firebaseAuth**.signOut();  
 }  
 }}

activity\_main.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=".MainActivity"**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/centerline"  
 android:layout\_centerInParent="true"**>  
  
 </**RelativeLayout**>  
 <**ProgressBar  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/gotoforgotpassword"  
 android:layout\_centerHorizontal="true"  
 android:visibility="invisible"  
 android:id="@+id/progressbarofmainactivity"  
 android:layout\_marginTop="10dp"**>  
  
 </**ProgressBar**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_above="@id/centerline"  
 android:layout\_marginBottom="150dp"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Welcome Back !"  
 android:textSize="42sp"  
 android:textColor="#ffB040"  
 android:textStyle="bold"** ></**TextView**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Log In To Continue"  
 android:textSize="23sp"  
 android:textColor="#ff8596"**>  
  
 </**TextView**>  
 </**LinearLayout**>  
  
 <**com.google.android.material.textfield.TextInputLayout  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/centerline"  
 android:layout\_marginBottom="10dp"  
 android:id="@+id/email"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"** >  
  
 <**EditText  
 android:id="@+id/loginemail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter your Email"  
 android:inputType="textEmailAddress"**>  
  
 </**EditText**>  
 </**com.google.android.material.textfield.TextInputLayout**>  
  
 <**com.google.android.material.textfield.TextInputLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/centerline"  
 android:layout\_marginTop="10dp"  
 android:id="@+id/password"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 app:passwordToggleEnabled="true"** >  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/loginpassword"  
 android:hint="Enter your Password"** >  
  
 </**EditText**>  
 </**com.google.android.material.textfield.TextInputLayout**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginTop="30dp"  
 android:background="@drawable/button\_design"  
 android:layout\_below="@id/password"  
 android:id="@+id/login"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textStyle="bold"  
 android:layout\_marginStart="8dp"  
 android:textSize="16sp"  
 android:text="Log In"  
 android:layout\_centerInParent="true"  
 android:textColor="@color/white"** ></**TextView**>  
 </**RelativeLayout**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/login"  
 android:layout\_centerInParent="true"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="7dp"  
 android:id="@+id/gotoforgotpassword"  
 android:layout\_marginRight="20dp"  
 android:text="Forgot Password"  
 android:textAlignment="center"  
 android:textColor="@color/black"**>  
  
 </**TextView**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginBottom="30dp"  
 android:background="@drawable/button\_design"  
 android:layout\_alignParentBottom="true"  
 android:id="@+id/gotosignup"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textStyle="bold"  
 android:layout\_marginStart="8dp"  
 android:textSize="16sp"  
 android:text="New user want to sign in?"  
 android:layout\_centerInParent="true"  
 android:textColor="@color/white"** ></**TextView**>  
 </**RelativeLayout**>  
</**RelativeLayout**>

Graphical user interface, application

Description automatically generated

SignUp.java

**public class** SignUp **extends** AppCompatActivity {  
 **private** EditText **msignupemail**,**msignuppassword**;  
 **private** RelativeLayout **msignup**;  
 **private** TextView **mgotologin**;  
  
  
 **private** FirebaseAuth **firebaseAuth**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_sign\_up***);  
  
 getSupportActionBar().hide();  
  
 **msignupemail**=findViewById(R.id.***signupemail***);  
 **msignuppassword**=findViewById(R.id.***signuppassword***);  
 **msignup**=findViewById(R.id.***signup***);  
 **mgotologin**=findViewById(R.id.***gotologin***);  
  
 **firebaseAuth**= FirebaseAuth.*getInstance*();  
  
  
  
  
  
 **mgotologin**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent intent=**new** Intent(SignUp.**this**,MainActivity.**class**);  
 startActivity(intent);  
 }  
 });  
  
 **msignup**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 String mail=**msignupemail**.getText().toString().trim();  
 String password=**msignuppassword**.getText().toString().trim();  
  
 **if**(mail.isEmpty() || password.isEmpty())  
 {  
 Toast.*makeText*(getApplicationContext(),**"All Fields are Required"**,Toast.***LENGTH\_SHORT***).show();  
 }  
 **else if**(password.length()<7)  
 {  
 Toast.*makeText*(getApplicationContext(),**"Password Should Greater than 7 Digits"**,Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 */// registered the user to firebase* **firebaseAuth**.createUserWithEmailAndPassword(mail,password).addOnCompleteListener(**new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
  
 **if**(task.isSuccessful())  
 {  
 Toast.*makeText*(getApplicationContext(),**"Registration Successful"**,Toast.***LENGTH\_SHORT***).show();  
 sendEmailVerification();  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(),**"Failed To Register"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
  
 }  
 });  
  
 }  
  
 }  
 });  
  
  
 }  
  
 *//send email verification* **private void** sendEmailVerification()  
 {  
 FirebaseUser firebaseUser=**firebaseAuth**.getCurrentUser();  
 **if**(firebaseUser!=**null**)  
 {  
 firebaseUser.sendEmailVerification().addOnCompleteListener(**new** OnCompleteListener<Void>() {  
 @Override  
 **public void** onComplete(@NonNull Task<Void> task) {  
 Toast.*makeText*(getApplicationContext(),**"Verification Email is Sent,Verify and Log In Again"**,Toast.***LENGTH\_SHORT***).show();  
 **firebaseAuth**.signOut();  
 finish();  
 startActivity(**new** Intent(SignUp.**this**,MainActivity.**class**));  
 }  
 });  
 }  
  
 **else** {  
 Toast.*makeText*(getApplicationContext(),**"Failed To Send Verification Email"**,Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
  
}

activity\_sign\_up.xml

<**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="#f9f9f9"  
 tools:context=".SignUp"**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/centerline2"  
 android:layout\_centerInParent="true"**>  
  
 </**RelativeLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_above="@id/centerline2"  
 android:layout\_marginBottom="150dp"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="New User"  
 android:textSize="42sp"  
 android:textColor="#ffB040"  
 android:textStyle="bold"** ></**TextView**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Nice to see you here"  
 android:textSize="23sp"  
 android:textColor="#ff8596"**>  
  
 </**TextView**>  
 </**LinearLayout**>  
 <**com.google.android.material.textfield.TextInputLayout  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/centerline2"  
 android:layout\_marginBottom="10dp"  
 android:id="@+id/email"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"** >  
  
 <**EditText  
 android:id="@+id/signupemail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter your Email"  
 android:inputType="textEmailAddress"**>  
  
 </**EditText**>  
 </**com.google.android.material.textfield.TextInputLayout**>  
  
 <**com.google.android.material.textfield.TextInputLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/centerline2"  
 android:layout\_marginTop="10dp"  
 android:id="@+id/password"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginLeft="30dp"  
 app:passwordToggleEnabled="true"** >  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/signuppassword"  
 android:hint="Enter your Password"** >  
  
 </**EditText**>  
 </**com.google.android.material.textfield.TextInputLayout**>  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginTop="30dp"  
 android:background="@drawable/button\_design"  
 android:layout\_below="@id/password"  
 android:id="@+id/signup"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textStyle="bold"  
 android:layout\_marginStart="8dp"  
 android:textSize="16sp"  
 android:text="Sign up"  
 android:layout\_centerInParent="true"  
 android:textColor="@color/white"** ></**TextView**>  
 </**RelativeLayout**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textAlignment="center"  
 android:text="Want to Login?"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginRight="20dp"  
 android:textColor="@color/black"  
 android:layout\_below="@id/signup"  
 android:id="@+id/gotologin"  
 android:layout\_marginTop="70dp"**>  
  
 </**TextView**>  
  
</**RelativeLayout**>

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ForgotPassword.java

**public class** ForgotPassword **extends** AppCompatActivity {  
 **private** EditText **mforgotpassword**;  
 **private** Button **mpasswordrecoverbutton**;  
 **private** TextView **mgobacktologin**;  
  
 FirebaseAuth **firebaseAuth**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_forgot\_password***);  
  
 getSupportActionBar().hide();  
  
 **mforgotpassword**=findViewById(R.id.***forgotpassword***);  
 **mpasswordrecoverbutton**=findViewById(R.id.***passwordrecoverbutton***);  
 **mgobacktologin**=findViewById(R.id.***gobacktologin***);  
  
 **firebaseAuth**= FirebaseAuth.*getInstance*();  
  
  
 **mgobacktologin**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent intent=**new** Intent(ForgotPassword.**this**,MainActivity.**class**);  
 startActivity(intent);  
 }  
 });  
  
 **mpasswordrecoverbutton**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String mail=**mforgotpassword**.getText().toString().trim();  
 **if**(mail.isEmpty())  
 {  
 Toast.*makeText*(getApplicationContext(),**"Enter your mail first"**,Toast.***LENGTH\_SHORT***).show();  
 }  
 **else** {  
 *//we have to send password recover email* **firebaseAuth**.sendPasswordResetEmail(mail).addOnCompleteListener(**new** OnCompleteListener<Void>() {  
 @Override  
 **public void** onComplete(@NonNull Task<Void> task) {  
  
 **if** (task.isSuccessful())  
 {  
 Toast.*makeText*(getApplicationContext(),  
 **"Mail Sent , You can recover your password using mail"**,Toast.***LENGTH\_SHORT***).show();  
 finish();  
 startActivity(**new** Intent(ForgotPassword.**this**,MainActivity.**class**));  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(),  
 **"Email is Wrong or Account Not Exist"**,Toast.***LENGTH\_SHORT***).show();  
 }  
  
  
 }  
 });  
  
 }  
 }  
 });  
  
  
 }  
}

activity\_forgot\_password.xml

<**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=".ForgotPassword"**>  
  
 <**RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/centerline3"  
 android:layout\_centerInParent="true"**>  
  
 </**RelativeLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_above="@id/centerline3"  
 android:layout\_marginBottom="120dp"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Forgot Password"  
 android:textSize="35sp"  
 android:textColor="@color/black"  
 android:textStyle="bold"** ></**TextView**>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Dont worry we are here"  
 android:textSize="23sp"  
 android:textColor="@color/black"**>  
  
 </**TextView**>  
 </**LinearLayout**>  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_above="@id/centerline3"  
 android:id="@+id/forgotpassword"  
 android:hint="Enter your registered mail"  
 android:layout\_marginBottom="10dp"**>  
  
 </**EditText**>  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:text="Click here to recover"  
 android:id="@+id/passwordrecoverbutton"  
 android:layout\_below="@id/centerline3"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"**>  
  
 </**Button**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:text="Go Back to Login Screen"  
 android:id="@+id/gobacktologin"  
 android:layout\_marginBottom="30dp"  
 android:textSize="20sp"  
 android:textColor="@color/black"  
 android:textAlignment="center"**>  
  
 </**TextView**>  
</**RelativeLayout**>

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