package com.example.myfirebaseprog;

public class User {

public String name, age, email, pass;

public User(){

}

public User(String name, String age, String email, String pass){

this.name = name;

this.age = age;

this.email = email;

this.pass = pass;

}

}

REGISTRATION

package com.example.myfirebaseprog;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Patterns;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.ProgressBar;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.auth.AuthResult;

import com.google.firebase.auth.FirebaseAuth;

import com.google.firebase.database.FirebaseDatabase;

public class RegisterMainActivity extends AppCompatActivity {

private EditText n1, a1, e1,p1;

private Button b;

private FirebaseAuth mAuth;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.register\_main);

mAuth = FirebaseAuth.getInstance();

n1 = (EditText) findViewById(R.id.editTextTextPersonName3);

a1 = (EditText) findViewById(R.id.editTextTextPersonName4);

e1 = (EditText) findViewById(R.id.editTextTextPersonName6);

p1 = (EditText) findViewById(R.id.editTextTextPersonName7);

b =(Button) findViewById(R.id.button2);

ProgressBar p = (ProgressBar) findViewById(R.id.progressBar);

p.setVisibility(View.GONE);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name = n1.getText().toString().trim();

String age = a1.getText().toString().trim();

String email = e1.getText().toString().trim();

String pass = p1.getText().toString().trim();

if(name.isEmpty()){

n1.setError("Name is required");

n1.requestFocus();

return;

}

if(age.isEmpty()){

a1.setError("Age is required");

a1.requestFocus();

return;

}

if(email.isEmpty()){

e1.setError("Email is required");

e1.requestFocus();

return;

}

if(!Patterns.EMAIL\_ADDRESS.matcher(email).matches()){

e1.setError("Please provide valid email ID");

e1.requestFocus();

return;

}

if(pass.isEmpty()){

p1.setError("Password is required");

p1.requestFocus();

return;

}

if(pass.length() <6){

p1.setError("Minimum length should be 6 characters");

p1.requestFocus();

return;

}

p.setVisibility(View.VISIBLE);

mAuth.createUserWithEmailAndPassword(email, pass)

.addOnCompleteListener(new OnCompleteListener<AuthResult>() {

@Override

public void onComplete(@NonNull Task<AuthResult> task) {

if(task.isSuccessful()){

User user = new User(name, age, email,pass);

FirebaseDatabase.getInstance().getReference("User")

.child(FirebaseAuth.getInstance().getCurrentUser().getUid())

.setValue(user).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Toast.makeText(RegisterMainActivity.this, "User has been registred successfuly!", Toast.LENGTH\_LONG).show();

p.setVisibility(View.GONE);

n1.setText("");

a1.setText("");

e1.setText("");

p1.setText("");

} else{

Toast.makeText(RegisterMainActivity.this, "Registration Failed! Try Again!", Toast.LENGTH\_LONG).show();

p.setVisibility(View.GONE);

}

}

});

} else{

Toast.makeText(RegisterMainActivity.this, "Registration Failed! Try Again!", Toast.LENGTH\_LONG).show();

p.setVisibility(View.GONE);

}

}

});

}

});

}

}

LOGIN

package com.example.myfirebaseprog;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.util.Patterns;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.ProgressBar;

import android.widget.TextView;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.auth.AuthResult;

import com.google.firebase.auth.FirebaseAuth;

public class MainActivity extends AppCompatActivity {

private TextView register, forgotpassword;

private EditText emailadd, password;

private Button signin;

private FirebaseAuth mAuth;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

register = (TextView) findViewById(R.id.textView2);

emailadd = (EditText) findViewById(R.id.editTextTextPersonName);

password = (EditText) findViewById(R.id.editTextTextPersonName2);

signin = (Button) findViewById(R.id.button);

forgotpassword = (TextView) findViewById(R.id.textView);

mAuth = FirebaseAuth.getInstance();

signin.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String e = emailadd.getText().toString().trim();

String p = password.getText().toString().trim();

mAuth.signInWithEmailAndPassword(e, p).addOnCompleteListener(new OnCompleteListener<AuthResult>() {

@Override

public void onComplete(@NonNull Task<AuthResult> task) {

if(task.isSuccessful()){

startActivity(new Intent(MainActivity.this, NotesActivity.class));

}else{

Toast.makeText(MainActivity.this, "Login Failed! Try Again!", Toast.LENGTH\_LONG).show();

}

}

});

}

});

register.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

startActivity(new Intent(MainActivity.this, RegisterMainActivity.class));

}

});

forgotpassword.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

startActivity(new Intent(MainActivity.this, ForgotpasswordActivity.class));

}

});

}

}

package com.example.myfirebaseprog;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.auth.FirebaseAuth;

public class ForgotpasswordActivity extends AppCompatActivity {

private EditText emailid;

private Button reset;

FirebaseAuth mAuth;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.forgotpassword);

emailid = (EditText) findViewById(R.id.editTextTextPersonName5);

reset = (Button) findViewById(R.id.button4);

mAuth = FirebaseAuth.getInstance();

reset.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String email = emailid.getText().toString().trim();

mAuth.sendPasswordResetEmail(email).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Toast.makeText(ForgotpasswordActivity.this,"Link for reset the password is sent to your emailid.", Toast.LENGTH\_LONG).show();

}else{

Toast.makeText(ForgotpasswordActivity.this,"Sorry something goes wrong.", Toast.LENGTH\_LONG).show();

}

}

});

}

});

}

}

NOTES

package com.example.myfirebaseprog;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import com.google.firebase.auth.FirebaseAuth;

public class NotesActivity extends AppCompatActivity {

private Button logout;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.notes);

logout = (Button) findViewById(R.id.button3);

logout.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

FirebaseAuth.getInstance().signOut();

startActivity(new Intent(NotesActivity.this, MainActivity.class));

}

});

}

}

<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">  
  
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 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="1dp"  
 android:layout\_marginTop="98dp"  
 android:ems="10"  
 android:hint="Enter User Name"  
 android:inputType="textPersonName" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginTop="166dp"  
 android:ems="10"  
 android:hint="Enter Password"  
 android:inputType="textPersonName" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="178dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="110dp"  
 android:layout\_marginTop="245dp"  
 android:text="Button" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="78dp"  
 android:layout\_marginTop="304dp"  
 android:text="Forget Password" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginTop="304dp"  
 android:layout\_marginEnd="102dp"  
 android:text="Register" />  
</RelativeLayout>

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 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=".RegisterMainActivity">  
  
 <EditText  
 android:id="@+id/editTextTextPersonName3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginTop="32dp"  
 android:ems="10"  
 android:hint="Enter Name"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 tools:layout\_editor\_absoluteX="6dp"  
 tools:layout\_editor\_absoluteY="39dp" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginTop="113dp"  
 android:ems="10"  
 android:hint="Age"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 tools:layout\_editor\_absoluteX="10dp"  
 tools:layout\_editor\_absoluteY="101dp" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName6"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="-2dp"  
 android:layout\_marginTop="216dp"  
 android:ems="10"  
 android:hint="Email"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 tools:layout\_editor\_absoluteX="4dp"  
 tools:layout\_editor\_absoluteY="160dp" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName7"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="0dp"  
 android:layout\_marginTop="307dp"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 tools:layout\_editor\_absoluteX="6dp"  
 tools:layout\_editor\_absoluteY="218dp" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="30dp"  
 android:layout\_marginBottom="114dp"  
 android:text="Register User"  
 tools:layout\_editor\_absoluteX="11dp"  
 tools:layout\_editor\_absoluteY="315dp" />  
  
 <ProgressBar  
 android:id="@+id/progressBar"  
 style="?android:attr/progressBarStyle"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="285dp" />  
  
</RelativeLayout>

<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=".ForgetpasswordActivity">  
  
 <EditText  
 android:id="@+id/editTextTextPersonName5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="167dp"  
 android:ems="10"  
 android:hint="email"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:layout\_editor\_absoluteY="52dp" />  
  
 <Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginTop="234dp"  
 android:layout\_marginEnd="142dp"  
 android:text="Button"  
 tools:layout\_editor\_absoluteX="104dp"  
 tools:layout\_editor\_absoluteY="225dp" />  
  
</RelativeLayout>

<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=".NotesActivity">  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="90dp"  
 android:layout\_marginTop="182dp"  
 android:text="Hello Everyone"  
 android:textAlignment="center"  
 android:textColor="@color/purple\_700"  
 android:textSize="34sp" />  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerInParent="true"  
 android:layout\_marginStart="167dp"  
 android:layout\_marginTop="339dp"  
 android:text="LogOut" />  
  
</RelativeLayout>