

filepaths.xml

<?xml version="1.0" encoding="utf-8"?>  
  
<paths xmlns:android="http://schemas.android.com/apk/res/android">  
 <external-path  
 name="camara"  
 path="Android/data/Com.example.foto/files/fotos" />  
</paths>

MainActivity

package com.example.foto;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.ActivityCompat;  
import androidx.core.content.ContextCompat;  
import androidx.core.content.FileProvider;  
  
import android.Manifest;  
import android.content.Context;  
import android.content.ContextWrapper;  
import android.content.Intent;  
import android.content.pm.PackageManager;  
import android.graphics.Bitmap;  
import android.graphics.BitmapFactory;  
import android.graphics.drawable.BitmapDrawable;  
import android.net.Uri;  
import android.os.Bundle;  
import android.os.Environment;  
import android.provider.MediaStore;  
import android.util.Log;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ImageButton;  
import android.widget.ImageView;  
import android.widget.Toast;  
  
import java.io.File;  
import java.io.FileNotFoundException;  
import java.io.FileOutputStream;  
import java.io.IOException;  
import java.net.HttpURLConnection;  
import java.net.URL;  
import java.text.SimpleDateFormat;  
import java.util.Date;  
  
public class MainActivity extends AppCompatActivity {  
// public static final String URL = http://www.thebiblescholar.com/android\_awesome.jpg;  
  
 static final int *REQUEST\_TAKE\_PHOTO* = 1;  
 private static final int *REQUEST\_IMAGE\_CAPTURE* = 1;  
 private ImageView img;  
 private ImageButton btn;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 img=findViewById(R.id.*imageView2*);  
 btn=findViewById(R.id.*imageButton2*);  
  
  
 if (ContextCompat.*checkSelfPermission*(MainActivity.this, Manifest.permission.*WRITE\_EXTERNAL\_STORAGE*) != PackageManager.*PERMISSION\_GRANTED* && ActivityCompat.*checkSelfPermission*(MainActivity.this, Manifest.permission.*CAMERA*) != PackageManager.*PERMISSION\_GRANTED*) {  
 ActivityCompat.*requestPermissions*(MainActivity.this, new String[]{Manifest.permission.*WRITE\_EXTERNAL\_STORAGE*, Manifest.permission.*CAMERA*}, 1000);  
 }  
  
  
  
 }  
  
  
  
  
/\*  
 String currentPhotoPath;  
  
 private File createImageFile() throws IOException {  
 // Create an image file name  
 String timeStamp = new SimpleDateFormat("yyyyMMdd\_HHmmss").format(new Date());  
 String imageFileName = "bck\_" + timeStamp + "\_";  
 File storageDir = getExternalFilesDir(Environment.DIRECTORY\_PICTURES);  
  
 Log.i("fotoprj","imageFileName"+imageFileName);  
  
Log.i("fotoprj","storageDir"+storageDir.getAbsolutePath());  
 File image = File.createTempFile(  
 imageFileName, /\* prefix \* /  
 ".jpg", /\* suffix \* /  
 storageDir /\* directory \* /  
 );  
  
 // Save a file: path for use with ACTION\_VIEW intents  
 currentPhotoPath = image.getAbsolutePath();  
 return image;  
 }  
  
\*/  
  
 public void TomarFoto(View v) {  
 Intent takePictureIntent = new Intent(MediaStore.*ACTION\_IMAGE\_CAPTURE*);  
 // Ensure that there's a camera activity to handle the intent  
 Toast.*makeText*(this,"antes en if",Toast.*LENGTH\_LONG*).show();  
// if (takePictureIntent.resolveActivity(getPackageManager()) != null) {  
// Toast.makeText(this,"entro en if",Toast.LENGTH\_LONG).show();  
// // Create the File where the photo should go  
// File photoFile = null;  
// try {  
// photoFile = createImageFile();  
// } catch (IOException ex) {  
// // Error occurred while creating the File  
// }  
// // Continue only if the File was successfully created  
// if (photoFile != null) {  
// Uri photoURI = FileProvider.getUriForFile(this,  
// "com.example.android.fileprovider",  
// photoFile);  
// takePictureIntent.putExtra(MediaStore.EXTRA\_OUTPUT, photoURI);  
 startActivityForResult(takePictureIntent, *REQUEST\_TAKE\_PHOTO*);  
// }  
// }  
 }  
  
 private Bitmap descargarImagen (String imageHttpAddress){  
 URL imageUrl = null;  
 Bitmap imagen = null;  
 try{  
 imageUrl = new URL(imageHttpAddress);  
 HttpURLConnection conn = (HttpURLConnection) imageUrl.openConnection();  
 conn.connect();  
 imagen = BitmapFactory.*decodeStream*(conn.getInputStream());  
 }catch(IOException ex){  
 ex.printStackTrace();  
 }  
  
 return imagen;  
 }  
  
 public void Grabar(View v){  
 Bitmap imagen = ((BitmapDrawable)img.getDrawable()).getBitmap();  
  
 String ruta = guardarImagen(getApplicationContext(), "imagen", imagen);  
  
 Toast.*makeText*(getApplicationContext(), ruta, Toast.*LENGTH\_LONG*).show();  
  
 }  
 private String guardarImagen (Context context, String nombre, Bitmap imagen){  
 ContextWrapper cw = new ContextWrapper(context);  
 File dirImages = cw.getDir("Images", Context.*MODE\_PRIVATE*);  
 File myPath = new File(dirImages, nombre + ".png");  
  
 FileOutputStream fos = null;  
 try{  
 fos = new FileOutputStream(myPath);  
 imagen.compress(Bitmap.CompressFormat.*JPEG*, 10, fos);  
 fos.flush();  
 }catch (FileNotFoundException ex){  
 ex.printStackTrace();  
 }catch (IOException ex){  
 ex.printStackTrace();  
 }  
 return myPath.getAbsolutePath();  
 }  
  
  
  
  
 @Override  
 protected void onActivityResult(int requestCode, int resultCode, Intent data) {  
 super.onActivityResult(requestCode, resultCode, data);  
 if (requestCode == *REQUEST\_IMAGE\_CAPTURE* && resultCode == *RESULT\_OK*) {  
 Bundle extras = data.getExtras();  
 Bitmap imageBitmap = (Bitmap) extras.get("data");  
 img.setImageBitmap(imageBitmap);  
 }  
 }  
  
}

AndroidManifest

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.foto">  
  
 <uses-feature android:name="android.hardware.camera2" android:required="true" />  
 <uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE" />  
  
  
  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Foto">  
 <activity android:name=".MainActivity">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
  
 <provider  
 android:name="androidx.core.content.FileProvider"  
 android:authorities="com.example.myapp.fileprovider"  
 android:grantUriPermissions="true"  
 android:exported="false">  
 <meta-data  
 android:name="android.support.FILE\_PROVIDER\_PATHS"  
 android:resource="@xml/filepaths" />  
 </provider>  
 </application>  
  
</manifest>