Image Downloader (Async task) change in manifest.xml

Activity.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="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:padding="150dp"  
 tools:context=".MainActivity"**>  
  
 <**Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Load the img here!"** />  
 <**ImageView  
 android:id="@+id/img1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"** />  
  
</**LinearLayout**>

Mainactivity.java

**package** com.example.imgloader;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.graphics.Bitmap;  
**import** android.graphics.BitmapFactory;  
**import** android.os.AsyncTask;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
**import** android.widget.Toast;  
**import** java.io.InputStream;  
**import** java.net.HttpURLConnection;  
**import** java.net.URL;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private** ImageView **img**;  
 **private** Button **btnd**;  
  
 *// Use a direct image URL* **private static final** String ***IMAGE\_URL*** = **"https://upload.wikimedia.org/wikipedia/commons/c/ca/LinkedIn\_logo\_initials.png"**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **img** = findViewById(R.id.***img1***);  
 **btnd** = findViewById(R.id.***btn1***);  
  
 **btnd**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **new** ImageDownloader().execute(***IMAGE\_URL***);  
 }  
 });  
 }  
  
 *// AsyncTask to download the image* **private class** ImageDownloader **extends** AsyncTask<String, Void, Bitmap> {  
 @Override  
 **protected** Bitmap doInBackground(String... urls) {  
 HttpURLConnection connection = **null**;  
 InputStream input = **null**;  
 **try** {  
 URL url = **new** URL(urls[0]);  
 connection = (HttpURLConnection) url.openConnection();  
 connection.setDoInput(**true**);  
 connection.setConnectTimeout(10000); *// 10s timeout* connection.setReadTimeout(10000);  
 connection.connect();  
  
 input = connection.getInputStream();  
 **return** BitmapFactory.*decodeStream*(input);  
 } **catch** (Exception e) {  
 e.printStackTrace();  
 **return null**;  
 } **finally** {  
 **try** {  
 **if** (input != **null**) input.close();  
 **if** (connection != **null**) connection.disconnect();  
 } **catch** (Exception ignored) {}  
 }  
 }  
  
 @Override  
 **protected void** onPostExecute(Bitmap bitmap) {  
 **if** (bitmap != **null**) {  
 **img**.setImageBitmap(bitmap);  
 Toast.*makeText*(getApplicationContext(), **"Download Successful!"**, Toast.***LENGTH\_LONG***).show();  
 } **else** {  
 Toast.*makeText*(getApplicationContext(), **"Download Failed!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 }  
}

manifest.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"**>  
 <**uses-permission android:name="android.permission.INTERNET"**/>  
 <**uses-permission android:name="android.permission.ACCESS\_NETWORK\_STATE"**/>  
  
 <**application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Imgloader"  
 tools:targetApi="31"**>  
 <**activity  
 android:name=".MainActivity"  
 android:exported="true"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
  
 <**meta-data  
 android:name="android.app.lib\_name"  
 android:value=""** />  
 </**activity**>  
 </**application**>  
  
</**manifest**>

Dependencies

dependencies **{** implementation **'androidx.appcompat:appcompat:1.4.1'** implementation **'com.google.android.material:material:1.5.0'** implementation **'androidx.constraintlayout:constraintlayout:2.1.3'** *// Unit test dependencies* testImplementation **'junit:junit:4.13.2'** *// Android Instrumentation test dependencies* androidTestImplementation **'androidx.test.ext:junit:1.1.3'** androidTestImplementation **'androidx.test.espresso:espresso-core:3.4.0'  
}**