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Asignatura:

Desarrollo de Software para Moviles

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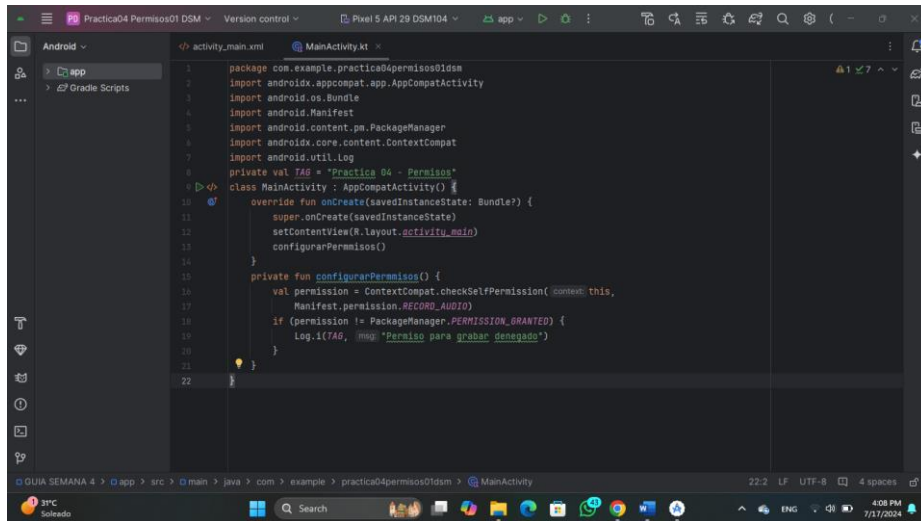
G01L

Ejemplos

Capturas de pantallas de los ejemplos

EJEMPLO 1: verificar permisos

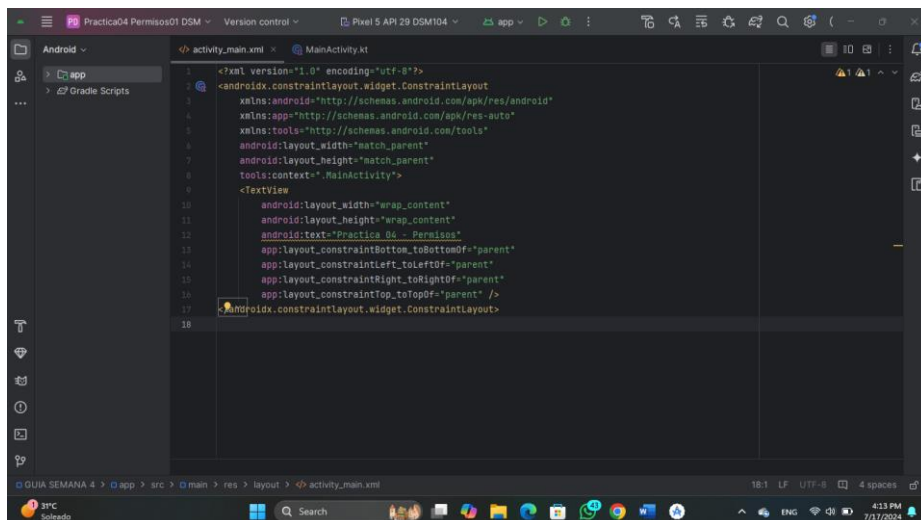
Primero modificamos el archivo de MainActivity.kt



The screenshot shows the MainActivity.kt file in Android Studio. The code defines a MainActivity class that inherits from AppCompatActivity. It includes imports for various Android classes like AppCompatActivity, Bundle, Manifest, PackageManager, ContextCompat, and Log. A private val TAG is set to "Practica 04 - Permisos". The onCreate method calls super.onCreate, setContentView, and configurarPermisos. The configurarPermisos method checks for the RECORD_AUDIO permission using ContextCompat.checkSelfPermission. If the permission is not granted, it logs a message: "Permiso para grabar denegado".

```
1 package com.example.practica04permisos01dsm
2 import androidx.appcompat.app.AppCompatActivity
3 import android.os.Bundle
4 import android.Manifest
5 import android.content.pm.PackageManager
6 import android.content.ContextCompat
7 import android.util.Log
8 private val TAG = "Practica 04 - Permisos"
9 class MainActivity : AppCompatActivity() {
10     override fun onCreate(savedInstanceState: Bundle?) {
11         super.onCreate(savedInstanceState)
12         setContentView(R.layout.activity_main)
13         configurarPermisos()
14     }
15     private fun configurarPermisos() {
16         val permission = ContextCompat.checkSelfPermission(this,
17             Manifest.permission.RECORD_AUDIO)
18         if (permission != PackageManager.PERMISSION_GRANTED) {
19             Log.i(TAG, "Permiso para grabar denegado")
20         }
21     }
22 }
```

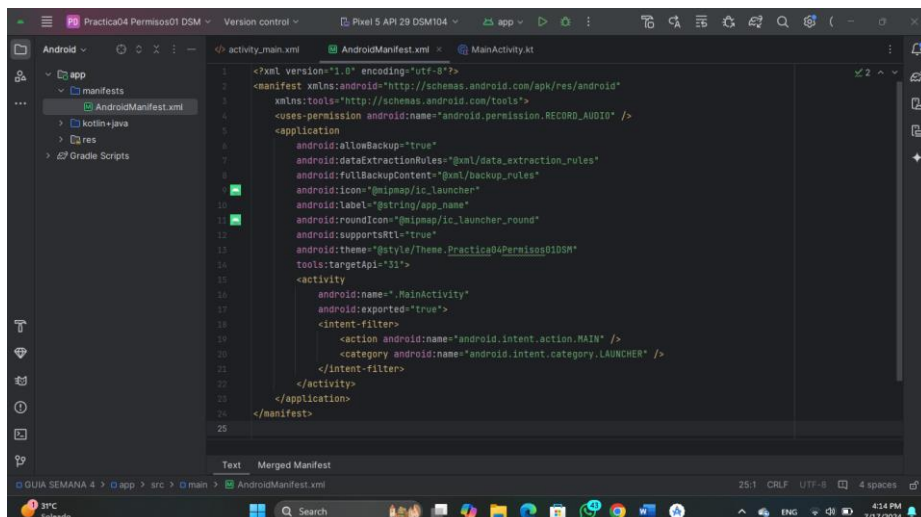
Luego Modificamos el archivo de activity_main.xml



The screenshot shows the activity_main.xml file in Android Studio. The XML defines a ConstraintLayout with a single TextView. The TextView has attributes for layout_width, layout_height, and text. The text is "Practica 04 - Permisos". The layout is configured with constraints to match the parent and wrap the content.

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     xmlns:app="http://schemas.android.com/apk/res-auto"
5     xmlns:tools="http://schemas.android.com/tools"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     tools:context=".MainActivity">
9     <TextView
10         android:layout_width="wrap_content"
11         android:layout_height="wrap_content"
12         android:text="Practica 04 - Permisos"
13         app:layout_constraintBottom_toBottomOf="parent"
14         app:layout_constraintLeft_toLeftOf="parent"
15         app:layout_constraintRight_toRightOf="parent"
16         app:layout_constraintTop_toTopOf="parent" />
17 </androidx.constraintlayout.widget.ConstraintLayout>
```

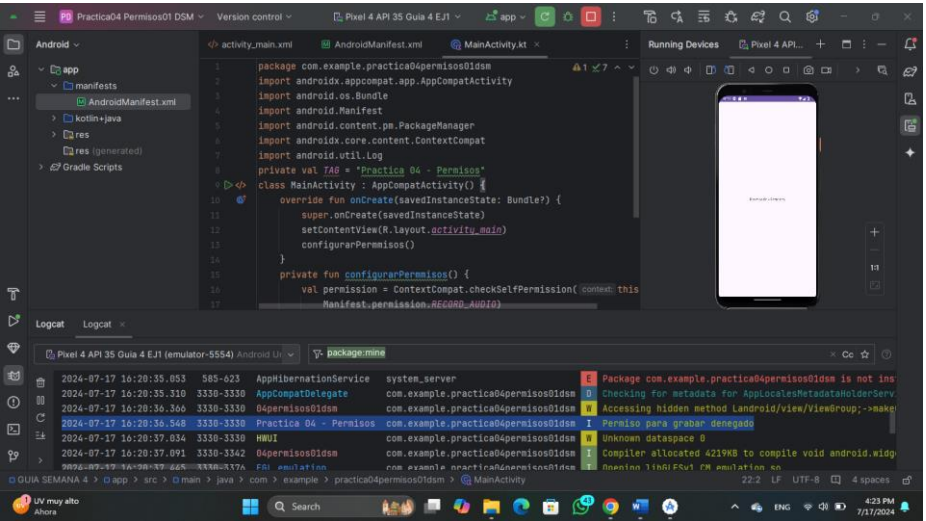
Después modificamos el archivo de AndroidManifest.xml



The screenshot shows the AndroidManifest.xml file in Android Studio. The manifest includes the RECORD_AUDIO permission. The application is configured with a backup rule, a launcher icon, and a theme. The MainActivity is declared as the main activity.

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:tools="http://schemas.android.com/tools">
4     <uses-permission android:name="android.permission.RECORD_AUDIO" />
5     <application
6         android:allowBackup="true"
7         android:dataExtractionRules="@xml/data_extraction_rules"
8         android:fullBackupContent="@xml/backup_rules"
9         android:icon="@mipmap/ic_launcher"
10        android:label="@string/app_name"
11        android:roundIcon="@mipmap/ic_launcher_round"
12        android:supportRtl="true"
13        android:theme="@style/Theme.Practica04Permisos01DSM"
14        tools:targetApi="31">
15        <activity
16            android:name=".MainActivity"
17            android:exported="true">
18            <intent-filter>
19                <action android:name="android.intent.action.MAIN" />
20                <category android:name="android.intent.category.LAUNCHER" />
21            </intent-filter>
22        </activity>
23    </application>
24 </manifest>
```

Finalmente, corremos la aplicación con un emulador y luego revisamos la pantalla de Logcat



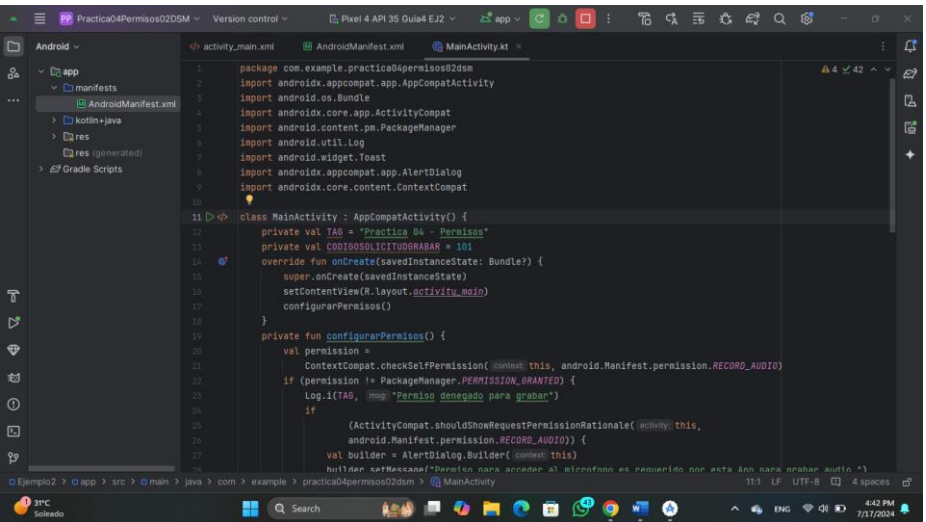
```
package com.example.practica04permisos01dsm
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.Manifest
import android.content.pm.PackageManager
import android.core.content.ContextCompat
import android.util.Log
private val TAG = "Practica 04 - Permisos"
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        configurarPermisos()
    }
    private fun configurarPermisos() {
        val permission = ContextCompat.checkSelfPermission(this,
            Manifest.permission.RECORD_AUDIO)
    }
}
```

Logcat

| Time | Level | Package | Message |
|-------------------------|-------|-------------------------------------|-----------------------------------------------------------------------------------------|
| 2024-07-17 16:20:35.053 | W | com.example.practica04permisos01dsm | Package com.example.practica04permisos01dsm is not installed |
| 2024-07-17 16:20:35.310 | D | com.example.practica04permisos01dsm | Checking for metadata for AppLocalesMetadataHolderService |
| 2024-07-17 16:20:35.330 | W | com.example.practica04permisos01dsm | Accessing hidden method Landroid/view/ViewGroup; ->makeMeasureSpec(I)Z |
| 2024-07-17 16:20:35.548 | I | com.example.practica04permisos01dsm | Permiso para grabar denegado |
| 2024-07-17 16:20:37.034 | W | com.example.practica04permisos01dsm | Unknown data space 0 |
| 2024-07-17 16:20:37.091 | I | com.example.practica04permisos01dsm | Compiler allocated 4219KB to compile void android.widget.TextView.setText(CharSequence) |

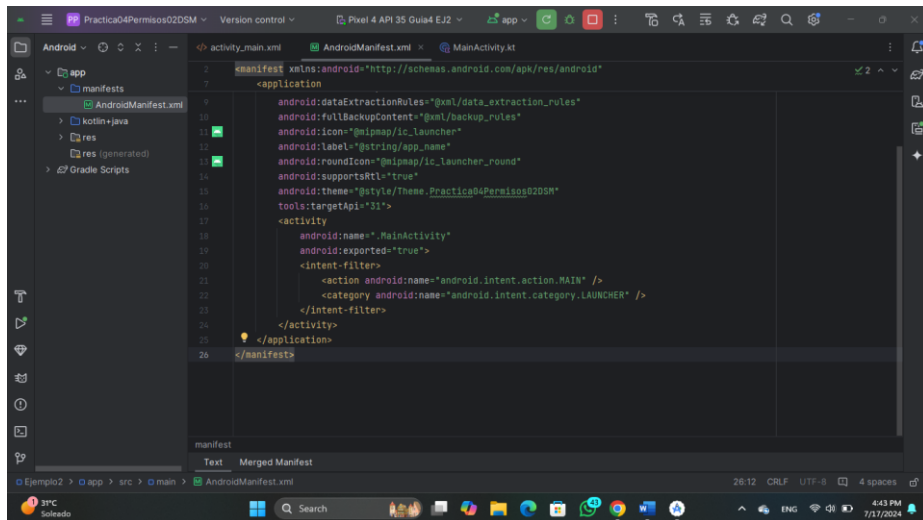
EJEMPLO 2: Gestión de Permisos

Primero Modificamos el archivo de MainActivity.kt

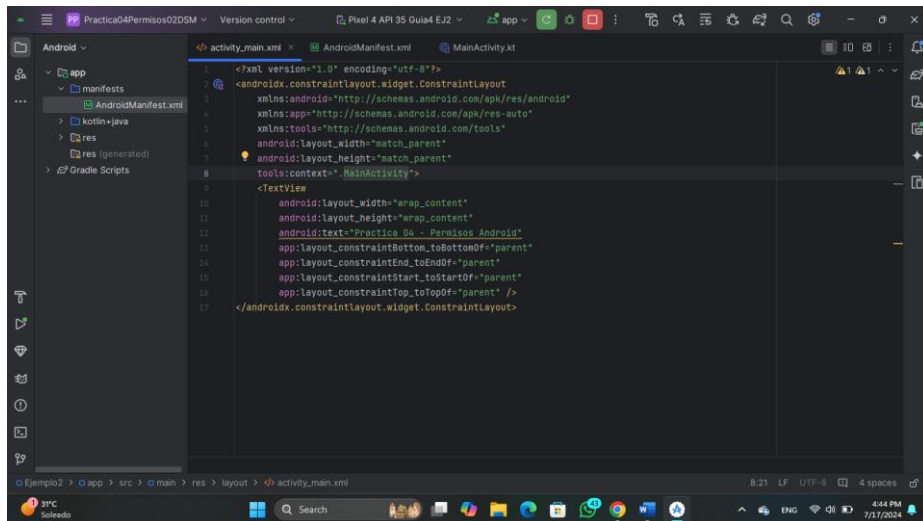


```
package com.example.practica04permisos02dsm
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.content.pm.PackageManager
import android.util.Log
import android.widget.Toast
import android.core.content.ContextCompat
private val TAG = "Practica 04 - Permisos"
private val CODIGO_SOLICITUD_GRABAR = 101
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        configurarPermisos()
    }
    private fun configurarPermisos() {
        val permission =
            ContextCompat.checkSelfPermission(this, android.Manifest.permission.RECORD_AUDIO)
        if (permission != PackageManager.PERMISSION_GRANTED) {
            Log.i(TAG, "Permiso denegado para grabar")
            if (
                ActivityCompat.shouldShowRequestPermissionRationale(this,
                    android.Manifest.permission.RECORD_AUDIO)
            ) {
                val builder = AlertDialog.Builder(this)
                builder.setTitle("Permiso para acceder al micrófono es requerido para esta app para grabar audio")
            }
        }
    }
}
```

Luego modificamos el archivo AndroidManifest.xml



Y luego editamos el archivo de activity_main.xml



Finalmente veremos lo siguiente en el emulador

