

## **PROYECTO FINAL - SENSORES**

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## Sensor de Detección de Pasos (Step Detector)

## Código de MainActivity.java

```
package com.example.stepdetector;
       import android.hardware.SensorEvent;
       import android.hardware.SensorEventListener;
   protected void onCreate(Bundle savedInstanceState) {
       getWindow().addFlags(WindowManager.LayoutParams.FLAG KEEP SCREEN ON);
       tvv1=findViewById(R.id.tv1);
```

```
if(sensorManager.getDefaultSensor(Sensor.TYPE STEP DETECTOR)!=null)
sensorManager.getDefaultSensor(Sensor.TYPE STEP DETECTOR);
   public void onSensorChanged(SensorEvent sensorEvent) {
        if (sensorEvent.sensor==mStepCounter) {
       else if(sensorEvent.sensor==mStepDetector){
           stepDetect=(int) (stepDetect+sensorEvent.values[0]);
           textViewStepDetector.setText(String.valueOf(stepDetect));
   protected void onAcurrencyChanged(Sensor sensor, int i){
   protected void onResume(){
       super.onResume();
           sensorManager.registerListener((SensorEventListener) this,
       if (sensorManager.getDefaultSensor(Sensor.TYPE STEP DETECTOR)!=null)
           sensorManager.registerListener((SensorEventListener) this,
       super.onPause();
       if(sensorManager.getDefaultSensor(Sensor.TYPE STEP COUNTER)!=null)
           sensorManager.unregisterListener((SensorEventListener) this,
```

## Código de activity\_main.xml

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
    android:textSize="32dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.071" />
<TextView
    android:layout width="wrap content"
<TextView
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.513" />

<TextView
    android:id="@+id/tvCounter"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Counter"
    android:textsize="30dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.345" />

android:id="@+id/tvDetector"
    android:layout_width="285dp"
    android:layout_height="80dp"
    android:text="Detector"
    android:text="Detector"
    android:textSize="30dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintNertical_bias="0.662" />

</p
```