

APLICACIONES MÓVILES

Tarea virtual 2

ESTUDIANTE: Larrea Mancilla Andrés Alfredo

ASIGNATURA: Aplicaciones Móviles

CURSO: DSE08





Tarea virtual 2

Tema:

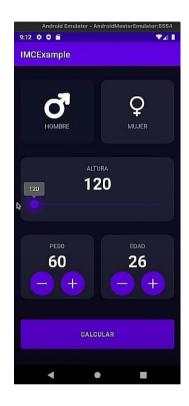
Diseño de un prototipo para iniciar una aplicación móvil

Objetivo:

El objetivo de la actividad es que el estudiante inicie el diseño de una aplicación completa para una empresa seleccionada.

Instrucciones:

- 1. Diseñar una app que realice los cálculos de IMC (Índice de masa corporal).
- 2. Utilizar ConstraintLayout para el layout principal.
- Crear espacios correspondientes que dividirán la pantalla principal de nuestra app utilizando el componente cardView.
- 4. La interfaz final debe asemejarse a la imagen propuesta.
- 5. Se deben crear solo los cardView, mas no los componentes que se encuentran dentro de ellas.

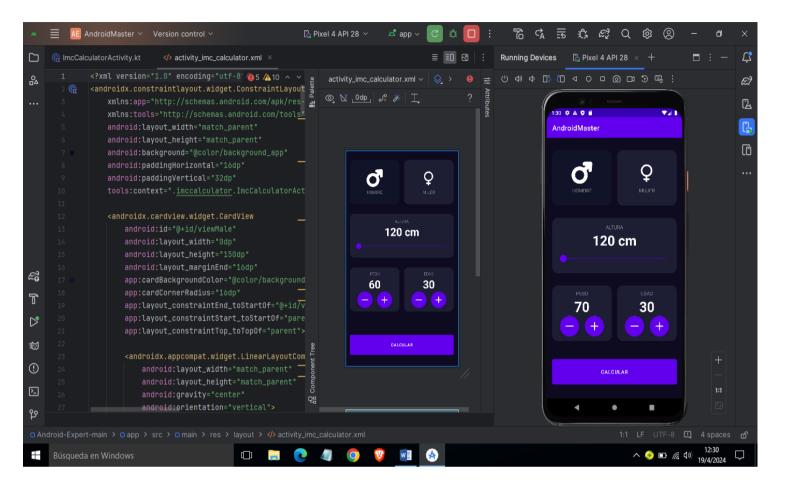


Valor: 15ptos





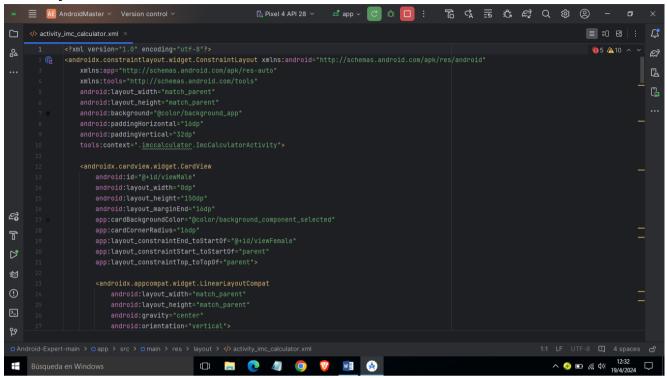
CAPTURA DE PANTALLA DEL PROYECTO







activity_imc_calculator.xml



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:topls="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
android:layout height="match parent"
android:layout_height="match parent"
android:paddingBorizontal="l6dp"
android:paddingBorizontal="l6dp"
android:paddingVertical="32dp"
tools:context=".imccalculator.ImcCalculatorActivity">

<androidx.cardview.widget.CardView
android:layout_width="0dp"
android:layout_height="l50dp"
android:layout_height="l50dp"
app:cardSackgroundColor="@color/background_component_selected"
app:cardSackgroundColor="@color/background_component_selected"
app:cardCornerRadius="16dp"
app:layout_constraintEnd_toStartOf="@+id/viewFemale"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"

<android:layout_width="match_parent"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_
```





```
android:textAllCaps="true"
    </androidx.appcompat.widget.LinearLayoutCompat>
</androidx.cardview.widget.CardView>
    app:layout constraintStart toEndOf="@+id/viewMale"
    app:layout constraintTop toTopOf="parent">
        android:layout width="match parent"
        android:layout height="match parent"
        android:gravity="center"
        android:orientation="vertical">
        <ImageView</pre>
            android:layout width="60dp"
            android:layout height="60dp"
            app:tint="@color/white" />
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout marginTop="8dp"
            android:text="@string/female"
            android:textAllCaps="true"
            android:textColor="@color/title text" />
<androidx.cardview.widget.CardView</pre>
    android:layout width="0dp"
    android:layout height="wrap content"
    app:layout_constraintTop toBottomOf="@+id/viewMale">
    <androidx.appcompat.widget.LinearLayoutCompat</pre>
        android:layout_height="wrap_content"
android:layout_margin="16dp"
```





```
android:textAllCaps="true"
        <TextView
            android:layout width="match parent"
            android:layout height="wrap content"
            android:stepSize="1"
            android:valueTo="200" />
    </androidx.appcompat.widget.LinearLayoutCompat>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView</pre>
    android:id="@+id/viewWeight"
    android:layout width="0dp"
    android:layout height="150dp"
    android:layout marginTop="32dp"
    android:layout marginEnd="16dp"
    app:layout constraintEnd toStartOf="@+id/viewAge"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/viewHeight">
        android:layout width="match parent"
        android:layout height="match parent"
        android:orientation="vertical">
        <TextView
            android:layout_width="wrap content"
            android:layout_height="wrap_content"
android:text="@string/weight"
        <TextView
            android:textColor="@color/white"
            android:textSize="38sp"
            tools:text="60" />
        <androidx.appcompat.widget.LinearLayoutCompat</pre>
```





```
android:orientation="horizontal">
                 android:layout height="wrap content"
        </androidx.appcompat.widget.LinearLayoutCompat>
    </LinearLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView</pre>
    android:id="@+id/viewAge"
    android:layout width="0dp"
    android:layout height="150dp"
    android:layout marginTop="32dp"
    app:cardBackgroundColor="@color/background component"
    app:cardCornerRadius="16dp"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toEndOf="@+id/viewWeight"
    app:layout constraintTop toBottomOf="@+id/viewHeight">
    <androidx.appcompat.widget.LinearLayoutCompat</pre>
        android:layout width="match parent"
        <TextView
            android:layout width="wrap content"
            android:layout_height="wrap_content"
android:text="@string/age"
        <TextView
            android:id="@+id/tvAge"
            android:textColor="@color/white"
            android:textSize="38sp"
            tools:text="30" />
```





```
android:orientation="horizontal">
                   android:layout width="wrap content"
                   android:layout height="wrap content"
           </androidx.appcompat.widget.LinearLayoutCompat>
       </androidx.appcompat.widget.LinearLayoutCompat>
   </androidx.cardview.widget.CardView>
      android:id="@+id/btnCalculate"
      android:layout width="0dp"
      android:layout height="80dp"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintStart toStartOf="parent" />
(/androidx.constraintlayout.widget.ConstraintLayout>
```





ImcCalculatorActivity.kt

```
■ AE AndroidMaster ∨ Version control ∨
                                                       ☐ Pixel 4 API 28 ∨
                                                                       _ = app ∨ C ± 10 = : TG な = ☆ ☆ Q 🕸 🕲
\Box
            package com.aristidevs.androidmaster.imccalculator
ᅆ
                                                                                                                                               EP
            import ...
                                                                                                                                               ß
      18 ▷ class ImcCalculatorActivity : AppCompatActivity() {
               private var currentAge: Int = 30
               private var currentHeight: Int = 120
               private lateinit var rsHeight: RangeSlider
£3
               private lateinit var btnSubtractWeight: FloatingActionButton
T
               private lateinit var tvAge: TextView
ಋ
               private lateinit var btnCalculate: Button
                                                                                                                         ^ № (£ Ф)) 12:36 □
                                          Búsqueda en Windows
```

```
import android.content.Context
import android.content.Intent
import android.content.Intent
import android.os.Bundle
import android.os.Bundle
import android.widget.Button
import android.widget.Button
import android.widget.TextView
import android.xcardview.widget.CardView
import android.xcardview.widget.CardView
import androidx.core.content.ContextCompat
import com.aristidevs.androidmaster.R
import com.google.android.material.floatingactionbutton.FloatingActionButton
import org.w3c.dom.Text
import java.text.DecimalFormat

class ImcCalculatorActivity: AppCompatActivity() {

    private var isMaleSelected: Boolean = true
    private var isFemaleSelected: Boolean = false
    private var currentWeight: Int = 70
    private var currentAge: Int = 30
    private var currentAge: Int = 120

    private lateinit var viewMale: CardView
    private lateinit var risHeight: TextView
    private lateinit var sHeight: RangeSlider
    private lateinit var btnSubtractWeight: FloatingActionButton
    private lateinit var btnSubtractWeight: FloatingActionButton
    private lateinit var btnSubtractWiew
    private lateinit var btnSubtractWiew
    private lateinit var btnSubtractWiew
    private lateinit var btnSubtractWiew
    private lateinit var btnSubtractWeight: FloatingActionButton
    private lateinit var btnSubtractAge: FloatingActionButton
```



```
private lateinit var tvAge: TextView
    setContentView(R.layout.activity imc calculator)
    initComponents()
    initListeners()
    viewFemale = findViewById(R.id.viewFemale)
    btnSubtractWeight = findViewById(R.id.btnSubtractWeight)
   btnPlusWeight = findViewById(R.id.btnPlusWeight)
    tvWeight = findViewById(R.id.tvWeight)
   btnSubtractAge = findViewById(R.id.btnSubtractAge)
   btnPlusAge = findViewById(R.id.btnPlusAge)
    tvAge = findViewById(R.id.tvAge)
   btnCalculate = findViewById(R.id.btnCalculate)
private fun initListeners() {
    viewMale.setOnClickListener {
        changeGender()
        setGenderColor()
    viewFemale.setOnClickListener {
        changeGender()
        setGenderColor()
        currentWeight -= 1
    btnPlusAge.setOnClickListener {
        setAge()
    btnCalculate.setOnClickListener {
```





```
startActivity(intent)
    tvWeight.text = currentWeight.toString()
   isMaleSelected = !isMaleSelected
    isFemaleSelected = !isFemaleSelected
   viewMale.setCardBackgroundColor(getBackgroundColor(isMaleSelected))
   viewFemale.setCardBackgroundColor(getBackgroundColor(isFemaleSelected))
private fun getBackgroundColor(isSelectedComponent: Boolean): Int {
    val colorReference = if (isSelectedComponent) {
        R.color.background component selected
        R.color.background component
    return ContextCompat.getColor(this, colorReference)
    setAge()
```





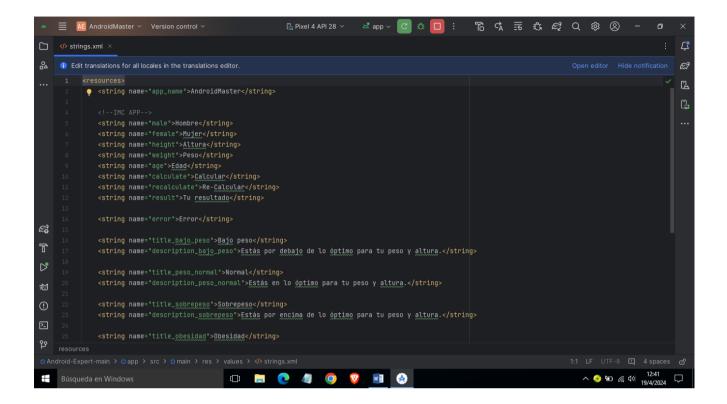
colors.xml

```
■ AE AndroidMaster ∨ Version control ∨
                                                                                      <?xml version="1.0" encoding="utf-8"?>
                                                                                                                                                                             E?
        ß
                                                                                                                                                                             G
                 <color name="white">#FFFFFFF</color>
                 <color name="background_component_selected">#FF111328</color>
<color name="background_app">#9E0B20</color>
<color name="background_button">#EB1555</color>
200
T
13
                 <color name="peso_normal">#4CAF50</color>
<color name="peso_sobrepeso">#FF5722</color>
                                                                                                                                                   へ 🚱 🖅 🦟 🗘 り) 12:38
                                                   🗅 📜 💽 🥒 🍥 🦁 🚮
    Búsqueda en Windows
```





strings.xml







themes.xml

```
■ AE AndroidMaster ∨ Version control ∨
                                                       \Gamma
   <sub>PA</sub>
                                                                                                               E)
                                                                                                               ß
                                                                                                               G.
             <!-- Secondary brand color. -->
<item name="colorSecondary">@color/teal_200</item>
£3
T
₩
2
                               ^ �� № //. Ф) 12:45 □
Búsqueda en Windows
```

