

# Projeto Programação para Dispositivos Móveis

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## Arquivo MainActivity

```
package com.example.aula2703
```

```
import android.os.Bundle
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.Button
import
android.widget.EditText
import
android.widget.TextView
import com.google.android.material.snackbar.Snackbar
import com.google.android.material.navigation.NavigationView
import androidx.navigation.findNavController
import
androidx.navigation.ui.AppBarConfiguration
import androidx.navigation.ui.navigateUp
import androidx.navigation.ui.setupActionBarWithNavController
import androidx.navigation.ui.setupWithNavController
import androidx.drawerlayout.widget.DrawerLayout
import androidx.appcompat.app.AppCompatActivity
import com.example.aula2703.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {

    private lateinit var appBarConfiguration: AppBarConfiguration
    private lateinit var binding: ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        setSupportActionBar(binding.appBarMain.toolbar)

        val drawerLayout: DrawerLayout = binding.drawerLayout
        val navView: NavigationView = binding.navView
        val navController =
findNavController(R.id.nav_host_fragment_content_main)
        appBarConfiguration = AppBarConfiguration(
            setOf(
                R.id.nav_home, R.id.nav_gallery, R.id.nav_contato,
                R.id.nav_computacao, R.id.nav_ads, R.id.nav_imc, R.id.nav_media
```

```
        ), drawerLayout  
    )  
  
    setupActionBarWithNavController(navController,  
    appBarConfiguration)
```

```

        navView.setupWithNavController(navController)
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        menuInflater.inflate(R.menu.main, menu)
        return true
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        return when (item.itemId) {
            R.id.action_sair ->{
                finishAffinity()
                System.exit(0)
                true
            }
            else -> super.onOptionsItemSelected(item)
        }
    }

    override fun onSupportNavigateUp(): Boolean {
        val navController =
findNavController(R.id.nav_host_fragment_content_main)
        return navController.navigateUp(appBarConfiguration) ||
super.onSupportNavigateUp()
    }

    fun calcularImc (view: View){
        val resultadoTextView: TextView =
findViewById(R.id.resultadoImc)
        val editPeso: EditText = findViewById(R.id.editPeso)

        val editAltura: EditText =

findViewById(R.id.editAltura) val buttonCalcular:

Button =

findViewById(R.id.buttonCalcularImc)

        buttonCalcular.setOnClickListener{
            val peso = editPeso.text.toString().replace(",",
"." ).toDoubleOrNull()
            val altura = editAltura.text.toString().replace(",",
"." ).toDoubleOrNull()

                válidos."

```

```
if(peso == null || altura ==  
    null || altura <= 0){  
    resultadoTextView.text =  
        "Por Favor, insira valores  
  
    return@setOnClickListener
```

```

    }
    val imc = peso / (altura * altura)
    val categoriaImc = when {
        imc < 18.5 -> "Abaixo do peso"
        imc in 18.5..24.9 -> "Peso
normal" imc in 25.0..29.9 ->
        "Sobrepeso"
        imc in 30.0..34.9 -> "Obesidade grau
1" imc in 35.0..39.9 -> "Obesidade
grau 2"
        else -> "Obesidade grau 3 (obesidade mórbida)"
    }

    resultadoTextView.text = "Seu IMC é: %.2f\nCategoria:
$categoriaImc".format(imc)

    }
}

fun calcularMedia (view: View){
    val editNota1: EditText =
    findViewById(R.id.editNota1) val editNota2: EditText
    = findViewById(R.id.editNota2) val editNota3:
    EditText = findViewById(R.id.editNota3) val
    resultadoMediaTextView: TextView =
    findViewById(R.id.resultadoMedia)
    val buttonCalcularMedia: Button =
    findViewById(R.id.buttonCalcularMedia)

    buttonCalcularMedia.setOnClickListener{
        val nota1 = editNota1.text.toString().toDouble()
        val nota2 =
        editNota2.text.toString().toDouble() val nota3
        = editNota3.text.toString().toDouble()
        val media = (nota1 + nota2 + nota3)/3

        if (media >= 6){

            resultadoMediaTextView.text = "Aprovado - Média:
%.2f".format(media)
        } else{
            resultadoMediaTextView.text = "Reprovado - Média:
%.2f".format(media)
        }
    }
}
}
}

```

## Arquivo AdsFragment

```
package com.example.aula2703.ui.ads
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import
androidx.lifecycle.ViewModelProvider
import
com.example.aula2703.databinding.FragmentAnaliseDevSisBinding

class AdsFragment : Fragment() {

    private var _binding: FragmentAnaliseDevSisBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val AdsViewModel=
            ViewModelProvider(this).get(AdsViewModel::class.java)

        _binding = FragmentAnaliseDevSisBinding.inflate(inflater,
container, false)
        val root: View = binding.root

        val textView: TextView = binding.textAds
        AdsViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}
```

## Arquivo AdsViewModel

```
package com.example.aula2703.ui.ads

import androidx.lifecycle.ViewModel
import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData

class AdsViewModel : ViewModel() {

    private val _text = MutableLiveData<String>().apply {
        value = "Este fragmento é Analise Desenvolvimento de
Sistemas"
    }
    val text: LiveData<String> = _text
}
```

## Arquivo ComputacaoFragment

```
package com.example.aula2703.ui.computacao
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import
androidx.lifecycle.ViewModelProvider
import
com.example.aula2703.databinding.FragmentCienciaComputacaoBinding

class ComputacaoFragment : Fragment() {

    private var _binding: FragmentCienciaComputacaoBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val ComputacaoViewModel =
```

```

ViewModelProvider(this).get(ComputacaoViewModel::class.java)

        _binding =
FragmentCienciaComputacaoBinding.inflate(inflater, container,
false)
        val root: View = binding.root

        val textView: TextView = binding.textComputacao
        ComputacaoViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

## Arquivo ComputacaoViewModel

```
package com.example.aula2703.ui.computacao
```

```

import androidx.lifecycle.ViewModel
import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData

class ComputacaoViewModel : ViewModel() {

    private val _text = MutableLiveData<String>().apply {
        value = "Este fragmento é Ciencia da Computação"
    }
    val text: LiveData<String> = _text
}

```

## Arquivo ContatoFragment

```
package com.example.aula2703.ui.contato
```

```

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView

```



```

import androidx.fragment.app.Fragment
import
androidx.lifecycle.ViewModelProvider
import com.example.aula2703.databinding.FragmentContatoBinding

class ContatoFragment : Fragment() {

    private var _binding: FragmentContatoBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val contatoViewModel =
ViewModelProvider(this).get(ContatoViewModel::class.java)

        _binding = FragmentContatoBinding.inflate(inflater,
container, false)
        val root: View = binding.root

        val textView: TextView = binding.textSlideshow
        contatoViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

## Arquivo ContatoViewModel

```

package com.example.aula2703.ui.contato

import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData
import androidx.lifecycle.ViewModel

class ContatoViewModel : ViewModel() {

```

```

private val _text = MutableLiveData<String>().apply {
    value = "Este fragmento é Contatos"
}
val text: LiveData<String> = _text
}

```

## Arquivo GalleryFragment

```
package com.example.aula2703.ui.gallery
```

```

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import
androidx.lifecycle.ViewModelProvider
import com.example.aula2703.databinding.FragmentGalleryBinding

class GalleryFragment : Fragment() {

    private var _binding: FragmentGalleryBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val galleryViewModel =
ViewModelProvider(this).get(GalleryViewModel::class.java)

        _binding = FragmentGalleryBinding.inflate(inflater,
container, false)
        val root: View = binding.root

        val textView: TextView = binding.textGallery
        galleryViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }
}

```

```
        _binding = null
    }
}
```

## Arquivo GalleryViewModel

```
package com.example.aula2703.ui.gallery
```

```
import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData
import androidx.lifecycle.ViewModel

class GalleryViewModel : ViewModel() {

    private val _text = MutableLiveData<String>().apply {
        value = "Este fragmento é Galeria"
    }
    val text: LiveData<String> = _text
}
```

## Arquivo HomeFragment

```
package com.example.aula2703.ui.home
```

```
import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import com.example.aula2703.databinding.FragmentHomeBinding

class HomeFragment : Fragment() {

    private var _binding: FragmentHomeBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {

```

```

        val homeViewModel =
            ViewModelProvider(this).get(HomeViewModel::class.java)

        _binding = FragmentHomeBinding.inflate(inflater, container,
false)
        val root: View = binding.root

        val textView: TextView = binding.textHome
        homeViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

## Arquivo HomeViewModel

```
package com.example.aula2703.ui.home
```

```

import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData
import androidx.lifecycle.ViewModel

class HomeViewModel : ViewModel() {

    private val _text = MutableLiveData<String>().apply {
        value = "Gabriel Bigarato - RGM: 32831048"
    }
    val text: LiveData<String> = _text
}

```

## Arquivo ImcFragment

```
package com.example.aula2703.ui.imc
```

```

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import
androidx.lifecycle.ViewModelProvider

```

```

import com.example.aula2703.databinding.FragmentImcBinding

class ImcFragment : Fragment() {

    private var _binding: FragmentImcBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val ImcViewModel =
            ViewModelProvider(this).get(ImcViewModel::class.java)

        _binding = FragmentImcBinding.inflate(inflater, container,
false)
        val root: View = binding.root

        val textView: TextView = binding.textImc
        ImcViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

```

}

```

## Arquivo ImcViewModel

```

package com.example.aula2703.ui.imc

import androidx.lifecycle.ViewModel
import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData

class ImcViewModel : ViewModel() {

```

```

private val _text = MutableLiveData<String>().apply {
    value = "Calculadora de IMC"
}
val text: LiveData<String> = _text
}

```

## Arquivo MediaFragment

```
package com.example.aula2703.ui.media
```

```

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import com.example.aula2703.databinding.FragmentMediaBinding

class MediaFragment : Fragment() {

    private var _binding: FragmentMediaBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val MediaViewModel =
            ViewModelProvider(this).get(MediaViewModel::class.java)

        _binding = FragmentMediaBinding.inflate(inflater,
container, false)
        val root: View = binding.root

        val textView: TextView = binding.textImc
        MediaViewModel.text.observe(viewLifecycleOwner) {
            textView.text = it
        }
        return root
    }
}

```

```

        super.onDestroyView()
        _binding = null
    }
}

```

## Arquivo MediaViewModel

```
package com.example.aula2703.ui.media
```

```

import androidx.lifecycle.LiveData
import androidx.lifecycle.MutableLiveData
import androidx.lifecycle.ViewModel

class MediaViewModel : ViewModel() {

    private val _text = MutableLiveData<String>().apply {
        value = "Calcular Média 3 Alunos"
    }
    val text: LiveData<String> = _text
}

```

## Layouts arquivos XML

### Arquivo activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
    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:id="@+id/drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:openDrawer="start">

    <include
        android:id="@+id/app_bar_main" layout="@layout/app_bar_main"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

    <com.google.android.material.navigation.NavigationView

```

```

        android:id="@+id/nav_view" android:layout_width="wrap_content"
            android:layout_height="match_parent"
            android:layout_gravity="start"
            android:fitsSystemWindows="true"
            app:headerLayout="@layout/nav_header_main"
            app:menu="@menu/activity_main_drawer" />
    </androidx.drawerlayout.widget.DrawerLayout>

```

## Arquivo app\_bar\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    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="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/Theme.Aula2703.AppBarOverlay">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/Theme.Aula2703.PopupOverlay"
            />

    </com.google.android.material.appbar.AppBarLayout>

    <include layout="@layout/content_main" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

## Arquivo content\_main.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:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
```

```

app:layout_behavior="@string/appbar_scrolling_view_behavior"
    tools:showIn="@layout/app_bar_main">

<fragment
android:id="@+id/nav_host_fragment_content_main"
    android:name="androidx.navigation.fragment.NavHostFragment"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:defaultNavHost="true"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:navGraph="@navigation/mobile_navigation" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo fragment\_analise\_dev\_sis.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:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.ads.AdsFragment">

<TextView
android:id="@+id/text_ads"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo fragment\_ciencia\_computacao.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:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.computacao.ComputacaoFragment">

<TextView
android:id="@+id/text_computacao"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo fragment\_contato.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:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.contato.ContatoFragment">

<TextView
android:id="@+id/text_slideshow"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo fragment\_gallery.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:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.gallery.GalleryFragment">

    <TextView
    android:id="@+id/text_gallery"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

## Arquivo fragment\_home.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:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.home.HomeFragment">

    <ImageView
    android:id="@+id/imageView2" android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/win_20250403_19_31_39_pro"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

```

app:layout_constraintVertical_bias="0.212" />

<TextView
    android:id="@+id/text_home"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginTop="64dp"
        android:layout_marginEnd="8dp"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo fragment\_imc.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:tools="http://schemas.android.com/tools"
    android:id="@+id/frameLayout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.imc.ImcFragment">

    <TextView
        android:id="@+id/textPeso"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Digite seu Peso em KG"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.134" />

    <EditText
        android:id="@+id/editPeso"
        android:layout_width="wrap_content"

```

```
    android:layout_height="wrap_content"
    android:hint="PESO"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.204" />
```

#### <EditText

```
    android:id="@+id/editAltura"
    android:layout_width="wrap_content"

    android:layout_height="wrap_content"
    android:hint="ALTURA"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.39" />
```

#### <TextView

```
    android:id="@+id/text_imc"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="32dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="82dp"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toTopOf="@+id/editPeso"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.034" />
```

#### <TextView

```
    android:id="@+id/textAltura"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="48dp"
    android:text="Digite sua Altura em METROS (Exemplo:1,75)"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
```



```

        app:layout_constraintHorizontal_bias="0.197"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.3" />

<Button
    android:id="@+id/buttonCalcularImc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="calcularImc"
    android:text="Calcular"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />

<TextView
    android:id="@+id/resultadoImc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="232dp"
    android:text="RESULTADO"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.422" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo fragment\_media.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:tools="http://schemas.android.com/tools"
    android:id="@+id/frameLayout2"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ui.media.MediaFragment">

    <TextView
        android:id="@+id/text_imc"
        android:layout_width="match_parent"

```

```
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="32dp"
    android:layout_marginEnd="8dp"
    android:layout_marginBottom="82dp"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toTopOf="@+id/editNota1"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.034" />
```

#### <TextView

```
    android:id="@+id/textNota1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Digite a primeira Nota"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.112" />
```

#### <EditText

```
    android:id="@+id/editNota1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:hint="Nota 1"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.166" />
```

#### <TextView

```
    android:id="@+id/textNota2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="48dp"
    android:text="Digite a segunda Nota"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.387"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
```



```
app:layout_constraintVertical_bias="0.251" />
```

```
<EditText
```

```
    android:id="@+id/editNota2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:hint="Nota 2"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.501"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.307" />
```

```
<TextView
```

```
    android:id="@+id/textNota3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="48dp"
    android:text="Digite a terceira Nota"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.387"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.384" />
```

```
<EditText
```

```
    android:id="@+id/editNota3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:hint="Nota 3"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.505"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.453" />
```

```
<Button
```

```
    android:id="@+id/buttonCalcularMedia"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="calcularMedia"
    android:text="Calcular"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.503"
```

```

app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.549" />

<TextView
android:id="@+id/resultadoMedia"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="232dp"
    android:text="RESULTADO"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.489" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## Arquivo nav\_header\_main.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"
    android:layout_width="match_parent"
    android:layout_height="@dimen/nav_header_height"
    android:background="?android:attr/actionModeSplitBackground"
    android:gravity="bottom"
    android:orientation="vertical"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:theme="@style/ThemeOverlay.AppCompat.Dark">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="78dp"
        android:contentDescription="@string/nav_header_desc"
        android:paddingTop="@dimen/nav_header_vertical_spacing"
        app:srcCompat="@drawable/logo_cruzeiro_do_sul_estrela_1024"
    />

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```

        android:paddingTop="@dimen/nav_header_vertical_spacing"
            android:text="@string/nav_header_title"

        android:textAppearance="@style/TextAppearance.AppCompat.Body1" />

<TextView
    android:id="@+id/textView" android:layout_width="wrap_content"
        android:layout_height="wrap_content"
            android:text="@string/nav_header_subtitle" />
</LinearLayout>

```

## Menu Arquivos XML

### Arquivo activity\_main\_drawer.xml

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    tools:showIn="navigation_view">

    <group android:checkableBehavior="single">
        <item
            android:id="@+id/nav_home"
            android:icon="@drawable/ic_menu_camera"
            android:title="@string/menu_home" />
        <item
            android:id="@+id/nav_gallery"
            android:icon="@drawable/ic_menu_gallery"
            android:title="@string/menu_gallery" />
        <item
            android:id="@+id/nav_contato"
            android:icon="@drawable/ic_menu_slideshow"
            android:title="@string/menu_contato" />
        <item
            android:id="@+id/nav_computacao"
            android:icon="@drawable/ic_menu_slideshow"
            android:title="@string/menu_computacao" />
        <item
            android:id="@+id/nav_ads"
            android:icon="@drawable/ic_menu_slideshow"
            android:title="@string/menu_ads" />
        <item
            android:id="@+id/nav_imc"
            android:icon="@drawable/ic_menu_slideshow"
            android:title="@string/menu_imc" />
        <item

```

```

        android:id="@+id/nav_media"
            android:icon="@drawable/ic_menu_slideshow"
            android:title="@string/menu_media" />

    </group>
</menu>

```

## Arquivo main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/action_sair" android:orderInCategory="100"
        android:title="@string/action_settings"
        app:showAsAction="never" />
    </item>
</menu>

```

## Navigation Arquivo XML

### Arquivo mobile\_navigation.xml

```

<?xml version="1.0" encoding="utf-8"?>
<navigation
    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:id="@+id/mobile_navigation"
    app:startDestination="@+id/nav_home">

    <fragment
        android:id="@+id/nav_home"
        android:name="com.example.aula2703.ui.home.HomeFragment"
        android:label="@string/menu_home"
        tools:layout="@layout/fragment_home" />

    <fragment
        android:id="@+id/nav_gallery"
        android:name="com.example.aula2703.ui.gallery.GalleryFragment"
        android:label="@string/menu_gallery"
        tools:layout="@layout/fragment_gallery" />

    <fragment
        android:id="@+id/nav_contato"

```

```

android:name="com.example.aula2703.ui.contato.ContatoFragment"
    android:label="@string/menu_contato"
    tools:layout="@layout/fragment_contato" />

<fragment
    android:id="@+id/nav_computacao"

android:name="com.example.aula2703.ui.computacao.ComputacaoFragment"
    android:label="@string/menu_computacao"
    tools:layout="@layout/fragment_ciencia_computacao"/>

<fragment
    android:id="@+id/nav_ads"
    android:name="com.example.aula2703.ui.ads.AdsFragment"
    android:label="@string/menu_ads"
    tools:layout="@layout/fragment_analise_dev_sis"/>

<fragment
    android:id="@+id/nav_imc"
    android:name="com.example.aula2703.ui.imc.ImcFragment"
    android:label="@string/menu_imc"
    tools:layout="@layout/fragment_imc"/>

<fragment
    android:id="@+id/nav_media"
    android:name="com.example.aula2703.ui.media.MediaFragment"
    android:label="@string/menu_media"
    tools:layout="@layout/fragment_media"/>

</navigation>

```

## Values Arquivos XML

### Arquivo colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
<color name="purple_200">#FFBB86FC</color>
<color name="purple_500">#FF6200EE</color>
<color name="purple_700">#FF3700B3</color>
<color name="teal_200">#FF03DAC5</color>
<color name="teal_700">#FF018786</color>
<color name="black">#FF000000</color>
<color name="white">#FFFFFFFF</color>
</resources>

```

## Arquivo strings.xml

```
<resources>
  <string name="app_name">aula2703</string>
  <string name="navigation_drawer_open">Open navigation
drawer</string>
  <string name="navigation_drawer_close">Close navigation
drawer</string>
  <string name="nav_header_title">Cruzeiro do Sul</string>
  <string name="nav_header_subtitle">Gabriel Bigarato</string>
  <string name="nav_header_desc">Navigation header</string>
  <string name="action_settings">Sair</string>

  <string name="menu_home">Quem Somos</string>
  <string name="menu_gallery">Galeria</string>
  <string name="menu_contato">Contato</string>
  <string name="menu_computacao">Ciencia da Computação</string>
  <string name="menu_ads">Analise e Desenvolvimento de
Sistemas</string>
  <string name="menu_imc">Calcular IMC</string>
  <string name="menu_media">Calcular Media 3 Alunos</string>

</resources>
```