

Modern Dashboard XML Design

We have created a modern material dashboard in android studio using XML design. In the below UI, there is 6 card view inside a linear layout in which one image view and one text view are present.

We have implemented on click listener only on one card view to show you as an example, further you can implement the on-click listener on another card view as well.

Step-by-Step Implementation

Step 1: Crear nuevo proyecto.

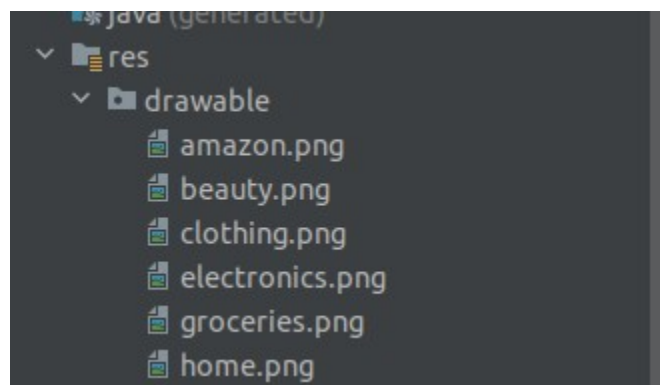
Step 2: agregar colores en colors.xml

```
<?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>
    <color name="lavender">#8692f7</color>
</resources>
```

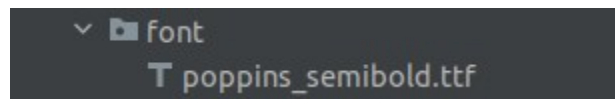
Step 3: Cambiar el tema de la aplicación en themes.xml

```
<style name="Base.Theme.DashboardApp" parent="Theme.Material3.DayNight.NoActionBar">
    <!-- Primary brand color. -->
    <item name="colorPrimary">@color/lavender</item>
    <item name="colorPrimaryVariant">@color/lavender</item>
    <item name="colorOnPrimary">@color/white</item>
    <!-- Secondary brand color. -->
    <item name="colorSecondary">@color/teal_200</item>
    <item name="colorSecondaryVariant">@color/teal_700</item>
    <item name="colorOnSecondary">@color/black</item>
    <!-- Status bar color. -->
    <item name="android:statusBarColor">?attr/colorPrimaryVariant</item>
    <!-- Customize your theme here. -->
</style>
```

Step 4: Agregar los recursos como imagens en el paquete res/drawable



Step 5: Agregar la familia de fuente para el diseño del tipo de letra que se usara, crear un Android resource directory en res y añadir el archivo poppins_semibold.ttf



Step 6: Agregar el diseño con los cardView para construir el dashboard en activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    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">
    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/constraintLayout"
        android:layout_marginTop="20dp">
        <TextView
            android:layout_width="0dp"
            android:layout_height="42dp"
            android:id="@+id/amazonName"
            android:text="Amazon"
            android:textSize="40sp"
            android:textColor="@color/lavender"
            android:layout_marginStart="18dp"
            android:layout_marginTop="40dp"
            android:fontFamily="@font/poppins_semibold"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintEnd_toStartOf="@+id/amazonImage"/>
        <TextView
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:id="@+id/amazonDesc"
            android:text="Shop from A to Z"
            android:textSize="14sp"
            android:layout_marginStart="18dp"
            android:textColor="@color/lavender"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/amazonName"
            app:layout_constraintEnd_toStartOf="@+id/amazonImage"/>
        <ImageView
            android:layout_width="0dp"
            android:layout_height="160dp"
            android:id="@+id/amazonImage"
            android:src="@drawable/amazon"
            app:layout_constraintTop_toTopOf="parent"
```

```

        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginEnd="16dp"
        app:layout_constraintStart_toEndOf="@id/amazonName"/>
<LinearLayout
    android:layout_width="0dp"
    android:layout_height="175dp"
    android:id="@+id/row1"
    android:orientation="horizontal"
    android:layout_marginTop="10dp"
    android:padding="10dp"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@id/amazonImage">
    <androidx.cardview.widget.CardView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:id="@+id/clothingCard"
        android:layout_margin="10dp"
        android:layout_weight="1"
        app:cardElevation="20dp"
        app:cardCornerRadius="20dp">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/clothingName"
                android:text="Clothing"
                android:textSize="20sp"
                android:textColor="@color/lavender"
                android:fontFamily="@font/poppins_semibold"
                android:layout_marginTop="10dp"
                android:layout_centerHorizontal="true"
                android:layout_below="@+id/clothingImage"/>
            <ImageView
                android:layout_width="70dp"
                android:layout_height="70dp"
                android:id="@+id/clothingImage"
                android:src="@drawable/clothing"
                android:layout_marginTop="15dp"
                android:layout_centerHorizontal="true"/>
            </RelativeLayout>
        </androidx.cardview.widget.CardView>
    <androidx.cardview.widget.CardView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_margin="10dp"
        android:layout_weight="1"
        app:cardElevation="20dp"
        app:cardCornerRadius="20dp">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"

```

```

        android:id="@+id/elecName"
        android:text="Electronics"
        android:textSize="20sp"
        android:textColor="@color/lavender"
        android:fontFamily="@font/poppins_semibold"
        android:layout_marginTop="10dp"
        android:layout_centerHorizontal="true"
        android:layout_below="@+id/elecImage"/>
    <ImageView
        android:layout_width="70dp"
        android:layout_height="70dp"
        android:id="@+id/elecImage"
        android:src="@drawable/electronics"
        android:layout_marginTop="15dp"
        android:layout_centerHorizontal="true"/>
    </RelativeLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>
<LinearLayout
    android:layout_width="0dp"
    android:layout_height="175dp"
    android:id="@+id/row2"
    android:orientation="horizontal"
    android:layout_marginTop="10dp"
    android:padding="10dp"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@id/row1">
    <androidx.cardview.widget.CardView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_margin="10dp"
        android:layout_weight="1"
        app:cardElevation="20dp"
        app:cardCornerRadius="20dp">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/homeName"
                android:text="Home"
                android:textSize="20sp"
                android:textColor="@color/lavender"
                android:fontFamily="@font/poppins_semibold"
                android:layout_marginTop="10dp"
                android:layout_centerHorizontal="true"
                android:layout_below="@+id/homeImage"/>
            <ImageView
                android:layout_width="70dp"
                android:layout_height="70dp"
                android:id="@+id/homeImage"
                android:src="@drawable/home"
                android:layout_marginTop="15dp"
                android:layout_centerHorizontal="true"/>
        </RelativeLayout>
    </androidx.cardview.widget.CardView>
</LinearLayout>

```

```

</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="0dp"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:layout_weight="1"
    app:cardElevation="20dp"
    app:cardCornerRadius="20dp">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/beautyName"
            android:text="Beauty"
            android:textSize="20sp"
            android:textColor="@color/lavender"
            android:fontFamily="@font/poppins_semibold"
            android:layout_marginTop="10dp"
            android:layout_centerHorizontal="true"
            android:layout_below="@+id/beautyImage"/>
        <ImageView
            android:layout_width="70dp"
            android:layout_height="70dp"
            android:id="@+id/beautyImage"
            android:src="@drawable/beauty"
            android:layout_marginTop="15dp"
            android:layout_centerHorizontal="true"/>
        </RelativeLayout>
    </androidx.cardview.widget.CardView>
</LinearLayout>
<LinearLayout
    android:layout_width="0dp"
    android:layout_height="175dp"
    android:id="@+id/row3"
    android:orientation="horizontal"
    android:layout_marginTop="10dp"
    android:padding="10dp"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@id/row2">
    <androidx.cardview.widget.CardView
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_margin="10dp"
        android:layout_weight="1"
        app:cardElevation="20dp"
        app:cardCornerRadius="20dp">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:id="@+id/pharmName"
                android:text="Pharmacy"

```

```

        android:textSize="20sp"
        android:textColor="@color/lavender"
        android:fontFamily="@font/poppins_semibold"
        android:layout_marginTop="10dp"
        android:layout_centerHorizontal="true"
        android:layout_below="@+id/pharmImage"/>
    <ImageView
        android:layout_width="70dp"
        android:layout_height="70dp"
        android:id="@+id/pharmImage"
        android:src="@drawable/pharmacy"
        android:layout_marginTop="15dp"
        android:layout_centerHorizontal="true"/>
    </RelativeLayout>
</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:layout_width="0dp"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:layout_weight="1"
    app:cardElevation="20dp"
    app:cardCornerRadius="20dp">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/grocName"
            android:text="Groceries"
            android:textSize="20sp"
            android:textColor="@color/lavender"
            android:fontFamily="@font/poppins_semibold"
            android:layout_marginTop="10dp"
            android:layout_centerHorizontal="true"
            android:layout_below="@+id/grocImage"/>
        <ImageView
            android:layout_width="70dp"
            android:layout_height="70dp"
            android:id="@+id/grocImage"
            android:src="@drawable/groceries"
            android:layout_marginTop="15dp"
            android:layout_centerHorizontal="true"/>
        </RelativeLayout>
    </androidx.cardview.widget.CardView>
</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>

```

Step 7: Crear una empty views activity para la opcion clothing y añadir el diseño en activity_clothing.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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"
android:orientation="vertical"
tools:context=".ClothingActivity">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/clothTitle"
    android:text="Clothing"
    android:textSize="36sp"
    android:layout_marginTop="40dp"
    android:fontFamily="@font/poppins_semibold"
    android:textColor="@color/lavender"
    android:layout_centerHorizontal="true"/>
<ImageView
    android:layout_width="500dp"
    android:layout_height="500dp"
    android:id="@+id/clothImage"
    android:layout_below="@id/clothTitle"
    android:src="@drawable/clothing"/>
</RelativeLayout>

```

Step 8: Codificar la logica para manejar el click en la opcion clothing MainActivity.java

```

import android.content.Intent
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import androidx.cardview.widget.CardView

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        val clothingCard = findViewById<CardView>(R.id.clothingCard)
        clothingCard.setOnClickListener {
            val intent = Intent(this@MainActivity, ClothingActivity::class.java)
            startActivity(intent)
        }
    }
}

```

Output

