Expt 2

MainActivity.java

package com.example.expt2;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import androidx.cardview.widget.CardView;

public class MainActivity extends AppCompatActivity implements View.OnClickListener

{

private CardView homeCard, settingsCard, profileCard, messagesCard;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

homeCard = findViewById(R.id.homeCard);

settingsCard = findViewById(R.id.settingsCard);

profileCard = findViewById(R.id.profileCard);

messagesCard = findViewById(R.id.messagesCard);

// Set click listeners

homeCard.setOnClickListener(this);

settingsCard.setOnClickListener(this);

profileCard.setOnClickListener(this);

messagesCard.setOnClickListener(this);

}

@Override

public void onClick(View v) {

int id = v.getId();

String message = "";

if (id == R.id.homeCard) {

message = "Home clicked";

} else if (id == R.id.settingsCard) {

message = "Settings clicked";

} else if (id == R.id.profileCard) {

message = "Profile clicked";

} else if (id == R.id.messagesCard) {

message = "Messages clicked";

}

Toast.makeText(this, message, Toast.LENGTH\_SHORT).show();

}

}

Activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>

<GridLayout

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="match\_parent"

android:padding="16dp"

android:columnCount="2"

android:rowCount="2">

<!-- Home Button -->

<androidx.cardview.widget.CardView

android:id="@+id/homeCard"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_margin="8dp"

app:cardCornerRadius="8dp"

app:cardElevation="4dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<com.google.android.material.imageview.ShapeableImageView

android:layout\_width="48dp"

android:layout\_height="48dp"

app:srcCompat="@drawable/baseline\_home\_24" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Home" />

</LinearLayout>

</androidx.cardview.widget.CardView>

<!-- Settings Button -->

<androidx.cardview.widget.CardView

android:id="@+id/settingsCard"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_margin="8dp"

app:cardCornerRadius="8dp"

app:cardElevation="4dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<com.google.android.material.imageview.ShapeableImageView

android:layout\_width="48dp"

android:layout\_height="48dp"

app:srcCompat="@drawable/baseline\_settings\_24" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Settings" />

</LinearLayout>

</androidx.cardview.widget.CardView>

<!-- Profile Button -->

<androidx.cardview.widget.CardView

android:id="@+id/profileCard"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_margin="8dp"

app:cardCornerRadius="8dp"

app:cardElevation="4dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<com.google.android.material.imageview.ShapeableImageView

android:layout\_width="48dp"

android:layout\_height="48dp"

app:srcCompat="@drawable/baseline\_person\_24" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Profile"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

<!-- Messages Button -->

<androidx.cardview.widget.CardView

android:id="@+id/messagesCard"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_margin="8dp"

app:cardCornerRadius="8dp"

app:cardElevation="4dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<com.google.android.material.imageview.ShapeableImageView

android:layout\_width="48dp"

android:layout\_height="48dp"

app:srcCompat="@drawable/baseline\_message\_24" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Messages"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

</GridLayout>

RightClickOn res/drawable -> New -> vector Assets -> select 4 icons for baseline\_settings\_24

baseline\_person\_24

baseline\_message\_24

baseline\_home\_24