Assignment-3 USN-01fm16mca053

1.Shapes

MainActivity.java

package com.example.shapes;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

import android.graphics.Bitmap;

import android.graphics.Canvas;

import android.graphics.Color;

import android.graphics.Paint;

import android.graphics.drawable.BitmapDrawable;

import android.support.v4.app.\*;

import android.os.Bundle; import android.widget.ImageView;

public class MainActivity extends Activity {

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Bitmap bg= Bitmap.createBitmap(720,1280,Bitmap.Config.ARGB\_8888);

ImageView I= (ImageView)findViewById(R.id.imageView1);

I.setBackgroundDrawable(new BitmapDrawable(bg));

Canvas canvas = new Canvas(bg);

Paint paint = new Paint();

paint.setColor(Color.BLUE);

paint.setTextSize(50);

canvas.drawText("Rectangle", 420, 150, paint);

canvas.drawRect(400, 200, 650, 700, paint);

paint.setColor(Color.RED);

canvas.drawText("Circle", 120, 150, paint);

canvas.drawCircle(200, 350, 150, paint);

paint.setColor(Color.GREEN);

canvas.drawText("Square", 120, 800, paint);

canvas.drawRect(50, 850, 350, 1150, paint);

paint.setColor(Color.BLACK);

canvas.drawText("Line", 480, 800, paint);

canvas.drawLine(520, 850, 520, 1150, paint);

}

ActivityMain.xml

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingBottom="@dimen/activity\_vertical\_margin"

android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context=".MainActivity" >

<ImageView

android:id="@+id/imageView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_alignParentTop="true"

android:layout\_marginLeft="132dp"

android:layout\_marginTop="78dp"

android:src="@drawable/ic\_launcher" />

</RelativeLayout>

2.Sensor

MainActivity.java

package com.example.sensor1;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

import android.app.Activity;

import android.os.Bundle;

import android.widget.TextView;

import android.widget.Toast;

import android.hardware.SensorManager;

import android.hardware.SensorEventListener;

import android.hardware.SensorEvent;

import android.hardware.Sensor;

import java.util.List;

public class MainActivity extends Activity {

SensorManager sm = null;

TextView textView1 = null;

List list;

SensorEventListener sel = new SensorEventListener(){

public void onAccuracyChanged(Sensor sensor, int accuracy) {}

public void onSensorChanged(SensorEvent event) {

float[] values = event.values;

textView1.setText("x: "+values[0]+"\ny: "+values[1]+"\nz: "+values[2]);

}

};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

/\* Get a SensorManager instance \*/

sm = (SensorManager)getSystemService(SENSOR\_SERVICE);

textView1 = (TextView)findViewById(R.id.textView1);

list = sm.getSensorList(Sensor.TYPE\_ACCELEROMETER);

if(list.size()>0){

sm.registerListener(sel, (Sensor) list.get(0), SensorManager.SENSOR\_DELAY\_NORMAL);

}else{

Toast.makeText(getBaseContext(), "Error: No Accelerometer.", Toast.LENGTH\_LONG).show();

}

}

@Override

protected void onStop() {

if(list.size()>0){

sm.unregisterListener(sel);

}

super.onStop();

}

}

MainActivity.xml

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android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context=".MainActivity" >

<TextView

android:id="@+id/textView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_alignParentTop="true"

android:layout\_marginLeft="86dp"

android:layout\_marginTop="103dp"

android:text="TextView1" />

</RelativeLayout>

AndroidManifest.xml

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.sensor1"

android:versionCode="1"

android:versionName="1.0" >

<uses-sdk

android:minSdkVersion="8"

android:targetSdkVersion="17" />

<application

android:allowBackup="true"

android:icon="@drawable/ic\_launcher"

android:label="@string/app\_name"

android:theme="@style/AppTheme" >

<activity

android:name="com.example.sensor1.MainActivity"

android:label="@string/app\_name" >

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

3.Animation

MainActivity.java

package com.example.animation;

import android.os.Bundle;

import android.animation.AnimatorSet;

import android.animation.ObjectAnimator;

import android.annotation.SuppressLint;

import android.app.Activity;

import android.view.Menu;

import android.view.View;

import android.view.animation.Animation;

import android.widget.ImageView;

import android.support.v4.app.\*;

@SuppressLint("NewApi") public class MainActivity extends Activity {

private ImageView imageView;

private ImageView imageView1;

private ImageView imageView4;

private ImageView googleImage;

private ImageView thread;

long animationDuration=1000;//miliseconds

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

imageView=(ImageView)findViewById(R.id.imageView1);

imageView1=(ImageView)findViewById(R.id.imageView2);

imageView4=(ImageView)findViewById(R.id.imageView3);

googleImage=(ImageView)findViewById(R.id.imageView4);

thread=(ImageView)findViewById(R.id.imageView5);

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.main, menu);

return true;

}

public void handleAnimation(View view){

ObjectAnimator animatorX=ObjectAnimator.ofFloat(imageView,"x",220f);

animatorX.setDuration(animationDuration);

ObjectAnimator animatorY=ObjectAnimator.ofFloat(imageView, "y", 300f);

animatorY.setDuration(animationDuration);

ObjectAnimator alphaAnimation=ObjectAnimator.ofFloat(imageView4,View.ALPHA,1.0f,0.0f);

alphaAnimation.setDuration(animationDuration);

ObjectAnimator rotateAnimation=ObjectAnimator.ofFloat(imageView,"rotation",0f,360f);

rotateAnimation.setDuration(animationDuration);

AnimatorSet animatorSet=new AnimatorSet();

animatorSet.playTogether(animatorX,animatorY);

animatorSet.start();

}

public void handleAnimation2(View view){

ObjectAnimator animatorX1=ObjectAnimator.ofFloat(imageView,"x",220f);

animatorX1.setDuration(animationDuration);

ObjectAnimator animatorY1=ObjectAnimator.ofFloat(imageView, "y", 300f);

animatorY1.setDuration(animationDuration);

ObjectAnimator animatorX=ObjectAnimator.ofFloat(imageView1,"x",220f);

animatorX.setDuration(animationDuration);

ObjectAnimator animatorY=ObjectAnimator.ofFloat(imageView1, "y", 300f);

animatorY.setDuration(animationDuration);

ObjectAnimator alphaAnimation=ObjectAnimator.ofFloat(googleImage,View.ALPHA,1.0f,0.0f);

alphaAnimation.setDuration(animationDuration);

ObjectAnimator rotateAnimation=ObjectAnimator.ofFloat(imageView4,"rotation",0f,360f);

rotateAnimation.setDuration(animationDuration);

ObjectAnimator animatorY2=ObjectAnimator.ofFloat(thread, "y",200f);

AnimatorSet animatorSet=new AnimatorSet();

animatorSet.playTogether(animatorX,rotateAnimation);

animatorSet.playTogether(animatorX,alphaAnimation);

animatorSet.playTogether(animatorX1,animatorY1);

animatorSet.playTogether(animatorY2);

animatorSet.start();

}

}

ActivityMain.xml

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android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context=".MainActivity" >

<ImageView

android:id="@+id/imageView1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_alignParentTop="true"

android:src="@drawable/image3" />

<ImageView

android:id="@+id/imageView4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignRight="@+id/button1"

android:layout\_alignTop="@+id/imageView1"

android:src="@drawable/google" />

<ImageView

android:id="@+id/imageView3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_below="@+id/imageView4"

android:src="@drawable/image2" />

<ImageView

android:id="@+id/imageView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignLeft="@+id/button1"

android:layout\_below="@+id/button1"

android:layout\_marginTop="32dp"

android:src="@drawable/ic\_launcher" />

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_below="@+id/imageView3"

android:layout\_marginTop="70dp"

android:onClick="handleAnimation2"

android:text="Animate Images" />

<ImageView

android:id="@+id/imageView5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentRight="true"

android:layout\_alignTop="@+id/imageView4"

android:src="@drawable/thread" />

</RelativeLayout>

Location

MainActivity.java

package com.example.map;

import android.os.Bundle;

import android.app.Activity;

import android.content.Intent;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

public class MainActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button b1 = (Button) findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View arg0) {

Intent intent = new Intent(MainActivity.this,SecondActivity.class);

startActivity(intent);

}

});

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.main, menu);

return true;

}

}

SecondActivity.java

package com.example.map;

import android.app.Activity;

import android.os.Bundle;

import android.webkit.WebView;

import android.webkit.WebViewClient;

public class SecondActivity extends Activity{

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.web\_activity);

WebView webView = (WebView) findViewById(R.id.webview1);

webView.setWebViewClient(new WebViewClient());

webView.getSettings().setJavaScriptEnabled(true);

webView.loadUrl("http://www.google.com/maps");

}

}

ActivityMain.xml

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context=".MainActivity" >

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerHorizontal="true"

android:layout\_centerVertical="true"

android:text="Show location" />

</RelativeLayout>

Media

MainActivity.java

package com.example.media;

import com.example.media.R;

import android.media.MediaPlayer;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

public class MainActivity extends Activity implements View.OnClickListener{

Button play,pause,stop;

MediaPlayer mediaPlayer;

int pauseCurrentPosition;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

play=(Button)findViewById(R.id.button1);

stop=(Button)findViewById(R.id.button3);

pause=(Button)findViewById(R.id.button2);

play.setOnClickListener(this);

pause.setOnClickListener(this);

stop.setOnClickListener(this);

}

@Override

public void onClick(View view) {

switch(view.getId()){

case R.id.button1:

if(mediaPlayer==null){

mediaPlayer=MediaPlayer.create(getApplicationContext(), R.raw.boond);

mediaPlayer.start();}

else if(!mediaPlayer.isPlaying()){

mediaPlayer.seekTo(pauseCurrentPosition);

mediaPlayer.start();

}

break;

case R.id.button2:

if(mediaPlayer!=null){

mediaPlayer.pause();

pauseCurrentPosition=mediaPlayer.getCurrentPosition();}

break;

case R.id.button3:

if(mediaPlayer!=null){

mediaPlayer.stop();

mediaPlayer=null;}

break;

}

}

}

ActivityMain.xml

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

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android:layout\_height="match\_parent"

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android:paddingLeft="@dimen/activity\_horizontal\_margin"

android:paddingRight="@dimen/activity\_horizontal\_margin"

android:paddingTop="@dimen/activity\_vertical\_margin"

tools:context=".MainActivity" >

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_alignParentTop="true"

android:layout\_marginLeft="58dp"

android:layout\_marginTop="55dp"

android:text="Play" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignLeft="@+id/button1"

android:layout\_centerVertical="true"

android:text="Pause" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignLeft="@+id/button2"

android:layout\_alignParentBottom="true"

android:layout\_marginBottom="71dp"

android:layout\_marginLeft="14dp"

android:text="Stop" />

</RelativeLayout>