

插入 TextView

- ID 為 textView1

插入 button

- Text 為 Open camera
- On Click 為 btn_test1

插入 button

- Text 為 close

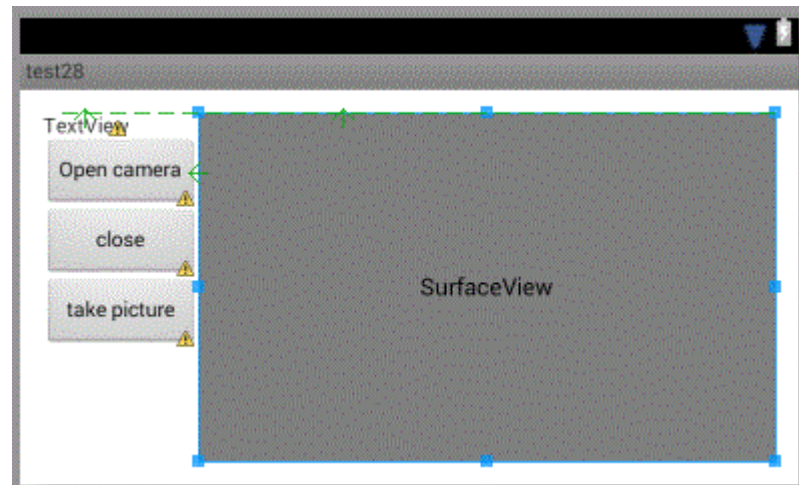
On Click 為 btn_test2

插入 button

- Text 為 take picture
- On Click 為 btn_test2

插入 SurfaceView

- ID 為 surfaceView1



需要設權限 AndroidManifest.xml

```
<uses-permission android:name="android.permission.CAMERA"/>
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
```

全域變數

```
SurfaceHolder sfvholder;
Camera cam1;
SurfaceView sfv1;
```

OnCreate

```
//setRequestedOrientation(0);
sfv1=(SurfaceView)findViewById(R.id.surfaceView1);
sfvholder=sfv1.getHolder();
sfvholder.setType(sfvholder.SURFACE_TYPE_PUSH_BUFFERS);
```

```
//sfvhoder.addCallback( this);
```

MainActivity.java 加入以下 code,按 ctrl+shift+o 自動補 import

```
public void btn_test1(View v) {
    Camera.Parameters cam_param;
    TextView tv1;
    tv1=(TextView)this.findViewById(R.id.textView1);
    String st1;
    // TODO Auto-generated method stub

    try{
        cam1 = Camera.open();
        cam_param=cam1.getParameters();
//        cam_param.setPreviewSize(320, 240);

        List psizelist = cam_param.getSupportedPictureSizes();
        if (null != psizelist && 0 < psizelist.size()) {
            int heights[] = new int[psizelist.size()];
            Map<Integer, Integer> map = new HashMap<Integer, Integer>();
            st1=Integer.toString( psizelist.size());
            for (int i = 0; i < psizelist.size(); i++) {
                Size size = (Size) psizelist.get(i);
                int sizehieght = size.height;
                int sizewidth = size.width;
                heights[i] = sizehieght;
                map.put(sizehieght, sizewidth);
                st1=st1+' '+Integer.toString(size.width)+'x'+Integer.toString(size.height);
            }
            Arrays.sort(heights);// set mini size
            cam_param.setPictureSize(map.get(heights[0]),heights[0]);
            //st1=Integer.toString(heights[0])+'x'+Integer.toString(map.get(heights[0]));
            tv1.setText(st1);
        }
//cam1.setDisplayOrientation(90);

        cam1.setParameters(cam_param);
        cam1.setPreviewDisplay(sfvhoder);
    }
}
```

```
        cam1.startPreview();
    }catch (Exception e)
    {
        Toast.makeText(this, "preview fail", 1000);
        e.printStackTrace();
    }
}
public void btn_test2(View v) {
    cam1.stopPreview();
    cam1.release();

}

PictureCallback jpeg =new PictureCallback(){

public void onPictureTaken(byte[] data, Camera camera) {

    Bitmap bmp=BitmapFactory.decodeByteArray(data, 0, data.length);
    FileOutputStream fop;
    try {
        fop=new FileOutputStream("/sdcard/test.jpg");
        bmp.compress(Bitmap.CompressFormat.JPEG, 100, fop);
        fop.close();
        System.out.println("take picture ok");
    } catch (FileNotFoundException e) {
        e.printStackTrace();
        System.out.println("FileNotFoundException");
    } catch (IOException e) {
        e.printStackTrace();
        System.out.println("IOException");
    }
    camera.startPreview();
}
};
public void btn_test3(View v) {
```

```
cam1.takePicture(null, null, jpeg);
```

```
}
```