Service

1. 請參考投影片內容，建立以下的Android應用程式

並請將1.**建立過程**; 2.程式**執行結果**截圖; 2.程式**原始檔 copy&paste**置入作業中

1. 請參考範例
   1. 使用兩種方式建立Broadcast機制
      1. 第一種為xml裡註冊,receiver收到後顯示”收到來自MCU ITE的訊息了 ”
      2. 第二種為程式內動態註冊,receiver收到後顯示”收到來自MCU ITE的訊息了 ”

參考範例46，只有改文字，所以就不po程式了。

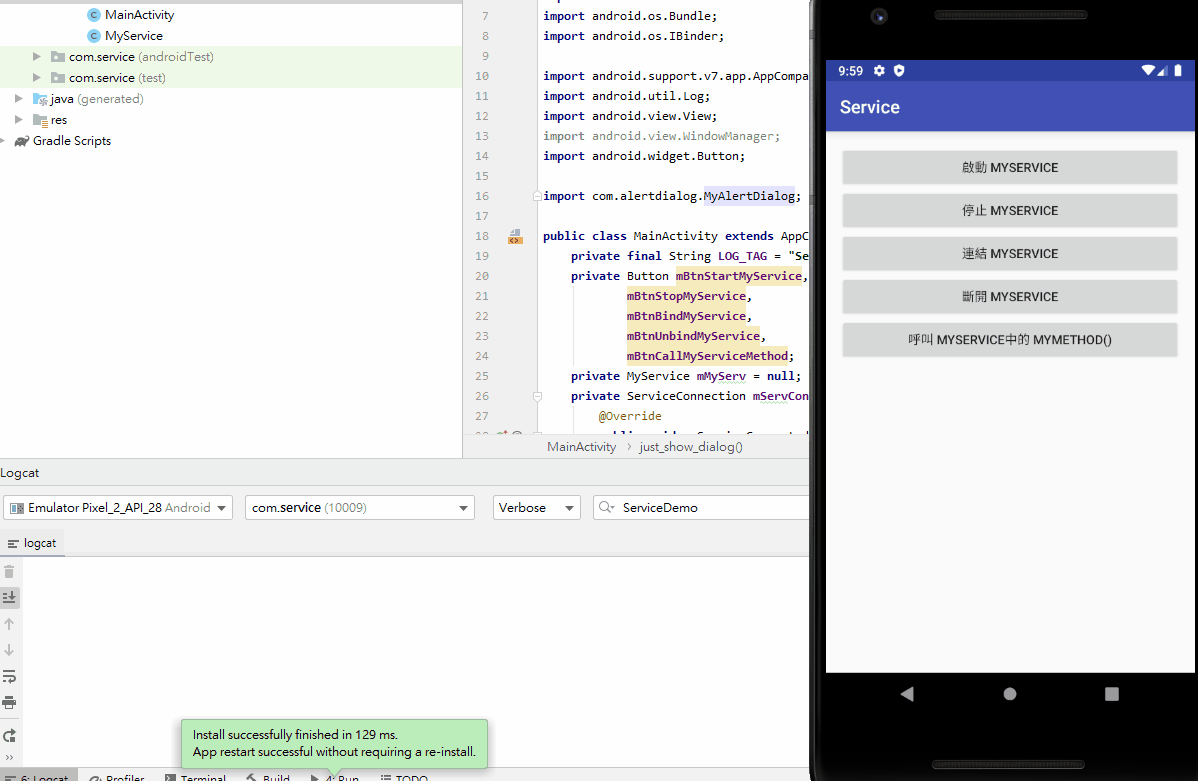
一張含有 螢幕擷取畫面, 監視器, 手機, 行動電話 的圖片

自動產生的描述

1. 請參考範例
   1. 建立兩種形式的Service
      * startService -> 顯示AlertDialog, 使用者點選確定後消失
      * bindService -> 由主程式呼叫Service裡的method, 該method為顯示Toast訊息

參考範例47

gif限另存為”以篩選網頁版’為html檔觀看



MainActivity.java

**package** com.service;  
  
**import** android.content.ComponentName;  
**import** android.content.DialogInterface;  
**import** android.content.Intent;  
**import** android.content.ServiceConnection;  
**import** android.os.Bundle;  
**import** android.os.IBinder;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.util.Log;  
**import** android.view.View;  
**import** android.view.WindowManager;  
**import** android.widget.Button;  
  
**import** com.alertdialog.MyAlertDialog;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private final** String **LOG\_TAG** = **"ServiceDemo"**;  
 **private** Button **mBtnStartMyService**,  
 **mBtnStopMyService**,  
 **mBtnBindMyService**,  
 **mBtnUnbindMyService**,  
 **mBtnCallMyServiceMethod**;  
 **private** MyService **mMyServ** = **null**;  
 **private** ServiceConnection **mServConn** = **new** ServiceConnection() {  
 @Override  
 **public void** onServiceConnected(ComponentName componentName, IBinder iBinder) {  
 Log.*d*(**LOG\_TAG**, **"onServiceConnected() "** + componentName.getClassName());  
 **mMyServ** = ((MyService.LocalBinder)iBinder).getService();  
 }  
 @Override  
 **public void** onServiceDisconnected(ComponentName componentName) {  
 Log.*d*(**LOG\_TAG**, **"onServiceDisconnected()"** + componentName.getClassName());  
 }  
 };  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **mBtnStartMyService** = (Button) findViewById(R.id.***btnStartMyService***);  
 **mBtnStopMyService** = (Button) findViewById(R.id.***btnStopMyService***);  
 **mBtnBindMyService** = (Button) findViewById(R.id.***btnBindMyService***);  
 **mBtnUnbindMyService** = (Button) findViewById(R.id.***btnUnbindMyService***);  
 **mBtnCallMyServiceMethod** = (Button) findViewById(R.id.***btnCallMyServiceMethod***);  
  
 **mBtnStartMyService**.setOnClickListener(**btnStartMyServiceOnClick**);  
 **mBtnStopMyService**.setOnClickListener(**btnStopMyServiceOnClick**);  
 **mBtnBindMyService**.setOnClickListener(**btnBindMyServiceOnClick**);  
 **mBtnUnbindMyService**.setOnClickListener(**btnUnbindMyServiceOnClick**);  
 **mBtnCallMyServiceMethod**.setOnClickListener(**btnCallMyServiceMethodOnClick**);  
 }  
 **private** View.OnClickListener **btnStartMyServiceOnClick** = **new** View.OnClickListener() {  
 **public void** onClick(View v) {  
 **mMyServ** = **null**;  
 Intent it = **new** Intent(MainActivity.**this**, MyService.**class**);  
 startService(it);  
 }  
 };  
 **private** View.OnClickListener **btnStopMyServiceOnClick** = **new** View.OnClickListener() {  
 **public void** onClick(View v) {  
 **mMyServ** = **null**;  
 Intent it = **new** Intent(MainActivity.**this**, MyService.**class**);  
 stopService(it);  
 }  
 };  
 **private** View.OnClickListener **btnBindMyServiceOnClick** = **new** View.OnClickListener() {  
 **public void** onClick(View v) {  
 **mMyServ** = **null**;  
 Intent it = **new** Intent(MainActivity.**this**, MyService.**class**);  
 bindService(it, **mServConn**, ***BIND\_AUTO\_CREATE***);  
 just\_show\_dialog();  
 }  
 };  
 **private** View.OnClickListener **btnUnbindMyServiceOnClick** = **new** View.OnClickListener() {  
 **public void** onClick(View v) {  
 **mMyServ** = **null**;  
 unbindService(**mServConn**);  
 }  
 };  
 **private** View.OnClickListener **btnCallMyServiceMethodOnClick** = **new** View.OnClickListener() {  
 **public void** onClick(View v) {  
 **if** (**mMyServ** != **null**)  
 **mMyServ**.myMethod();  
 }  
 };  
 **public void** just\_show\_dialog()  
 {  
 *// mTxtResult.setText("");* MyAlertDialog myAltDlg = **new** MyAlertDialog(MainActivity.**this**);  
 myAltDlg.setTitle(**"AlertDialog"**);  
 myAltDlg.setMessage(**"AlertDialog用法是要建立一個繼承它的class。"**);  
 myAltDlg.setIcon(android.R.drawable.***ic\_dialog\_info***);  
 myAltDlg.setCancelable(**false**);  
 myAltDlg.setButton(DialogInterface.***BUTTON\_POSITIVE***, **"是"**, **altDlgPositiveBtnOnClk**);  
 myAltDlg.setButton(DialogInterface.***BUTTON\_NEGATIVE***, **"否"**, **altDlgNegativeBtnOnClk**);  
 myAltDlg.setButton(DialogInterface.***BUTTON\_NEUTRAL***, **"取消"**, **altDlgNeutralBtnOnClk**);  
 *// myAltDlg.getWindow().setType((WindowManager.LayoutParams.TYPE\_SYSTEM\_ALERT));* myAltDlg.show();  
 }  
 **private** DialogInterface.OnClickListener **altDlgPositiveBtnOnClk** = **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 *// mTxtResult.setText("你啟動了AlertDialog而且按下了\"是\"按鈕");* }  
 };  
 **private** DialogInterface.OnClickListener **altDlgNegativeBtnOnClk** = **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 *//mTxtResult.setText("你啟動了AlertDialog而且按下了\"否\"按鈕");* }  
 };  
 **private** DialogInterface.OnClickListener **altDlgNeutralBtnOnClk** = **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 *// mTxtResult.setText("你啟動了AlertDialog而且按下了\"取消\"按鈕");* }  
 };  
}

MyService.java

**package** com.service;  
**import** android.app.Service;  
**import** android.content.Intent;  
**import** android.os.Binder;  
**import** android.os.Handler;  
**import** android.os.IBinder;  
**import** android.os.Looper;  
**import** android.util.Log;  
**import** android.widget.Toast;  
**public class** MyService **extends** Service {  
 **private final** String **LOG\_TAG** = **"ServiceDemo"**;  
 **private** Handler **mhandler**;  
 **public class** LocalBinder **extends** Binder {  
 MyService getService() {  
 **return** MyService.**this**;  
 }  
 }  
 **private** LocalBinder **mLocBin** = **new** LocalBinder();  
 **public void** myMethod() {  
 Log.*d*(**LOG\_TAG**, **"myMethod()"**);  
 **mhandler**=**new** Handler(Looper.*getMainLooper*());  
 **mhandler**.post(**new** Runnable(){  
 **public void** run(){  
 Toast.*makeText*(getApplicationContext(), **"Service is created!"**, Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 }  
 **public** MyService() {  
 }  
 @Override  
 **public void** onCreate() {  
 Log.*d*(**LOG\_TAG**, **"onCreate()"**);  
 **super**.onCreate();  
 }  
 @Override  
 **public void** onDestroy() {  
 Log.*d*(**LOG\_TAG**, **"onDestroy()"**);  
 **super**.onDestroy();  
 }  
 @Override  
 **public int** onStartCommand(Intent intent, **int** flags, **int** startId) {  
 Log.*d*(**LOG\_TAG**, **"onStartCommand()"**);  
 **return super**.onStartCommand(intent, flags, startId);  
 }  
 @Override  
 **public boolean** onUnbind(Intent intent) {  
 Log.*d*(**LOG\_TAG**, **"onUnbind()"**);  
 **return super**.onUnbind(intent);  
 }  
 @Override  
 **public** IBinder onBind(Intent intent) {  
 Log.*d*(**LOG\_TAG**, **"onBind()"**);  
 **return mLocBin**;  
 }  
}

MyAlertDialog

**package** com.alertdialog;  
  
**import** android.content.Context;  
**import** android.support.v7.app.AlertDialog;  
  
**public class** MyAlertDialog **extends** AlertDialog {  
 **public** MyAlertDialog(Context context) {  
 **super**(context);  
 }  
}