MICROOH 麦可网

Android-从程序员到架构师之路

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F07_c

观摩：Android+i-Jetty网页的设计(c)

By 高煥堂

5、实际案例分享

案例情境说明

- 这是2012年9月21日于秦皇岛市举行的<智能电视软硬整合产业联盟会议>>开幕时，副市长以他自己的手机上网访问会议厅中Android TV里的i-Jetty网页，再透过Android App发出Zigbee信号，打开会议厅的主灯和电视墙。

會議廳主燈

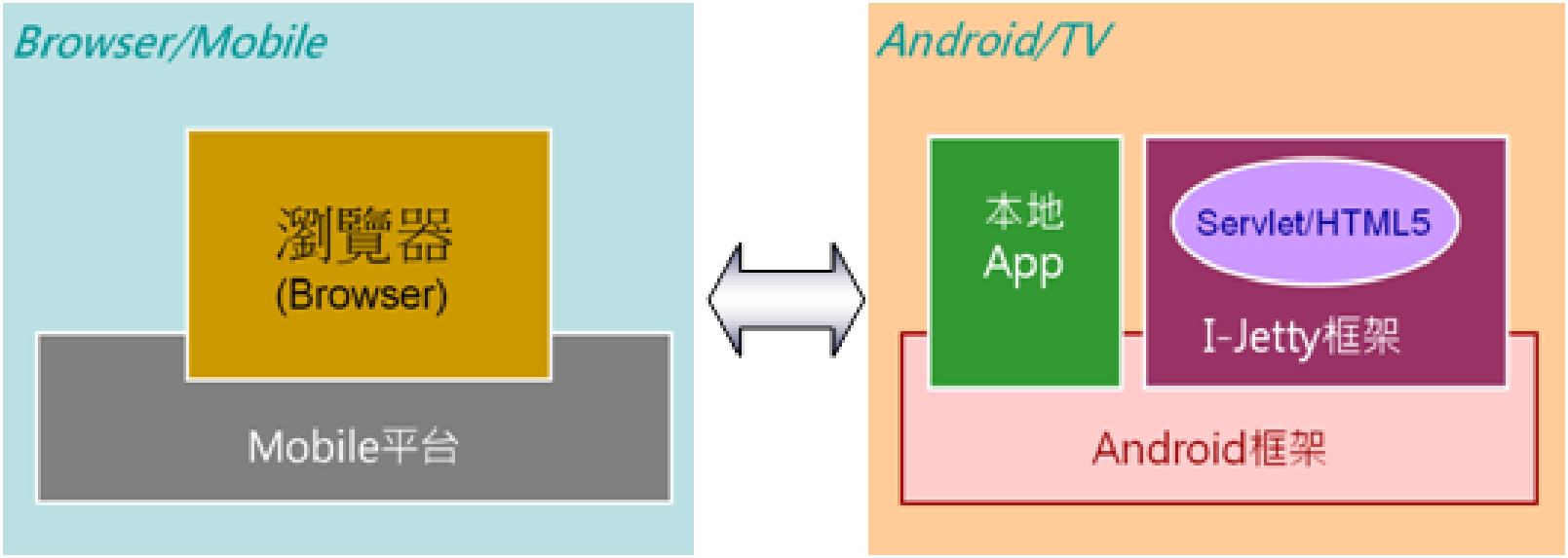
iPhone等
智能終端

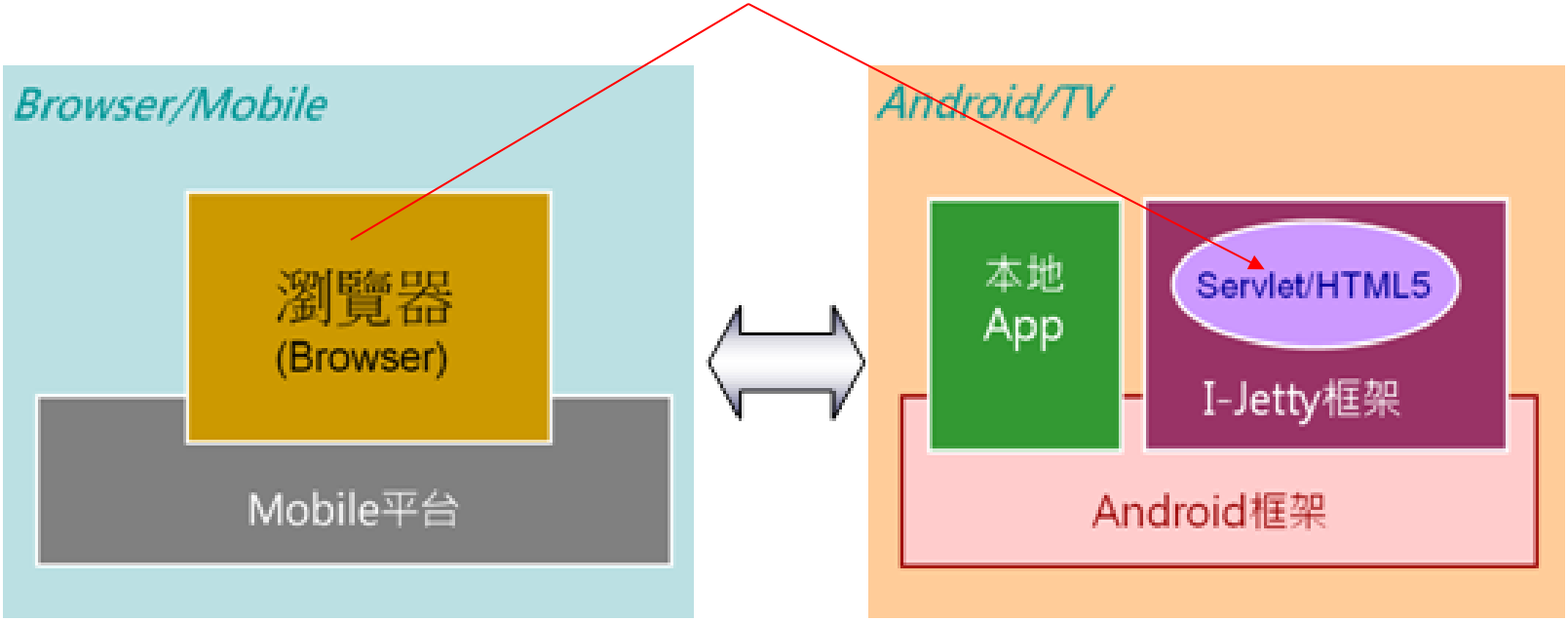
互聯網

Android TV
雲

- 请观看会议开幕的<开启主灯>视频

- 即使从数千公里外，也一样能透过手机上网，打开会议厅的主灯和电视墙。


Browser/Mobile
瀏覽器
(Browser)
Mobile平台
Android/TV
本地
App
Servlet/HTML5
I-Jetty框架
Android框架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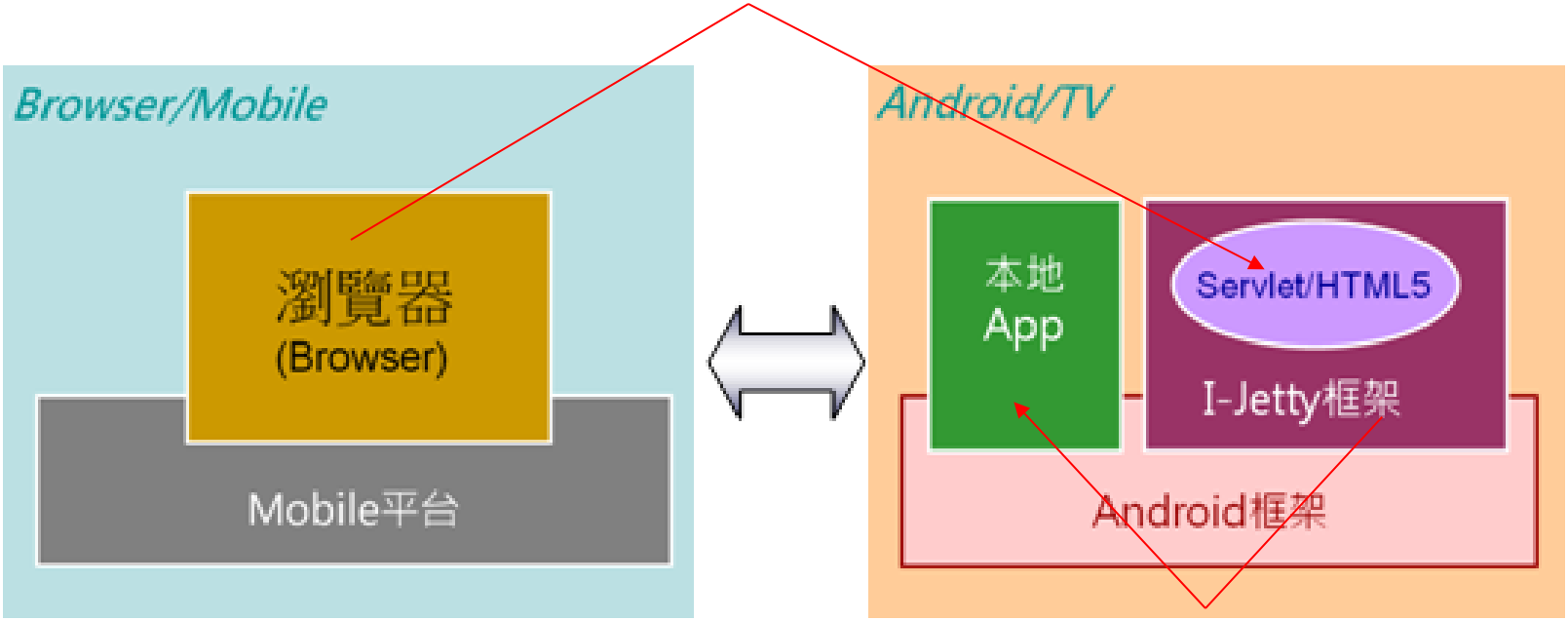
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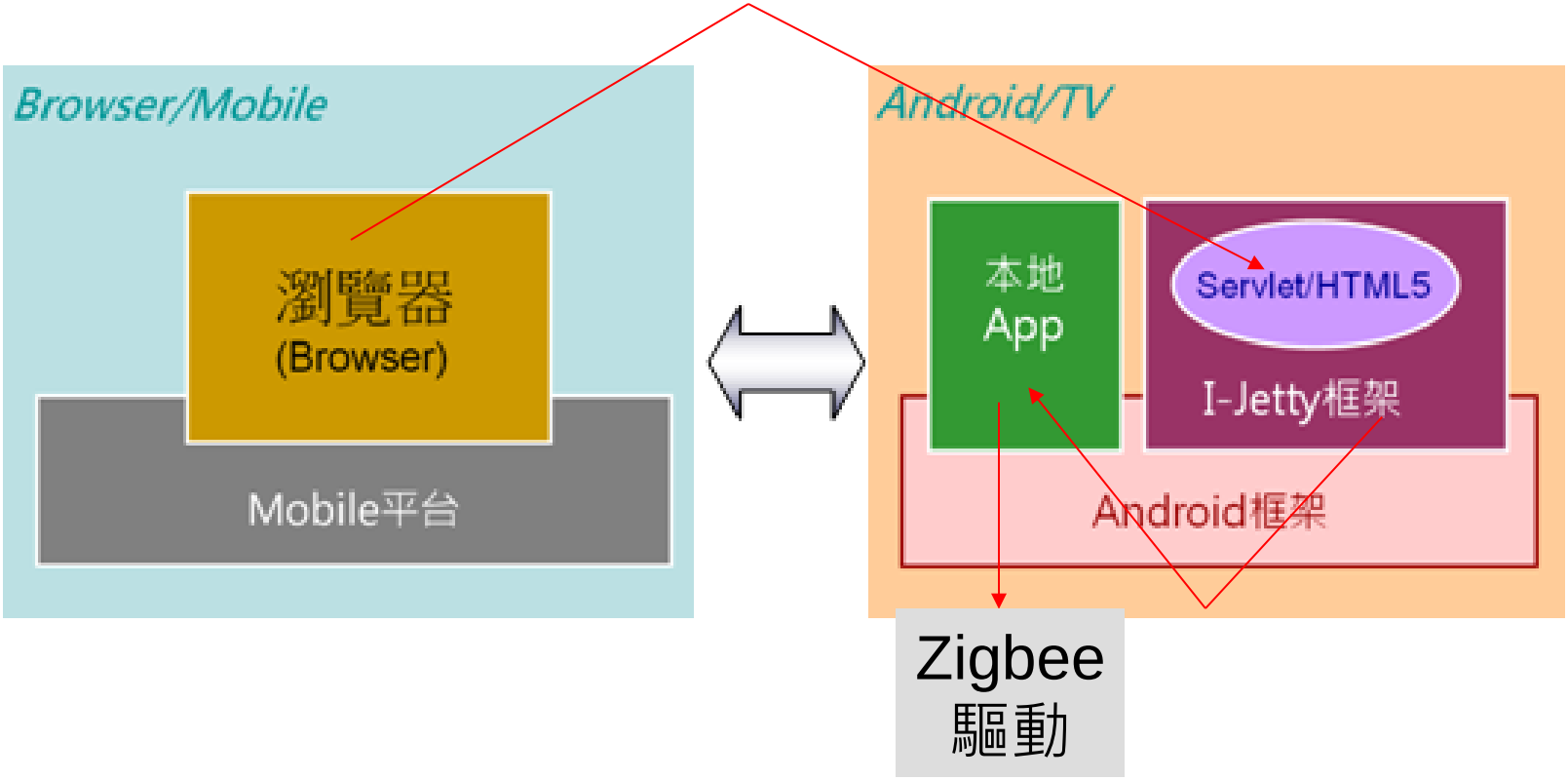
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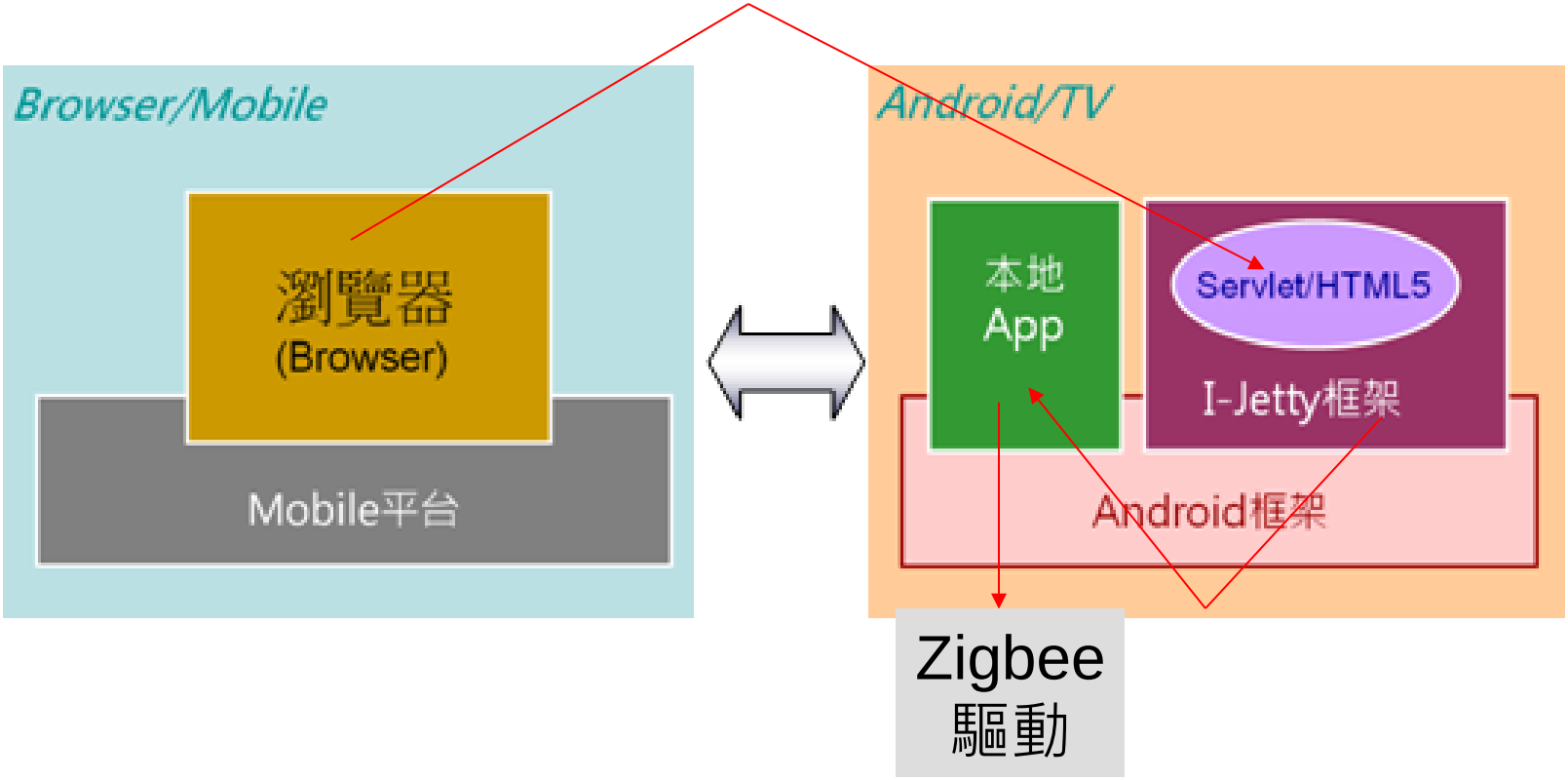
Zigbee
驅動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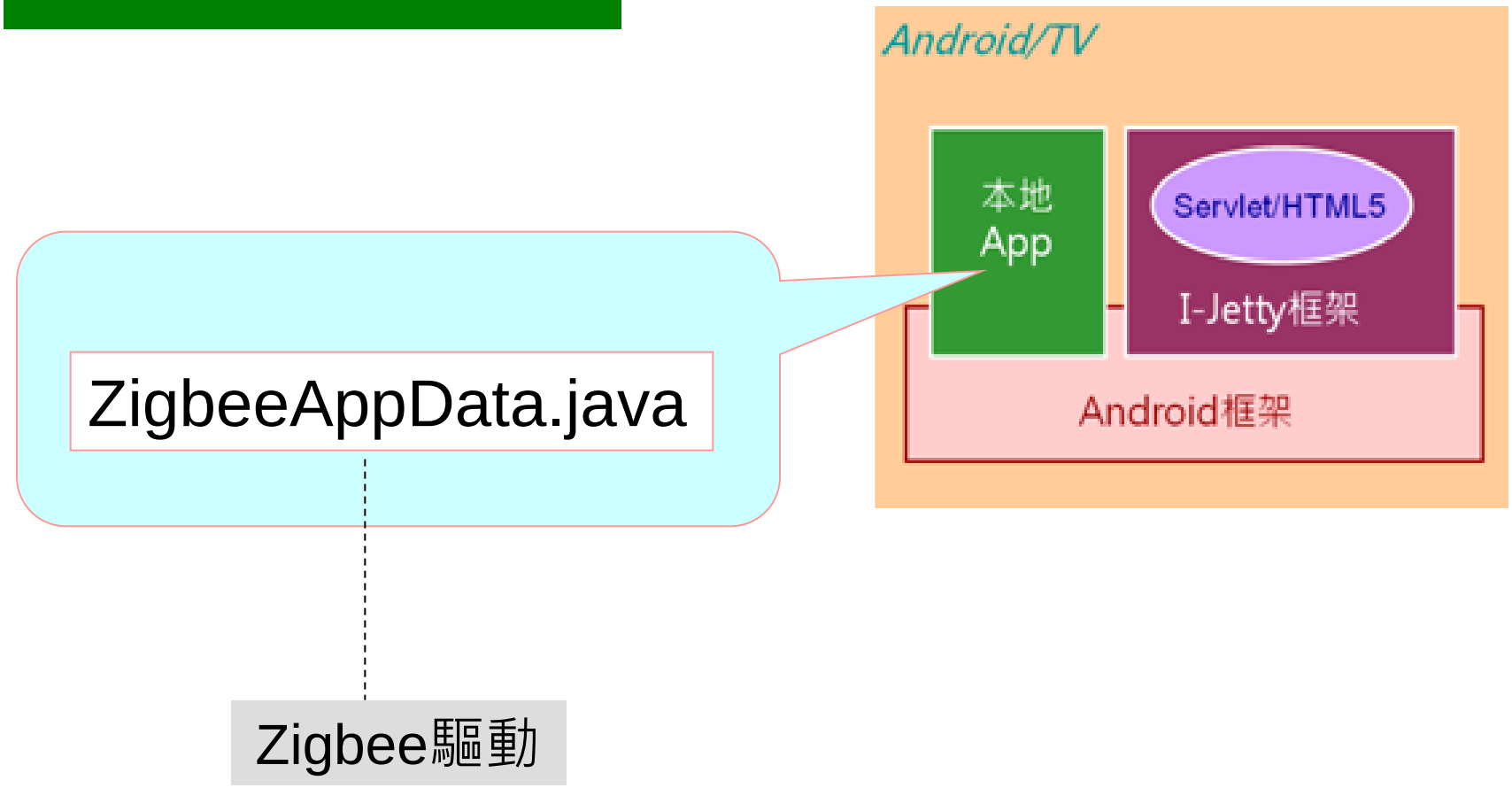
會議廳主燈

智能电视软硬整合战略联盟
Smart TV Integration of Hardware and Software Developers Conferencee

范例代码


Android/TV
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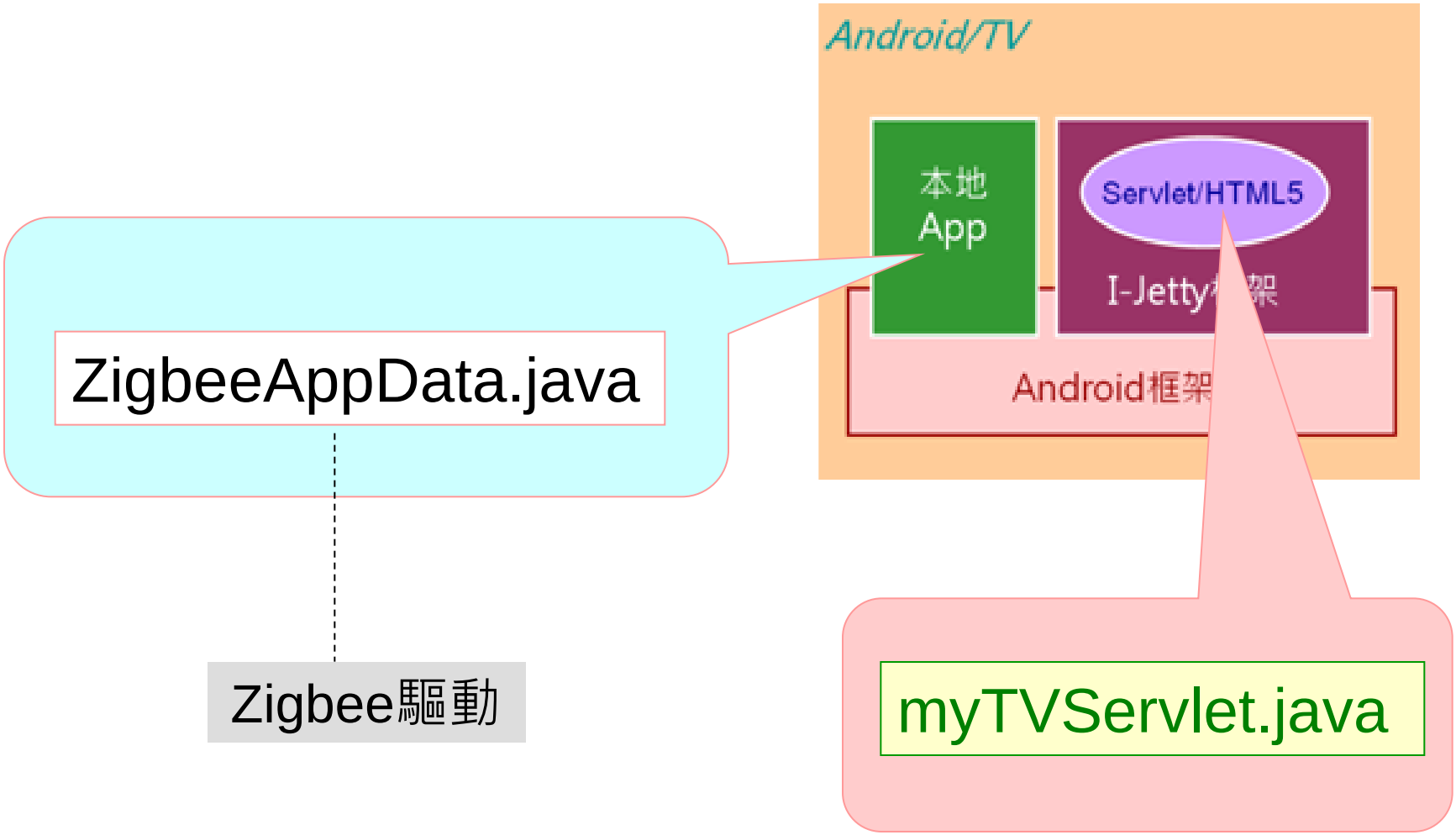
App
Servlet/HTML5
I-Jetty框架
Android框架
ZigbeeAppData.java
Zigbee驅動


Android/TV
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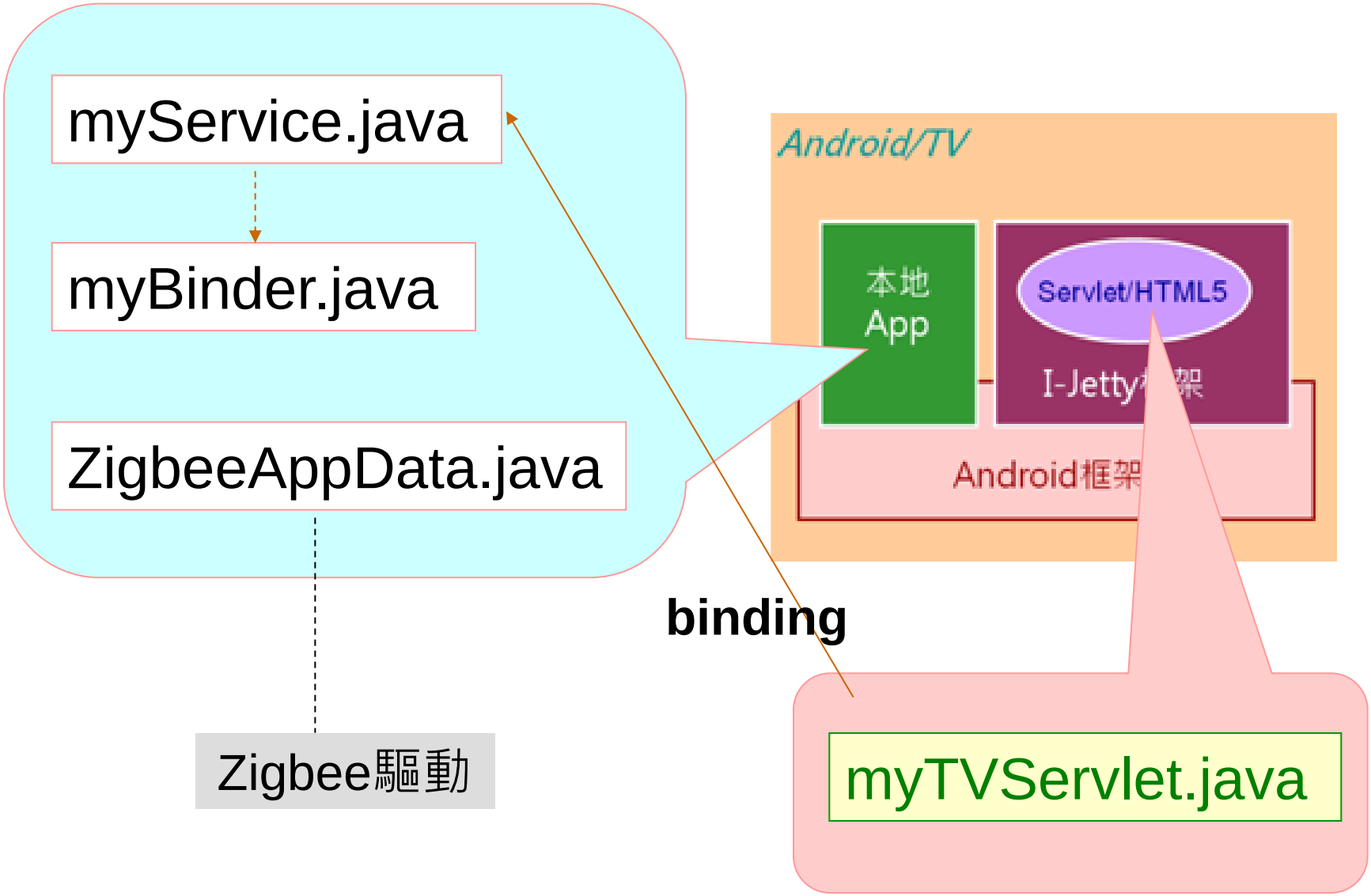
I-Jetty
Android框架
ZigbeeAppData.java
Zigbee驅動
myTVServlet.java


myService.java
myBinder.java
ZigbeeAppData.java
Zigbee驅動
Android/TV
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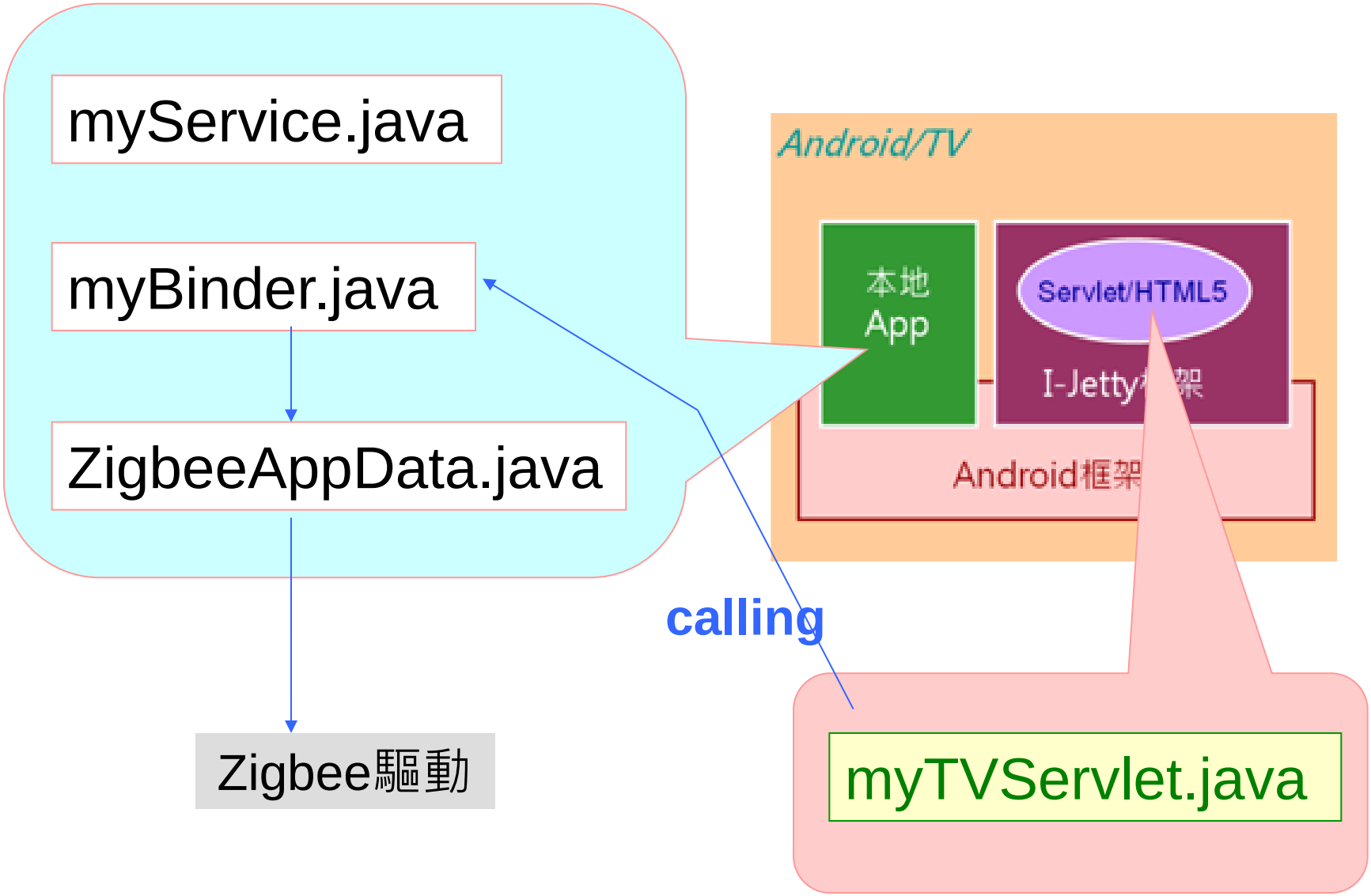
App
Servlet/HTML5
I-Jetty
Android框架
binding
myTVServlet.java


myService.java
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ZigbeeAppData.java
Zigbee驅動
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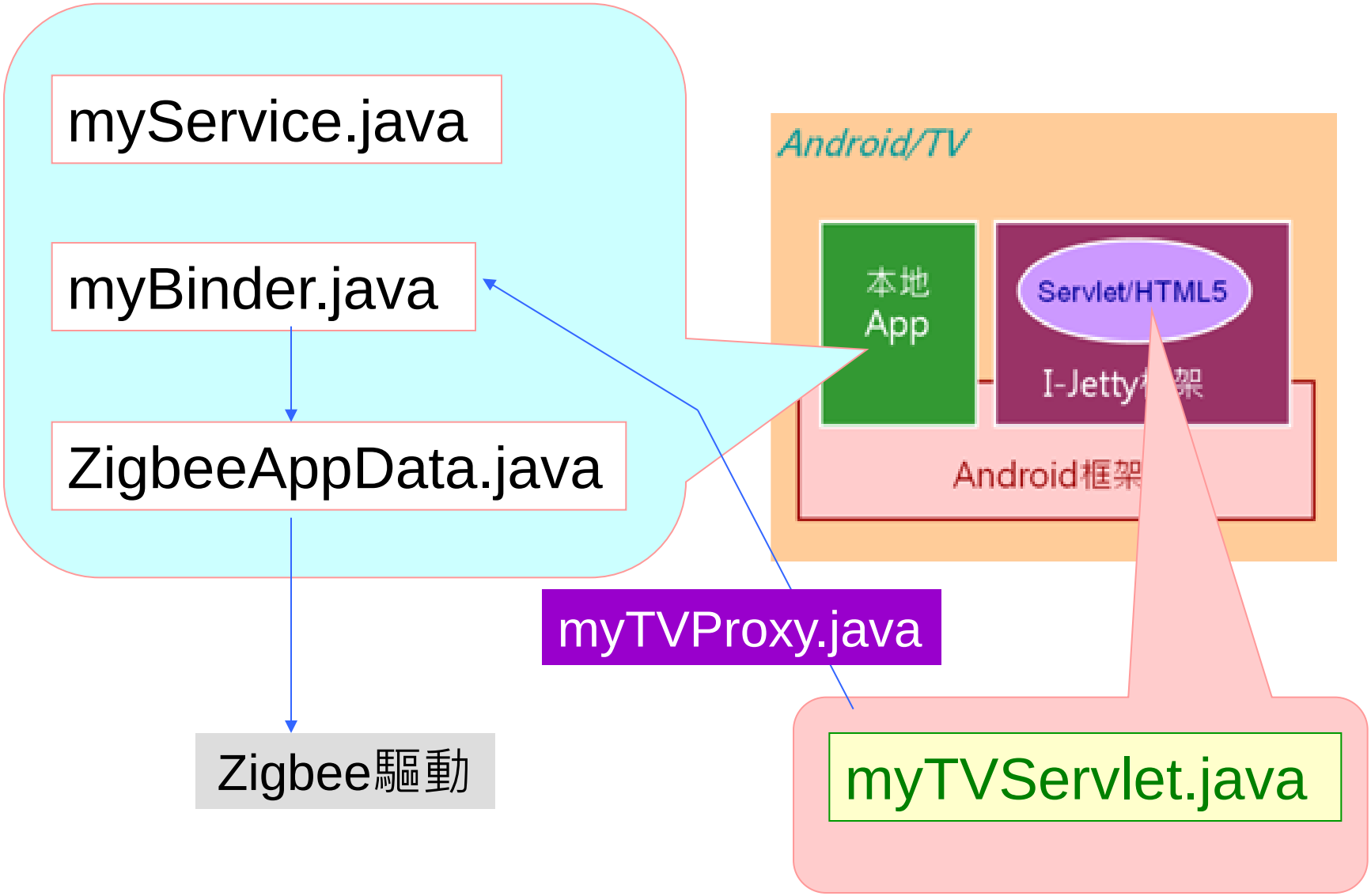
Servlet/HTML5
Android框架
calling
myTVServlet.java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myTVProxy.java
myTVServlet.java

```
// myBinder類
package com.google.android.ZigbeeApp;
import android.content.Context;
import android.os.Binder;
import android.os.Parcel;

public class myBinder extends Binder {
        private ZigbeeAppData mZigbeeAppData ;
        private Context context ;
        public myBinder(Context ctx){
                context = ctx ;
                mZigbeeAppData = new ZigbeeAppData();
        }
```

```
    @Override
    public boolean onTransact( int code, Parcel data, Parcel reply,
                                                int flags)
        throws android.os.RemoteException {
          if (code == 1) reply.writeString(
                  mZigbeeAppData.getAppData( data.readString()) );
          else if (code == 2)
              {   String [] strings = {};
                  data.readStringArray(strings) ;
                   mZigbeeAppData.setAppdata(strings[0], strings[1]) ;
              }
          return true ;
        }
}
```

```
// myService類
package com.google.android.ZigbeeApp;
import android.app.Service;
import android.content.Intent;
import android.os.IBinder;

public class myService extends Service{
        private IBinder mBinder = null ;
        @Override public void onCreate() {
            mBinder = new myBinder(getApplicationContext());
        }
        @Override public IBinder onBind(Intent intent){
            return mBinder ;
        }
}
```

```
// myTVServlet類
package org.mortbay.ijetty;
import java.io.IOException;
import javax.servlet.ServletConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletOutputStream;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import android.content.ComponentName;
import android.content.Intent;
import android.content.ServiceConnection;
import android.os.IBinder;
import android.os.Parcel;
import android.util.Log;
```

```
public class myTVServlet extends HttpServlet {
        private static final long serialVersionUID = 1L;
        private  String proofOfLife ;
        private myTVProxy pProxy = null ;
        public void init(ServletConfig config) throws ServletException
         {
            super.init(config);
            android.content.Context androidContext =
              (android.content.Context)config.getServletContext().
                        getAttribute("org.mortbay.ijetty.context");
           proofOfLife=
                  androidContext.getApplicationInfo().packageName;
            androidContext.bindService ( new Intent(
              "com.google.android.ZigbeeApp.REMOTE_SERVICE"),
              mConnection,
              android.content.Context.BIND_AUTO_CREATE);
          }
```

```
private ServiceConnection mConnection =
        new ServiceConnection() {
            public void  onServiceConnected(
               ComponentName className, IBinder ibinder)
                    {
                        pProxy = new myTVProxy(ibinder);
                     }
            public void onServiceDisconnected(
                                ComponentName className) {}
             };
```

```
protected void doGet( HttpServletRequest request,
    HttpServletResponse response)
        throws ServletException, IOException {
          // TODO Auto-generated method stub
        response.setContentType("text/html");
        ServletOutputStream out = response.getOutputStream();
        out.println("<html>");
        out.println("<h1>TVZigbee Status From i-Jetty in FamilyCoud!
                    RESULT is " + pProxy.getStatus(
                    "Text_POWERSTATUS") + "</h1>");
        out.println("</html>");
        out.flush();
  }
protected void doPost(HttpServletRequest request,
        HttpServletResponse response)
            throws ServletException, IOException { }
```

```
private class myTVProxy  {
        private IBinder ib ;
        private String mStatus ;
        myTVProxy(IBinder ibinder) { ib = ibinder ;}
        public String getStatus(String what) {
                Parcel pc = Parcel.obtain();
                Parcel pc_reply = Parcel.obtain();
                pc.writeString(what) ;
                try {
                        ib.transact(1, pc, pc_reply, 0);
                        mStatus =  pc_reply.readString();
                } catch (Exception e) {
                        e.printStackTrace();
                }
                return mStatus ;
        }
```

```
public void refreshStatus(String what, String value) {
                String[] strings = {"","On"};
                strings[0] = what;
                strings[1] = value;
                Parcel pc = Parcel.obtain();
                pc.writeStringArray(strings);
                Parcel pc_reply = Parcel.obtain();
                try {
                        ib.transact(1, pc, pc_reply, 0);
                } catch (Exception e) {
                        e.printStackTrace();
                }

        }}}
```

Thanks...

高煥堂