Demo51-Service与Activity绑定通信

备注：Activity若想与Servcie通信，进行数据交互，需要进行绑定开启

1. 在MyService里面创建内部类MyBinder(继承Binder)；
2. 在MyService里面构造MyBinder对象；
3. 在onBind（）方法里面return这个MyBinder对象；
4. Activity构造MyService内部类对象；
5. Activity构造ServiceConnection匿名类对象;
6. 重写onServiceConnected（）的时候，就可以构造MyBinder对象，然后调用它的象方；
7. 第6步实现了可以在Activity里面调用MyService的API，我们就称之为可以通信。
8. Activity构造Intent对象，bindService()和unbindService即可绑定和解绑
9. 一个Service可以和多个Activity绑定，而且是通过同一个Binder对象调用Service里面的API。

MyService.java

**import** android.app.Service;  
**import** android.content.Intent;  
**import** android.os.Binder;  
**import** android.os.IBinder;  
**import** android.util.Log;  
**import** android.widget.Toast;  
  
**public class** MyService **extends** Service {  
  
 **public** MyService() {  
 }  
  
  
 *//1.* **class** DownloadBinder **extends** Binder{  
  
 **public void** startDownload(){  
  
 Toast.*makeText*(MyService.**this**,**"开始下载"**,Toast.***LENGTH\_SHORT***).show();  
 Log.*d*(**"执行"**,**"开始下载"**);  
 }  
  
 **public void** getProgress(){  
  
 Toast.*makeText*(MyService.**this**,**"获取进度"**,Toast.***LENGTH\_SHORT***).show();  
 Log.*d*(**"执行"**,**"获取进度"**);  
 }  
 }  
  
 *//2.* **private** DownloadBinder **mDownloadBinder**=**new** DownloadBinder();  
  
  
  
 *//3.* @Override  
 **public** IBinder onBind(Intent intent) {  
 **return mDownloadBinder**;  
 }  
}

activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity"**>  
  
 <**Button  
 android:id="@+id/btn\_start"  
 android:text="绑定服务"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"** />  
  
 <**Button  
 android:id="@+id/btn\_stop"  
 android:text="解绑服务"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"** />  
  
</**LinearLayout**>

MainActivity.java

**import** android.content.BroadcastReceiver;  
**import** android.content.ComponentName;  
**import** android.content.Intent;  
**import** android.content.ServiceConnection;  
**import** android.os.IBinder;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
  
 *//1.构造mDownloadBinder对象* **private** MyService.DownloadBinder **mDownloadBinder**;  
  
 *//2.构造ServiceConnection匿名类对象* **private** ServiceConnection **mServiceConnection**=**new** ServiceConnection() {  
 @Override  
 **public void** onServiceConnected(ComponentName name, IBinder service) {  
  
 **mDownloadBinder**= (MyService.DownloadBinder) service;  
 **mDownloadBinder**.startDownload();  
 **mDownloadBinder**.getProgress();  
 }  
  
 @Override  
 **public void** onServiceDisconnected(ComponentName name) {  
  
 }  
 };  
  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
  
 Button btn\_bind= (Button) findViewById(R.id.***btn\_start***);  
 Button btn\_unbind= (Button) findViewById(R.id.***btn\_stop***);  
  
 btn\_bind.setOnClickListener(**this**);  
 btn\_unbind.setOnClickListener(**this**);  
 }  
 @Override  
 **public void** onClick(View v) {  
  
 **switch** (v.getId()){  
  
 **case** R.id.***btn\_start***:  
 Intent bindIntent=**new** Intent(**this**,MyService.**class**);  
 bindService(bindIntent,**mServiceConnection**,***BIND\_AUTO\_CREATE***);  
 **break**;  
 **case** R.id.***btn\_stop***:  
 unbindService(**mServiceConnection**);  
 **break**;  
 **default**:**break**;  
 }  
 }  
}

