



Android Sync Adapter介绍和使用

陆康

Aldiko Limited

2013.4.24

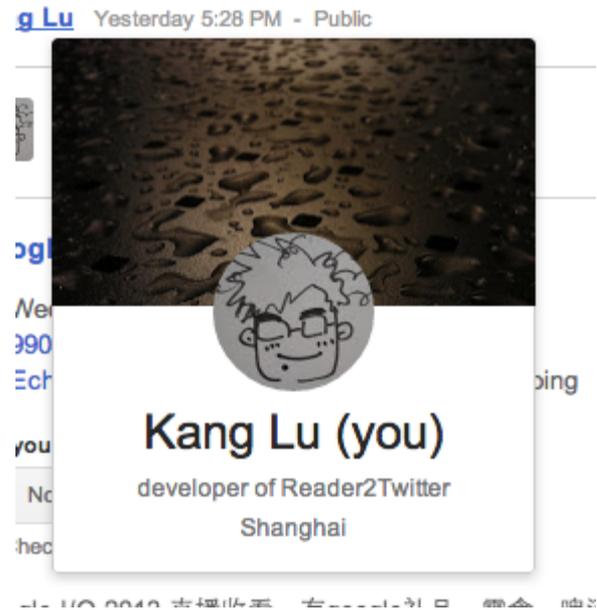


自我介绍

陆康

twitter: @lookon

weibo: lookon康爷



内容纲要

Why Sync Adapter

How to use Sync Adapter

Resources

Why Sync Adapter

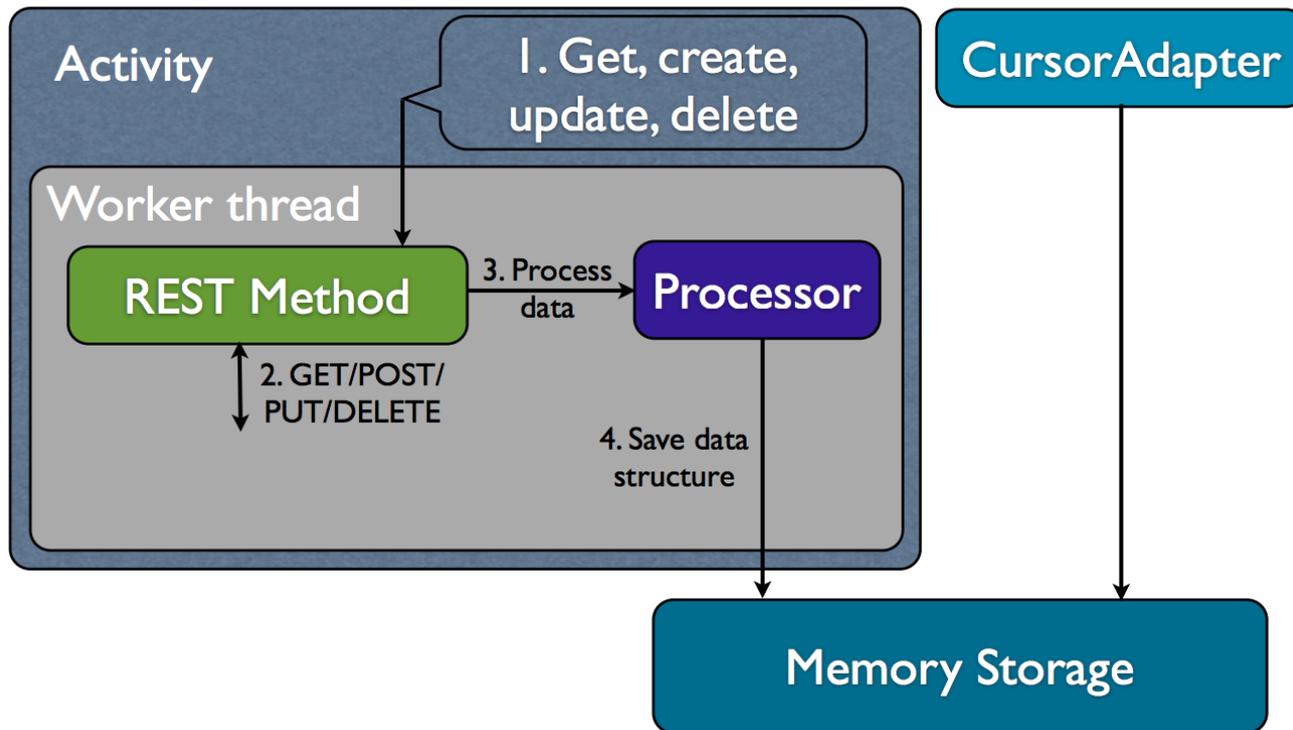
Incorrect Implementation of REST Methods

“I haven’t failed, I’ve found 10,000 ways that don’t work.”

- Thomas Alva Edison

Why Sync Adapter

Incorrect Implementation of REST Methods



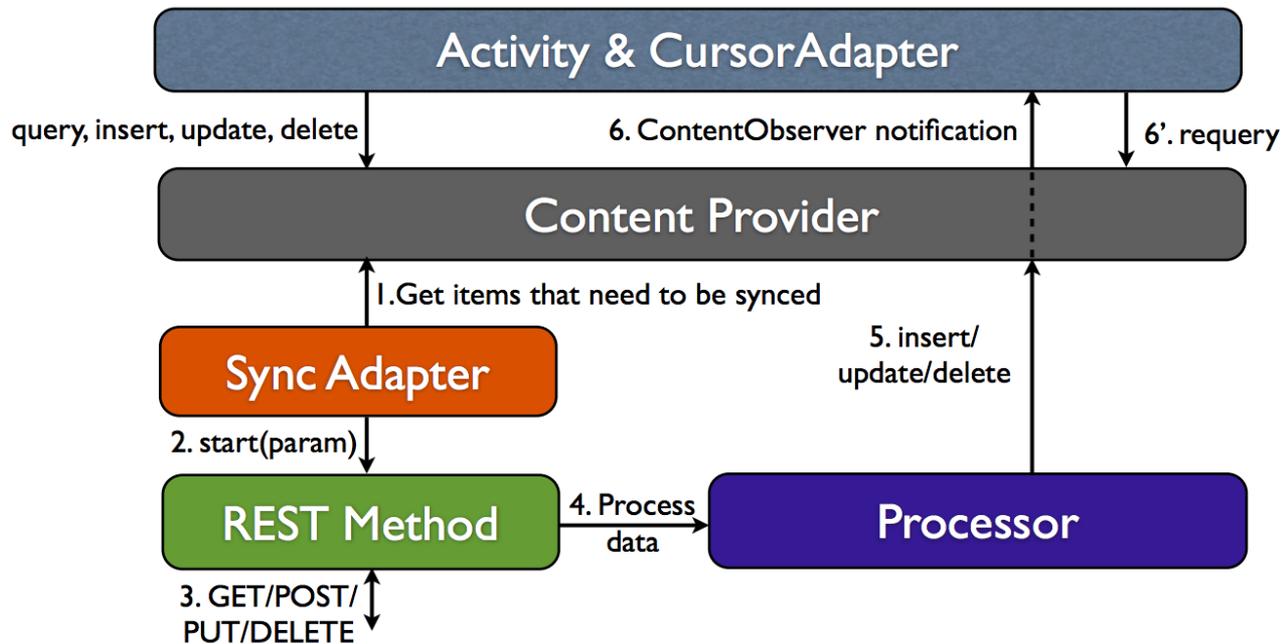
Why Sync Adapter

What's wrong?

- The operating system may shut down the process
- Data is not persistently stored

Why Sync Adapter

Use a sync adapter to initiate all your REST methods



How to use Sync Adapter

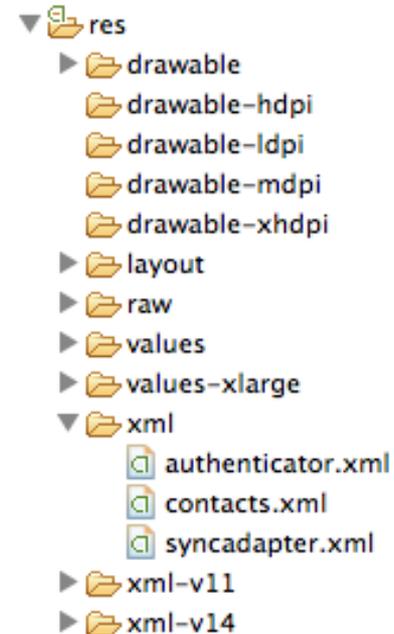
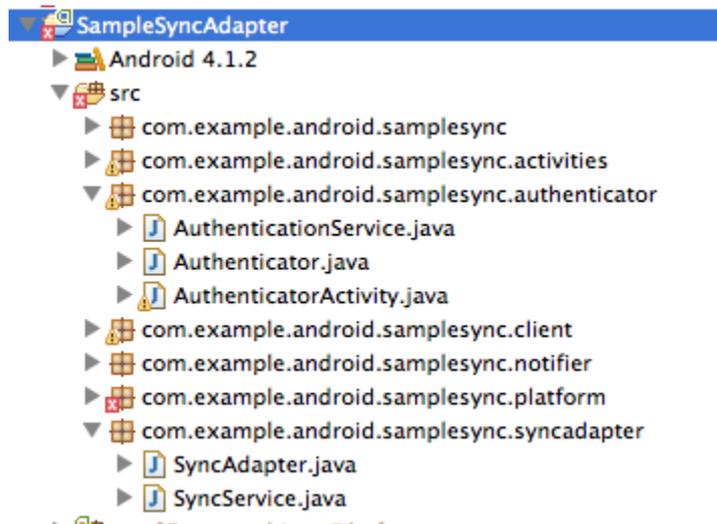
Virgil Dobjanschi



How to use Sync Adapter

1. AuthenticatorService
2. Authenticator
3. AccountAuthenticatorActivity
4. SyncService
5. SyncAdapter

How to use Sync Adapter



How to use Sync Adapter

AndroidManifest.xml

```
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
<uses-permission android:name="android.permission.READ_CONTACTS" />
<uses-permission android:name="android.permission.WRITE_CONTACTS" />
<uses-permission android:name="android.permission.GET_ACCOUNTS" />
<uses-permission android:name="android.permission.MANAGE_ACCOUNTS" />
<uses-permission android:name="android.permission.AUTHENTICATE_ACCOUNTS" />
<uses-permission android:name="android.permission.READ_SYNC_SETTINGS" />
<uses-permission android:name="android.permission.WRITE_SYNC_SETTINGS" />
```

How to use Sync Adapter

AndroidManifest.xml

```
<service
    android:name=".authenticator.AuthenticationService"
    android:exported="true">
    <intent-filter>
        <action
            android:name="android.accounts.AccountAuthenticator" />
        </intent-filter>
    <meta-data
        android:name="android.accounts.AccountAuthenticator"
        android:resource="@xml/authenticator" />
</service>
<service
    android:name=".syncadapter.SyncService"
    android:exported="true">
    <intent-filter>
        <action
            android:name="android.content.SyncAdapter" />
        </intent-filter>
    <meta-data
        android:name="android.content.SyncAdapter"
        android:resource="@xml/syncadapter" />
</service>
```

How to use Sync Adapter

syncadapter.xml

```
<sync-adapter xmlns:android="http://schemas.android.com/apk/res/android"  
    android:contentAuthority="com.android.contacts"  
    android:accountType="com.example.android.samplesync"  
    android:supportsUploading="false"  
    android:userVisible="true"  
>
```

How to use Sync Adapter

authenticator.xml

```
<account-authenticator xmlns:android="http://schemas.android.com/apk/res/android"  
    android:accountType="com.example.android.samplesync"  
    android:icon="@drawable/icon"  
    android:smallIcon="@drawable/icon"  
    android:label="@string/label"  
>
```

How to use Sync Adapter

SyncAdapter.java

Public Methods	
<code>Context</code>	<code>getContext ()</code>
<code>final IBinder</code>	<code>getSyncAdapterBinder ()</code>
<code>abstract void</code>	<code>onPerformSync (Account account, Bundle extras, String authority, ContentProviderClient provider, SyncResult syncResult)</code> Perform a sync for this account.
<code>void</code>	<code>onSyncCanceled (Thread thread)</code> Indicates that a sync operation has been canceled.
<code>void</code>	<code>onSyncCanceled ()</code> Indicates that a sync operation has been canceled.

Resources

1.VD <https://dl.google.com/googleio/2010/android-developing-RESTful-android-apps.pdf>

2. Concept of Sync Provider

<https://sites.google.com/site/andsamples/concept-of-syncadapter-androidcontentabstractthreadedsyncadapter>

3. Android SDK Sample - Sample Sync Adapter



开放 分享 创新

developers.google.com