

# DU Ad Platform SDK for Android Access Guide

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DUAd\_SDK\_CW1.0.6

**Baidu Online Network Technology (Beijing) Co., Ltd**

|       |                        |
|-------|------------------------|
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| Ver.  | 1.0.6                  |
| Email | support_duad@baidu.com |

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## 1 Introduction

This document describes how to integrate **DU Ad Platform SDK** into Android apps. **DAP, short for DU Ad platform** offers advertising services for helping Android apps to monetize. This version of SDK provides native ad, interstitial ad and advertising wall.

### 1.1 Target Audience

This document is for Android app developers.

### 1.2 Prerequisites

DU Ad Platform SDK currently supports Android 2.3 API level 9 (included) plus system versions.

### 1.3 Document Conventions

The document conventions are listed below:

| Element         | Description          | Example                           |
|-----------------|----------------------|-----------------------------------|
| Folder name     | .zip, aar etc.       | DuappsAd_CW_xxxx.aar              |
| System elements | Path, Parameters     | \${ android-sdk }/tools/proguard/ |
| Reference       | Style: Italic        | See <a href="#">3.1</a>           |
| Code            |                      | DuAdNetwork.init(this, keyJson);  |
| CTA Button      | Style: Bold          | <b>Download, Install Now</b>      |
| Note            | points for attention | <b>* Note:</b>                    |

## 2 Integration Workflow

This section describes the integration workflow of **DU Ad Platform SDK**.

- The integration workflow for **Single Du Native Ad**:
  1. Apply for App\_ID and DAP Placement\_ID and Facebook Placement ID. See [Section 3](#).
  2. Load **DU Ad Platform SDK** package; configure Androidmanifest.xml. See [Section 4](#).
  3. Initialize **DU Ad Platform SDK** See [Section 5](#).
  4. Access single Du native ad. See [Section 6](#). [Section 7](#). [Section 8](#).
  
- The access workflow of **DU interstitial ad**:
  1. Apply for App\_ID and DAP Placement\_ID and Facebook Placement ID. See [Section 3](#).
  2. Load **DU Ad Platform SDK** work package; configure Androidmanifest.xml. See [Section 4](#).
  3. Initialize **DU Ad Platform SDK**. See [Section 5](#).
  4. Access Du Interstitial Ad. See [Section 9](#).
  
- The access workflow of **DU advertising wall**:
  1. Apply for App\_ID and DAP Placement\_ID and Facebook Placement ID. See [Section 3](#).
  2. Load **DU Ad Platform SDK** work package; configure Androidmanifest.xml. See [Section 4](#).
  3. Initialize **DU Ad Platform SDK**. See [Section 5](#).
  4. Access Du advertising wall. See [Section 10](#).

### 3 Obtain Identity

This section describes the three IDs needed during **DU Ad Platform SDK** integration:

APP ID, DAP Placement ID and Facebook Placement ID.

### 3.1 APP ID

A. Definition

APP ID is a unique identifier of a developer's APP on **Du Ad Platform**. Each app has its own App ID.

B. Obtain method

Visit our official website <http://ad.duapps.com> and register your app on **Du Ad Platform**, the APP ID will be generated automatically.

C. Code

`app_license`

### 3.2 DAP Placement ID

A. Definition

DAP Placement ID is a unique identifier of an ad slot on **DAP (Du Ad platform)**. Developers can create multiple DAP Placement IDs for one app.

B. Obtain method

Visit our official website <http://ad.duapps.com> and after registered your app, you can create the placement for your app.

C. Code

`Pid`

### 3.3 Facebook Placement ID

A. Definition

Facebook Placement ID is the unique identifier of an ad slot on Facebook audience network.

B. Obtain method

Visit Facebook Developers <https://developers.facebook.com> to apply it.

C. Code

`fbids`

## 4 Load SDK and Configuration

This section describes how to load the **DU Ad Platform SDK** into your android project, how to configure the *AndroidManifest.xml* file and how to obfuscate code

against project needs.

## 4.1 Load DU Ad Platform SDK

A. **Download** the DU Ad Platform SDK package.

- Package name: *DuAD\_SDK\_CWxxxx.zip*

B. **Unzip** the package

After unzipping the package, two folders are available in the subdirectory:

- **DUAd\_SDK**

This folder stores **DU Ad Platform SDK** aar: *DuappsAd\_CW\_xxxx.aar*

- **DUAd\_SDK\_DEMO**

This folder stores a sample program, which integrates **DU Ad Platform SDK**. All interfaces in this document can be found in corresponding usage in this sample program.

C. **Load** DU Ad Platform SDK

- **When using Android Studio:**

- 1) Copy the **SDK** aar to your Android Project, under the *libs* directory in root directory.
- 2) Then configure build.gradle:

```
repositories {
    flatDir {
        dirs 'libs'
    }
}
dependencies {
    compile fileTree(include: ['*.jar'], dir: 'libs')
    compile(name: 'DuappsAd_CW_Online_v1.0.6', ext: 'aar')
}
```

**\*Note:** The assigned directory of flatDir is where the aar file is placed.

- **When using Eclipse:**

- 1) Create a new Android library.
- 2) Change the **suffix** of *DuappsAd\_CW\_Online\_xxxx.aar* to **zip** and unzip it, then you will get a **classes.jar**, an **AndroidManifest.xml** and a **res** folder.
- 3) Copy the **classes.jar** and a universal-image-loader-1.9.3.jar to the new created Android library, under the *libs* directory in root directory.
- 4) Replace the AndroidManifest.xml in the new created Android library with the **AndroidManifest.xml** in unzipped *DuappsAd\_CW\_Online\_xxxx.aar*
- 5) Replace the res folder in the new created Android library with the **res**

folder in unzipped DuappsAd\_CW\_Online\_xxxx.aar.

## 4.2 Configure AndroidManifest.xml

Update your *Android Manifest*:

A. Add a `user-permission` element to the manifest. Least Privilege of **DU Ad Platform SDK** is shown below:

```
<uses-permission
android:name="android.permission.INTERNET" />
<uses-permission
android:name="android.permission.ACCESS_NETWORK_STATE" />
```

B. Add a `meta-data` element to the `application` element, and fill your DAP App ID (See [3.1](#).) as the value of “app\_license”.

```
<application
  android:name="Your_PackageName.MobulaApplication"
  android:label="@string/app_name"
  . . . >
  <meta-data
    android:name="app_license"
    android:value="@string/DAP_APP_ID" />
</application>
```

C. Declare the `com.duapps.ad.stats.DuAdCacheProvider` in the manifest. Replace the below `packagename` with your app’s full package name. Please make sure the package name at here is exactly the same as the package name you filled on DAP when registering you app. Otherwise, it will fail to get ad from DAP.

```
<provider
  android:name="com.duapps.ad.stats.DuAdCacheProvider"
  android:authorities="packagename DuAdCacheProvider"
  android:exported="false">
</provider>
```

D. Register the BroadcastReceiver for receiving app install event.

Solution 1: Statically register the PACKAGE\_ADDED Receiver in AndroidManifest.xml.

```
<receiver
  android:name="com.duapps.ad.base.PackageAddReceiver" >
  <intent-filter>
```

```
<action
    android:name="android.intent.action.PACKAGE_ADDED" />
    <data android:scheme="package" />
</intent-filter>
</receiver>
```

Solution 2: Dynamically register the BroadcastReceiver for PACKAGE\_ADDED.

If developers had registered their own BroadcastReceiver for PACKAGE\_ADDED in AndroidManifest.xml, they should use the below interface to pass the broadcast of APP install event to Du Ad platform SDK. **This interface can be used repeatedly.**

- **Interface Instruction:**

**DuAdNetwork.onPackageAddReceived**(Context context, Intent intent);

| Parameters      | Description         |
|-----------------|---------------------|
| Context context | Application context |
| Intent intent   | Broadcast intent    |

- **Code Sample:**

```
public class MyBroadcast extends BroadcastReceiver{

    @Override
    public void onReceive(Context context, Intent intent) {
        DuAdNetwork.onPackageAddReceived(context, intent);
    }
}
```

\* Note: The above “MyBroadcast” is the developer’s own BroadcastReceiver for PACKAGE\_ADDED.

### 4.3 Obfuscate Code

**Please follow the below rules to obfuscate code. Otherwise, there might be exceptions at run time.**

A: Exclude classes of **DU Ad Platform SDK** when obfuscating;

B: Below classes can add to proguard configuration:

```
-keep class com.dianxinos.DXStatService.stat.TokenManager {
    public static java.lang.String getToken(android.content.Context);
}
-keep public class * extends android.content.BroadcastReceiver
```



```
-keep public class * extends android.app.Activity
-keep public class * extends android.app.Application
-keep public class * extends android.content.ContentProvider

-keepnames @com.google.android.gms.common.annotation.KeepName class *
-keepclassmembernames class * {
    @com.google.android.gms.common.annotation.KeepName *;}
-keep class com.google.android.gms.common.GooglePlayServicesUtil {
    public <methods>;}

-keep class com.google.android.gms.ads.identifier.AdvertisingIdClient {
    public <methods>;}
-keep class
com.google.android.gms.ads.identifier.AdvertisingIdClient$Info {
    public <methods>;}
```

\* **Note:** For more about obfuscation methods, please refer to the official Android obfuscation document at: `${ android-sdk }/tools/proguard/`

## 5 Initialization

This section describes how to initialize DAP SDK. You need to initialize DAP SDK before you can use it.

- **Method:**

Add a call to `DuAdNetwork.init()` from `onCreate` in your Application class.

```
import com.duapps.ad.base.DuAdNetwork;
public class MobulaApplication extends Application {
    @Override
    public void onCreate() {
        super.onCreate();
        // Initialize the DAP SDK before executing any other
        operations
        DuAdNetwork.init(this,
        getConfigJSON(getApplicationContext()));
    }
```

- **Operation:**

Go to `init` and use JSON format to write **String** data with mappings for the **DAP Placement ID (pid)** and **Facebook Placement ID (fbids)**

```
{
```

```

    "native": [
      {
        "pid": "10032",
        "fbids": [
          "xxxxxxxxx_xxxxxxxxxx",
          "xxxxxxxxx_xxxxxxxxxx" ]
      }, {
        "pid": "xxxxx",
        "fbids": ["xxxxxxxxx_xxxxxxxxxx"]
      }
    ],
    "offerwall": [
      {
        "pid": "xxxxx",
        "fbids": "xxxxxxxxx_xxxxxxxxxx"
      }
    ]
  }

```

**\*Note:** If some of the DAP placements (pid) don't need ads from Facebook, the "fbids" part for that "pid" (DAP placement) could be removed.

- **Interface Instruction:**

**public static void** *init*(Context context, String pidsJson);

| Parameters             | Description                                                          |
|------------------------|----------------------------------------------------------------------|
| <b>Context context</b> | Activity Context                                                     |
| <b>String pidsJson</b> | The relationship between DAP Placement ID and Facebook Placement ID. |

- **Code Sample:**

```

/** read the json.txt from assets */

```

```

private String getConfigJSON(Context context) {
    BufferedInputStream bis = null;

```

```
        ByteArrayOutputStream bos = new ByteArrayOutputStream();
        try {
            bis = new
BufferedInputStream(context.getAssets().open("json.txt"));
            byte[] buffer = new byte[4096];
            int readLen = -1;
            while ((readLen = bis.read(buffer)) > 0) {
                bos.write(buffer, 0, readLen);
            }
        } catch (IOException e) {
            Log.e("", "IOException :" + e.getMessage());
        } finally {
            closeQuietly(bis);
        }

        return bos.toString();
    }

    private void closeQuietly(Closeable closeable) {
        if (closeable == null) {
            return;
        }
        try {
            closeable.close();
        } catch (IOException e) {
            // empty
        }
    }
}
```

## 6 Request single native ad

### 6.1 Construction

#### 6.1.1 Constructor of Du Native Ad

- **Interface Instructions:**

**public** DuNativeAd (Context context, **int** pid)

**public** DuNativeAd (Context context, **int** pid, **int** cacheSize)

| Parameters      | Description                                                               |
|-----------------|---------------------------------------------------------------------------|
| Context context | Activity Context                                                          |
| int pid         | DAP placement ID, see <a href="#">3.2</a>                                 |
| int cacheSize   | ad cache size.<br>Recommend to set cachesize to 1 or don't set cachesize. |

- **Code Sample:**

```
private DuNativeAd nativeAd;

nativeAd = new DuNativeAd(this, "your_DAP_placement_ID",
    "Your_cache_size");
```

### 6.1.2 Correlate Facebook Placement ID dynamically

- **Interface Instructions:**

**public void** setFbids (List<String> fbids);

| Parameters         | Description                                    |
|--------------------|------------------------------------------------|
| List<String> fbids | Facebook Placement ID, see <a href="#">3.3</a> |

**\*Note:** For using this interface, a default correlated fbids need to be configured in Json (see [chapter 5](#)). Then the new parameter (List<String> fbids) will cover the corresponding fbids configured in Json.

## 6.2 Pre-cache the native ad

- **Interface Instruction:**

**public void** fill();

Use the fill() to pre-cache ad in advance for faster loading the ad when using load(). Developers can select the timing for pre-cache native ad.

**Suggestion:** Use the fill() at the page before the ad showing page.

**\*Note:** Ad data will be cached in client device's memory. Since SDK only caches the image's URL address not the image data, the cache size is small.

## 6.3 Retrieve native ad

Please register a callback interface for receiving the native ad data. The ad retrieving process is asynchronous, so it will not block developers' threads.

### 6.3.1 Set listener for native ad

- **Interface Instruction:**

**public void** setMobulaAdListener (**DuAdListener** adListener);

| Parameters   | Description                                                                                                                                                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DuAdListener | Callback function returns: ad error, ad data, and ad click event.<br><pre> public interface DuAdListener {     public void onError(DuNativeAd ad, AdError error);     public void onAdLoaded(DuNativeAd ad);     public void onClick(DuNativeAd ad); }</pre> |

### 6.3.2 Retrieve ad

- **Interface Instruction:**

**public void** load();

- **Code Sample:**

```

if (nativeAd != null) {
    nativeAd.setMobulaAdListener (mListener);
    nativeAd.load();
}
```

```

DuAdListener mListener = new DuAdListener () {
    @Override
    public void onError (DuNativeAd ad, AdError error) {
    }
    @Override
    public void onClick (DuNativeAd ad) {
    }
    @Override
    public void onAdLoaded (final DuNativeAd ad) {
    }
};
```

After called load(), three types of results could be returned:

- Retrieve ad successfully.** Modify the *onAdLoaded* function above to retrieve the ad properties. See [7.2](#).
- Get an error.** Get specific error information in *onError* function above. Error code and description are shown in [Table 2](#).

Table2 Error Code

| Constants                                   | Error Code | Description                 |
|---------------------------------------------|------------|-----------------------------|
| <code>NETWORK_ERROR_CODE</code>             | 1000       | Client network error        |
| <code>NO_FILL_ERROR_CODE</code>             | 1001       | No Ad data retrieved        |
| <code>LOAD_TOO_FREQUENTLY_ERROR_CODE</code> | 1002       | Too many interface requests |
| <code>SERVER_ERROR_CODE</code>              | 2000       | Server error                |
| <code>INTERNAL_ERROR_CODE</code>            | 2001       | Network error               |
| <code>TIME_OUT_CODE</code>                  | 3000       | Retrieve Ad data timed out  |
| <code>UNKNOWN_ERROR_CODE</code>             | 3001       | Unknown error               |

c) **Retrieve a ad click event.** Get informed when an ad is clicked in [onClick](#) function.

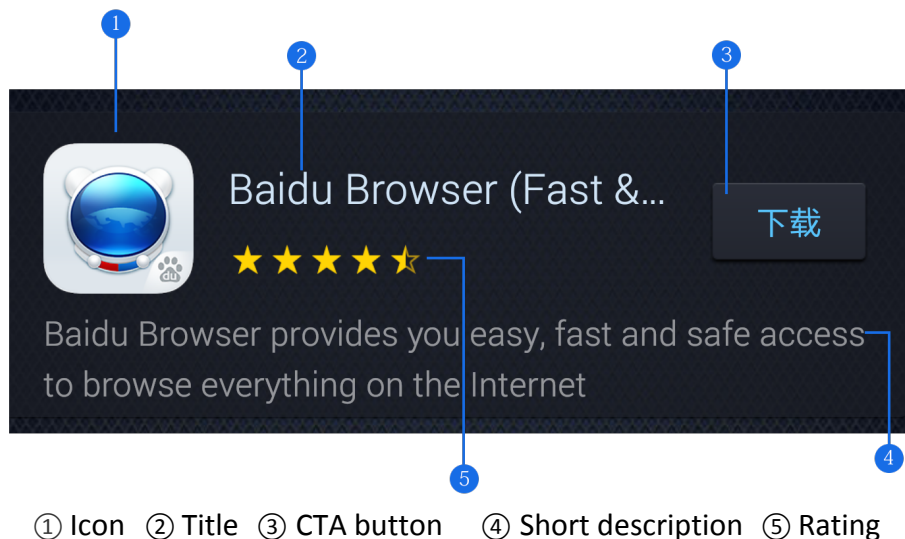
## 7. Native ad properties

When using the Native Ad, instead of receiving an ad ready to be displayed, you will receive a group of ad properties such as a title, an image, a call to action, and you will have to use them to construct a custom view where the ad is shown. This section describes the ad properties and how to get them.

### 7.1 Introduction of ad properties

Ad properties include: Icon, title, Call to action (CTA) button, short description, rating, promotion image, etc. See [Figure 1](#).

Figure 1 Ad properties



### 7.2 Get the ad properties

The interfaces for retrieving the ad properties as shown below:

- **Get Icon**

**Interface Instruction:****public String** getIconUrl();

| Return Value   | Description             |
|----------------|-------------------------|
| String iconUrl | The URL address of icon |

**● Get Title**

Please reserve at least 20 characters' space to display the title.

An ellipsis (...) can be used to indicate truncated text.

**Please note** the ad title must be included in your native ad design.

**Interface Instruction:****public String** getTitle();

| Return Value | Description     |
|--------------|-----------------|
| String title | The title of ad |

**● Get Call to Action (CTA) button**

Advertisers can specify the text of CTA button, e.g. **Install Now**. Please do not shorten or change the text.

For CTA button with promotion image, the **max** character length is **25**. For CTA button without image, the text is usually defined as **Download**.

**Please note** the CTA button must be included in your native ad design.

**Interface Instruction:****public String** getCallToAction();

| Return Value        | Description                 |
|---------------------|-----------------------------|
| String callToAction | The text of ad's CTA button |

**● Get Short description**

Please reserve at least 72 characters' space to display the short description.

If the space is not big enough, it is recommended to use scrolling text effects, or do not display the short description.

**Interface Instruction:****public String** getShortDesc();

| Return Value     | Description                 |
|------------------|-----------------------------|
| String shortDesc | The short description of ad |

**● Get Rating**

**Interface Instruction:**

**public float** getRatings();

| Return Value  | Description                     |
|---------------|---------------------------------|
| float ratings | The ad's rating on Google Play. |

- **Get Promotion Image**

A promotion image can increase user's desire to click the ad.

The image size is usually: 1200x627 pixels. You can zoom and cut part of the image, but do not distort or change it. **Please note** that not all ads have promotion images.

**Interface Instruction:**

**public String** getImageUrl();

| Return Value    | Description                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| String imageUrl | The URL address of ad's promotion image.<br>When the image is not included in current ad, the returned value is NULL. |

- **DuAdChoicesView**

This view is the AdChoices corner mark from by Facebook Native Ad. It's the mandatory element for Facebook native Ad. **Please Note that** the native ad which is not from Facebook doesn't have this.

**Constructor:** DuAdChoicesView choicesView = new DuAdChoicesView(....);

**Usage:** Create a View for AdChoices separately. It is different from Ad corner mark.

**Interface Instruction:**

**public void** addView(DuAdChoicesView choicesView);

| Return Value                | Description            |
|-----------------------------|------------------------|
| DuAdChoicesView choicesView | DuAdChoicesView object |

## 8. Register the native ad's View



The SDK will log the impression and handle the click automatically. Please note that you must register the ad's view with the DuNativeAd instance to enable that.

● **Interface Instruction:**

**public void** registerViewForInteraction(View view)

**public void** registerViewForInteraction(View view, List<View> views)

| Return Value     | Description                   |
|------------------|-------------------------------|
| View view        | Clickable View in Ad contents |
| List<View> views | More detailed sub-View        |

\* **Note:** Don't recommend using this interface in multi-thread.

## 9. Request interstitial ad

Figure 2 A sample of half screen interstitial ad (vertical and horizontal)

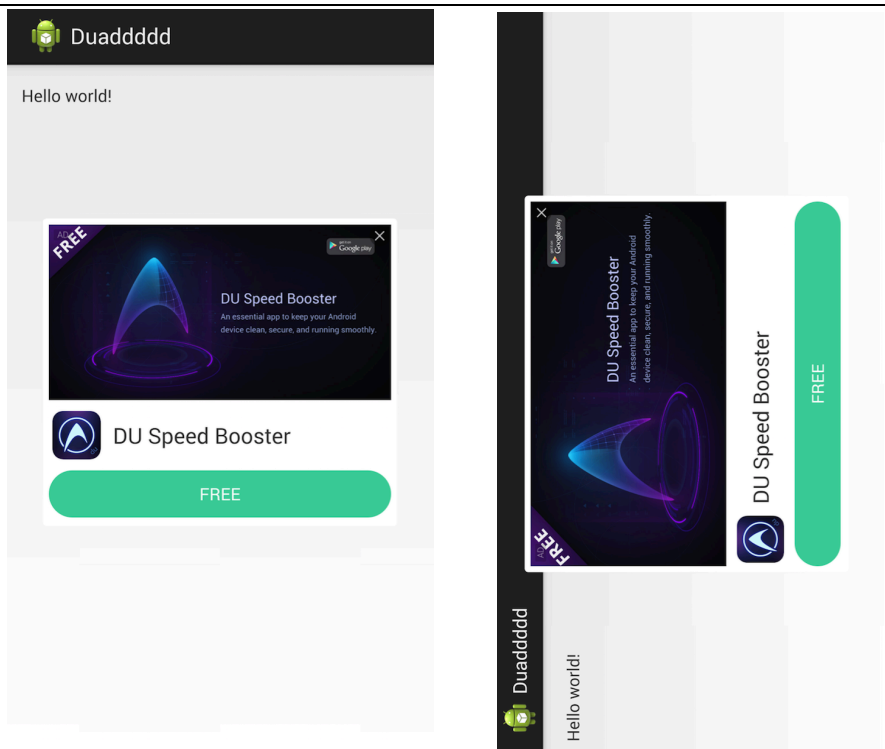


Figure 3 A sample of full screen interstitial ad



Uber

Get \$10 off your next ride when you pay with Android Pay

FREE

## 9.1 Constructor of interstitial ad

- **Interface Instruction:**

**public** InterstitialAd (Context context, int pid, int type)

| Parameters             | Description                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Context context</b> | ACTIVITY CONTEXT                                                                                                                   |
| <b>int pid</b>         | DAP placement ID                                                                                                                   |
| <b>int type</b>        | InterstitialAd.Type.SCREEN: is full screen Ad<br>InterstitialAd.Type.NORMAL: is half screen Ad<br>The default value is half screen |

\* **Note:** The initialization JSON for InterstitialAd need to be added into “Native” part, see [Section 5](#).

```
{
  "native": [
    {
      "pid": "xxxxx",
      "fbids": ["xxxxxxxxxxx_xxxxxxxxxxxx"]
    }
  ]
}
```

## 9.2 Set listener for interstitial ad

### ● Interface Instruction:

**public void** setInterstitialListener (AbsInterstitialListener mAbdl);

| Parameters                           | Description                |
|--------------------------------------|----------------------------|
| <b>AbsInterstitialListener mAbdl</b> | Abstract class of listener |

### Callback function returns:

- 1) Retrieve ad failed      onAdFail(int errcode);  
\***Note:** see [Table 2](#) in [6.3.2](#) for error code
- 2) Retrieve ad successfully      onAdReceive();
- 3) ad destroyed event      onAdDismissed();
- 4) ad impression event      onAdPresent();
- 5) ad click event      onAdClicked();

## 9.3 Pre-cache interstitial ad

### ● Interface Instruction:

**public void** fill();

Use the fill() to pre-cache ad in advance for faster loading the ad when using load().

**Suggestion:** Developers can use the `fill()` at the page before the ad showing page or use the `fill()` at least 4-5 seconds before using `load()`.

**\*Note:** Ad data will be cached in client device's memory. Since SDK only caches the image's URL address not the image data, the cache size is small.

## 9.4 Retrieve interstitial ad

- **Interface Instruction:**

`public void load ();`

**\*Note:** Please Set the listener of Interstitial Ads before loading the Ads.

## 9.5 Show interstitial ad

- **Interface Instruction:**

`public void show ();`

**\*Note:** Please use this interface in `onAdReceive()` (see [9.2](#)).

## 9.6 Close interstitial ad

- **Interface Instruction:**

`public void close ();`

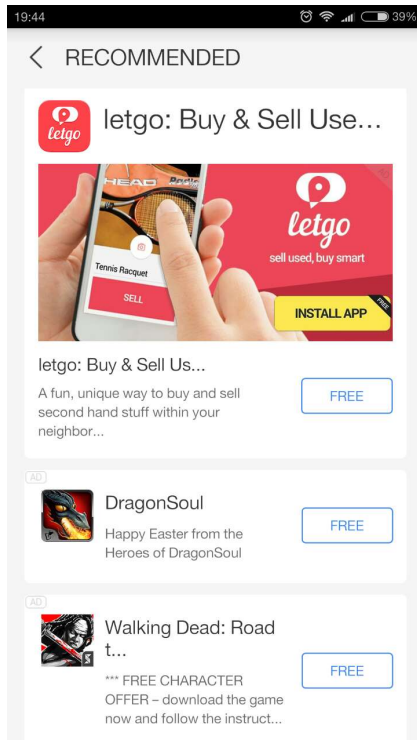
## 9.7 Destroy interstitial ad

- **Interface Instruction:**

`public void destroy ();`

# 10. Request advertising wall

Figure 4      A sample of advertising wall



Advertising wall is an encapsulated list Advertising (This is an Activity). For displaying the advertising wall, developers need to pass in the DAP placement ID when page jumping. Please take the below example for reference.

```
intent = new Intent
(ToolboxSampleMainActivity.this, OfferWallAct.class);

Bundle b = new Bundle();
b.putInt("pid", Your_DAP_placement_ID );

intent.putExtras(b);
startActivity(intent);
```

**\*Note:** `OfferWallAct.class` is the encapsulated activity class of advertising wall. Please fill in your DAP placement ID (see [3.2](#)), and please make sure the DAP placement ID had been registered in “offerwall” part during initialization (see [section 5](#)).

```
"offerwall": [
  {
    "pid": "xxxxx",
    "fbids": "xxxxxxxxx_xxxxxxxxxx"
  }
]
```