

IODClient Library
for Android
Version 1.0

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1. Overview

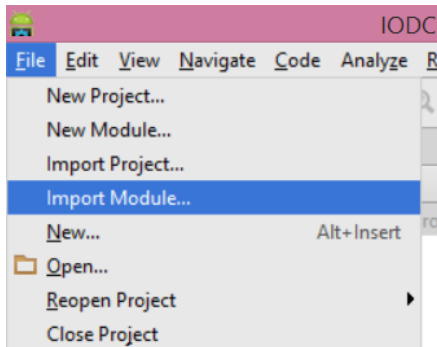
IODClient library for Android is a lightweight Java based API, which helps you easily integrate your Android app with HP IDOL OnDemand Services.

IODClient library requires a minimum Android API level 10.

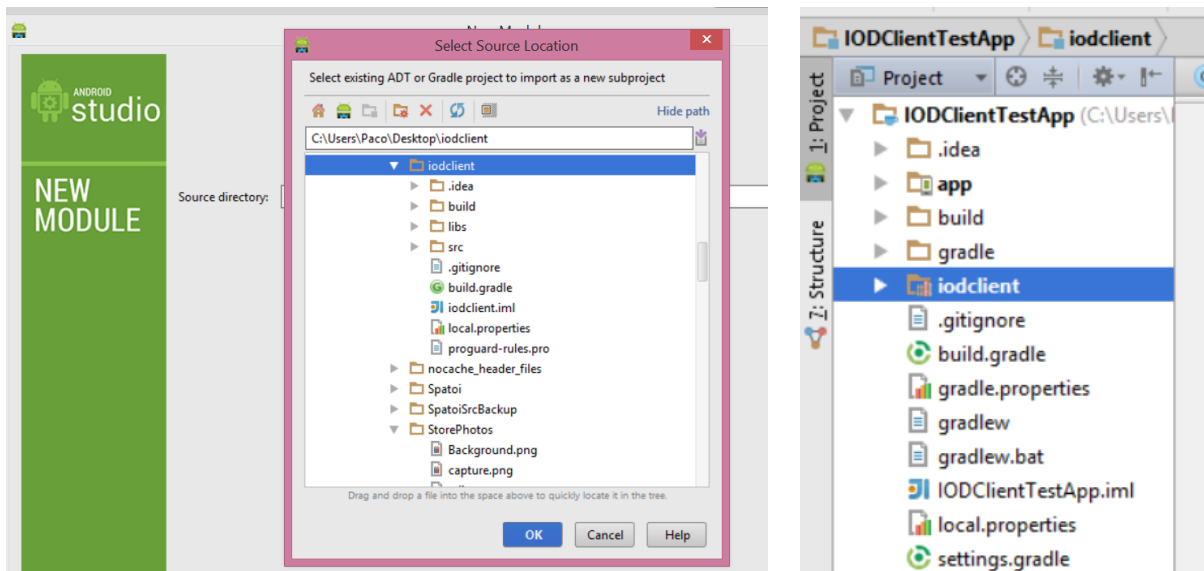
IODClient library uses the Apache httpmime-4.3.2 and httpcore-4.3.2 libraries. For your convenience, the library project included the httpmime-4.3.2.jar and httpcore-4.3.jar files. The dependent components are licensed under the Apache License 2.0. Please see the files called LICENSE.txt and NOTICE.txt for more information.

2. Integrate IODClient into Android project

- a) Download the IODClient library project for Android.
- b) Create a new or open an existing Android project
- c) Select the app main folder and click on the File menu then choose Import Module option.



- d) Browse to IODClient folder and click OK. The IODClient folder should be created into your project.



- e) Open the main project build.gradle and add packaging options and the dependency as follows:

```

android {
    packagingOptions {
        exclude 'META-INF/DEPENDENCIES'
        exclude 'META-INF/NOTICE'
        exclude 'META-INF/LICENSE'
        exclude 'META-INF/LICENSE.txt'
        exclude 'META-INF/NOTICE.txt'
        exclude 'META-INF/ASL2.0'
    }
}

dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
    compile project(':iodclient')
}

```

3. IODClient API reference

3.1. Constructors

3.1.1 IODClient(String apiKey, IIODClientCallback callback);

Description:

Creates and initializes an IODClient object

Parameters:

apiKey: your developer apikey.

callback: class that implements the IIODClientCallback interface.

Example code:

```

public class MyActivity extends Activity implements
    IIODClientCallback {

    String apiKey = "my-api-key";

    IODClient iodClient = new IODClient(my-api-key, this);

    @Override

    public void requestCompletedWithJobID(String response){ }
}

```

```

        @Override
        public void requestCompletedWithContent(String response){ }

        @Override
        public void onErrorOccurred(String errorMessage){ }
    }

```

3.1.2 IODClient(String apiKey, String version, IIODClientCallback callback);

Description:

Creates and initializes an IODClient object

Parameters:

apiKey: your developer apikey.

callback: class that implements the IIODClientCallback interface.

version: IDOL OnDemand API version. Currently it only supports version 1. Thus, the value is "v1".

Example code:

```

public class MyActivity extends Activity implements
    IIODClientCallback {

    String apiKey = "my-api-key";

    String ver = "v1";

    IODClient iodClient = new IODClient(my-api-key, ver, this);

    @Override
    public void requestCompletedWithJobID(String response){ }

    @Override
    public void requestCompletedWithContent(String response){ }

    @Override
    public void onErrorOccurred(String errorMessage){ }
}

```

3.2. GetRequest(Map<String,Object> params, String iodApp, REQ_MODE mode)

Description:

Sends a GET request to an IDOL OnDemand API.

Parameters:

params: a HashMap object containing key/value pair parameters to be sent to an IDOL OnDemand API, where the keys are the parameters of an IDOL OnDemand API.

Note:

In the case of a parameter type is an array<>, the key must be defined as “arrays” and the value must be a Map<String,String> object with the key is the parameter name and the values separated by commas “,”. E.g.:

```
Map<String, String> entity_array = new HashMap<String, String>();  
  
entity_array.put("entity_type", "people_eng,places_eng");  
params.put("arrays", entity_array);
```

iodApp: a string to identify an IDOL OnDemand API. E.g. “extractentities”. Current supported apps are listed in the IODApps class.

mode [REQ_MODE.SYNC | REQ_MODE.ASYNC]: specifies API call as Asynchronous or Synchronous.

Return: void.

Example code:

```
String iodApp = IODApps.ENTITY_EXTRACTION;  
Map<String,Object> params = new HashMap<String,Object>();  
params.put("url", "http://www.cnn.com");  
Map<String, String> entity_array = new HashMap<String, String>();  
entity_array.put("entity_type", "people_eng,places_eng");  
params.put("arrays", entity_array);  
iodClient.GetRequest(params, iodApp, IODClient.REQ_MODE.SYNC);
```

Response:

- If the mode is “ASYNC”, response will be returned via the requestCompletedWithJobID(String response) callback function.
- If the mode is “SYNC”, response will be returned via the requestCompletedWithContent(String response) callback function.
- If there is an error occurred, the error message will be sent via the onErrorOccurred(String errorMessage) callback function.

3.3. [PostRequest\(Map<String,Object> params, String iodApp, REQ_MODE mode\)](#)

Description:

Sends a POST request to an IDOL OnDemand API.

Parameters:

params: a HashMap object containing key/value pair parameters to be sent to an IDOL OnDemand API, where the keys are the parameters of an IDOL OnDemand API.

Note:

In the case of a parameter type is an array<>, the key must be defined as "arrays" and the value must be a Map<String,String> object with the key is the parameter name and the values separated by commas ",". E.g.:

```
Map<String, String> entity_array = new HashMap<String, String>();  
entity_array.put("entity_type", "people_eng,places_eng");  
params.put("arrays", entity_array);
```

iodApp: a string to identify an IDOL OnDemand API. E.g. "ocrdocument". Current supported apps are listed in the IODApps class.

mode [REQ_MODE.SYNC | REQ_MODE.ASYNC]: specifies API call as Asynchronous or Synchronous.

Return: void.

Example code:

```
String iodApp = IODApps.OCR_DOCUMENT;  
Map<String,Object> params = new HashMap<String,Object>();  
params.put("file", "full/path/filename.jpg");  
params.put("mode", "document_photo");  
iodClient.PostRequest(params, iodApp, IODClient.REQ_MODE.ASYNC);
```

Response:

- If the mode is "ASYNC", response will be returned via the requestCompletedWithJobID(String response) callback function.
- If the mode is "SYNC", response will be returned via the requestCompletedWithContent(String response) callback function.
- If there is an error occurred, the error message will be sent via the onErrorOccurred(String errorMessage) callback function.

3.4. [GetJobResult\(String jobId\)](#)

Description:

Sends a request to IDOL OnDemand to retrieve the content identified by the jobID.

Parameter:

jobID: the job ID returned from an IDOL OnDemand API upon an asynchronous call.

Response:

Response will be returned via the requestCompletedWithContent(String response)

Example code:

```
@Override
public void requestCompletedWithJobID(String response) {
    try {
        JSONObject mainObject = new JSONObject(response);
        if (!mainObject.isNull("jobID")) {
            jobID = mainObject.getString("jobID");
            iodClient.GetJobResult(jobID);
        }
    } catch (Exception ex) { }
}
```