**Materiall API User Guide**

**(IOS & Android)**

1. **Get recommended products for a product category.**

| **Parameter** | **Description** | **Required** |
| --- | --- | --- |
| clientId | The unique id of the client organization that is calling this API.  Ex:  Test env: blibli-test,  Production: blibli-client2 | Yes |
| userId | The unique id of the user at the site. | Yes |
| sessionId | The unique id of the user’s session at the site | Yes. |
| categoryId | The id of the product category that the user is browsing at the site. | Yes |
| count | The number of products to recommend. | No. Default 8. |
| page | The page number corresponds to the pagination implemented at the site. | Yes |
| pageType | Value has to be categoryPage  Ex: pageType=categoryPage | Yes |
| template | Indicates the template for response.  Ex: template=blibli | Yes |
| sortBy | Indicates the sorting type  Accepted values - Relevance, Price:asc, Price:desc, Rating:desc | No, default is Relevance |

**Interface**

**Ios:-**

Materiall.framework.**getRecommendedProductCategory**(clientId, userId, pageType, sessionId, template, page)

**Android:**

ProductRecommendationSearch productSearch = new ProductRecommendationSearch ();

productSearch.**getRecommendedProductCategory**(clientId, userId, pageType, sessionId, template, page);

**Response type for both successful/error requests -** Json Object as received from the server. Please refer to [Materiall APIs for Blibli](https://docs.google.com/document/d/1PXCJ51I-evJ31Ir_ozRsn2lyCG0siiH7/edit?usp=sharing&ouid=116361775831136894888&rtpof=true&sd=true) to know more about the response object.

**Example:**

**Ios:-**

This method we have to call before calling the API. In this method we are generating Authorization token, and this token is valid only for 20 seconds. Users pass the client Id with this method.

Materiall.framework.authorizationTokenGenerate(ClienID: "**blibli-client2**")

Users also can set the value of x-Request-ID in the header section also. Only Set the value this way

Materiall.framework.setXRequestID(value: "123")

Materiall.framework.setCount(value: 8)

if page type = 'categoryPage' then we need to set the value of category ID

Materiall.framework.setCategoryID(value: "54817")

If page type = 'searchPage' then we set the value of searchq. Other parameters remain the same.

Materiall.framework.setSearchQuery(value: "polycotton t shirt")

Materiall.framework.setSortBy(value: "Price:asc")

Materiall.framework.setFilter(value: "color\_matFilter:Red OR color\_matFilter:Blue")

Materiall.framework.getRecommendedProductCategory(clientId: "**blibli-client2**", userId: "xyz-xyz-xyz", pageType: "categoryPage", sessionId: "ses-xuz-abc", template: "blibli", page: 2, then: { result **in**

print(result)

})

**Android:**

///// if pageType=categoryPage then pass CategoryId or if pageType=searchPage then pass Searchq”

This method we have to call before calling the API. In this method we are generating Authorization token, and this token is valid only for 20 seconds. Users pass the client Id.

Users also can set the value of x-Request-ID in the header section also. Only Set the value this way

productRecommendationSearch1.setXRequestID(“123”);/////////

ProductRecommendationSearch productRecommendationSearch1 = new ProductRecommendationSearch();

productRecommendationSearch.setCount(8);

productRecommendationSearch.setSortBy("Relevance");

productRecommendationSearch.setCategoryId("54817”);

productRecommendationSearch.setSearchq("polycotton t shirt”);

productRecommendationSearch.setXRequestID(“123”);

productRecommendationSearch.setFilter("color\_matFilter:Red OR color\_matFilter:Blue");

JSONObject result = productRecommendationSearch1.getRecommendedProductCategory("**blibli-client2**", "xyz-xyz-xyz", "categoryPage", "ses-xuz-abc", "blibli", "2");

if (result != null) {

System.*out*.println("productCategoryresponse : " + result);

}

**b. Record user actions performed on a product listing**

| **Parameter** | **Description** | **Required** |
| --- | --- | --- |
| clientId | The unique id of the client organization that is calling this API.  Ex:  Test env: blibli-test,  Production: blibli-client2 | Yes |
| sessionId | The unique id of the user’s session at the site | Yes |
| categoryId | The id of the product category that the user is browsing at the site.  Applicable only when pageType = categoryPage | No  (Required when  pageType = categoryPage) |
| type | The type of the event corresponding to the user’s action at the site  Is one of  {seen, click, cart, order, removeFromCart, rate} corresponding to the user seeing (impression), clicking, carting ordering or removing from cart, | Yes |
| deviceType | Type of the device the user is using  Ex: mobile, tablet, desktop etc | Yes |
| deviceOS | OS being used by the user.  Ex: ios, android, windows, linux | Yes |
| browser | Browser being used by the user.  Ex: chrome, firefox, ie, opera etc | Yes |
| pageType | Type of the page  Ex:  categoryPage - Event happened in category browse page  pdp - Event happened in product details page  searchPage - Event happened in search results page  cartPage - Event in cart. Applicable for type=checkout and type=removeFromCart | Yes |
| searchq | Search query given by user  It is applicable only when pageType=searchPage | Yes. Only when pageType=searchPage |
| page | Page number in which the user is browsing | Yes |
| ratings | Rating given by the user in float.  Required only when type=rate | Yes. Only when type=rate |

**Interface :**

**Ios: -**

Materiall.framework.**recordUserActions**(parameter: productList!, clientID, userID, sessionId, type, deviceType, deviceOS, browser, pagetype , page)

**Android:**

ProductRecommendationSearch userActions= new ProductRecommendationSearch();

userActions.**recordUserActions**(userId, clientID, sessionId, type,deviceType, deviceOS, browser, pageType , page, productList);

**Response type for both successful/error requests -** Json Object as received from the server. Please refer to the [Materiall APIs for Blibli](https://docs.google.com/document/d/1PXCJ51I-evJ31Ir_ozRsn2lyCG0siiH7/edit?usp=sharing&ouid=116361775831136894888&rtpof=true&sd=true) to know more about the response object.

**Example -**

**Ios:**

**let** parameters: [String: **Any**] = [

"products": [

[

"id":"RAS-60191-00081-00003",

"sku":"RAS-60191-00081",

"merchantId":"RAS-60191",

"merchantname":"RAGGAKIDS",

"campaign\_id":"campaign\_CAMP-00553\_153736",

"position": 1

],

[

"id":"BLS-60040-58802-00002",

"sku":"BLS-60040-58802",

"merchantId":"BLS-60040",

"merchantname":"Bluelans",

"campaign\_id":"campaign\_CAMP-00553\_153736",

"position": 2

]

]

]

**let** productList = **try**? JSONSerialization.data(withJSONObject:parameters)

**guard** productList != **nil** **else** {

**return**

}

This method we have to call before calling the API. In this method we are generating Authorization token, and this token is valid only for 20 seconds. Users pass the client Id with this method.

Materiall.framework.authorizationTokenGenerate(ClienID: "blibli-test")

Users also can set the value of x-Request-ID in the header section also. Only Set the value this way

Materiall.framework.setXRequestID(value: "123")

Materiall.framework.setCategoryID(value: "54817")

Materiall.framework.setSearchQuery(value: "abc")

Materiall.framework.setRating(value: "123")

Materiall.framework.recordUserActions(parameter: productList!, clientID: "**blibli-client2**", userID: "xyz-xyz-xyz", sessionId: "ses-xuz-abc", type: "rate", deviceType: "desktop", deviceOS: "linux", browser: "Chrome", pagetype:"searchPage" , page: 3, then: {result **in**

print(result)

})

}

**Android:**

///// if pageType=categoryPage then pass CategoryId or if pageType=searchPage then pass Searchq”

This method we have to call before calling the API. In this method we are generating Authorization token, and this token is valid only for 20 seconds. Users pass the client Id.

Users also can set the value of x-Request-ID in the header section also. Only Set the value this way

productRecommendationSearch2.setXRequestID(“123”);/////////

ProductRecommendationSearch productRecommendationSearch2 = new ProductRecommendationSearch();

productRecommendationSearch.setXRequestID(“123”);

productRecommendationSearch.setCategoryId("54817");

productRecommendationSearch.setSearchq("Pakaian dresses");

productRecommendationSearch.setRatings(4.5f);

JSONObject productList = new JSONObject();

JSONArray jsonArray = new JSONArray();

JSONObject obj1 = new JSONObject();

JSONObject obj2 = new JSONObject();

try {

obj1.put("id", "RAS-60191-00081-00003");

obj2.put("id", "BLS-60040-58802-00002");

obj1.put("sku", "RAS-60191-00081");

obj2.put("sku", "BLS-60040-58802");

obj1.put("merchantId", "RAS-60191");

obj2.put("merchantId", "BLS-60040");

obj1.put("merchantname", "RAGGAKIDS");

obj2.put("merchantname", "Bluelans");

obj1.put("campaign\_id", "campaign\_CAMP-00553\_153736");

obj2.put("campaign\_id", "campaign\_CAMP-00553\_153736");

obj1.put("position", 1);

obj2.put("position", 2);

} catch (JSONException e) {

e.printStackTrace();

}

jsonArray.put(obj1);

jsonArray.put(obj2);

productList.put("products", jsonArray);

System.*out*.println("jsonObjectResponse : " + " " + productList);

JSONObject result = productRecommendationSearch2.recordUserActions("xyz-xyz-xyz", "rate", "**blibli-client2**", "ses-xuz-abc", "desktop", "linux", "Chrome","3", "searchPage", productList);

if (result != null) {

System.*out*.println("getRecordUserActionsResponse : " + result);

}

} catch (Exception e) {

e.printStackTrace();

}

Ios:

**How to add Materiall framework in Xcode.**

1. Click on Target

2. Then Select General tab

3. Then choose Framework, Libraries and Embedded content

4. click on plus (+) sign

5. Select and click Add other

6. Then select Materiall.framework Folder and choose (debug iPhone or debug iPhoneSimulator)

7. Then Click on Embed dropdown arrow and select embed & sign

After successfully adding the framework in Xcode. Then in ViewController class import the framework:

import Materiall

And initialize the config class of SDK.

Materiall.framework.environment = .development // <https://blibli-test.curiosearch.in/>

**Client id : blibli-client2**

Materiall.framework.environment = .production // <https://api.blibli.curiosearch.in/>

Client id : **blibli-client2**

Materiall.framework.environment = .QA (string: " <https://blibli-qa.curiosearch.in/>")!

Client id :  **blibli-test**

**Android:**

How to deploy **MateriallSDK** library into client application?

**1.** Add the **SDK/library file** MateriallSDK.aar to the application.

**2.** Include the below dependencies required by the library in the application’s gradle build file.

**dependencies** {

implementation(platform("com.squareup.okhttp3:okhttp-bom:4.9.1"))

implementation("com.squareup.okhttp3:okhttp")

implementation("com.squareup.okhttp3:logging-interceptor")

implementation 'com.squareup.retrofit2:converter-gson:2.4.0'

implementation 'com.squareup.retrofit2:converter-scalars:2.5.0'

}

**3.** Import

**Build Variants:**

The SDK has **debug, staging and release** build types, defined in the SDK Gradle build file.

The debug(Dev) build is set to <https://blibli-test.curiosearch.in/>

**Client id : blibli-client2**

The staging (Test) build is set to <https://blibli-qa.curiosearch.in/>

Client id :  **blibli-test**

The Release (Production) build is set to <https://api.blibli.curiosearch.in/>

Client id : **blibli-client2**