



Java developer – Core team
Developer test

Instructions

A new game called Fun Flowers is topping the download charts and the game developer is now looking to distribute their game outside of the Google Play appstore to increase their revenue. The game developer has therefore contacted Flexion, who have specialised in billing outside of the Google Play appstore, to provide them with the best possible billing coverage.

Since Fun Flowers can be distributed into multiple different game stores the developers have decided to create an interface called Integration. Their interface allows them to nicely separate the billing logic from their game code. Your mission is to use this interface to implement a billing Integration that connects to the Flexion platform.

A zip file containing the interface for an Integration can be downloaded here:

<http://dev.flexionmobile.com/recruitment/test/pluginapi.jar>

The methods that your Integration should support are “*buy*”, “*consume*” and “*getPurchases*”. *Buy* should perform a purchase, *consume* should set the status of a purchase to “consumed” and *getPurchases* should return a history of previous purchases and their consumption statuses.

Your integration should connect to the following REST API to carry out the requests:

<http://sandbox.flexionmobile.com/javachallenge/rest>

The specification for this API can be found below.

Testing

We have provided an `IntegrationTestRunner` class in the zipped package. It accepts an `Integration` which it will run a few select test cases on. You can use the `IntegrationTestRunner` to test your implementation before you submit it to Flexion. If you have any idea how it could be tested thoroughly please add it to the README file.

Submission

Please upload your submission to github (<https://github.com/>) and send us a link via e-mail.

API specification

Buy Item

Description

Call this method to buy one item. Items can be bought multiple times. A JSON representation of a Purchase will be returned if the call is successful.

| buy | |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method | POST |
| Url | http://sandbox.flexionmobile.com/javachallenge/rest/developer/{developerId}/buy/{itemId} |

Request Parameters

| Name | Data Type | Description |
|-------------|-----------|----------------------|
| developerId | String | Your name |
| itemId | String | Id of an item to buy |

Successful response

| | |
|-----------------------------------------------------------------------------------------------------------|-----|
| Response code | 200 |
| <pre>{ "consumed": "false", "id": "37536e7a-4e95-4862-89b5-c16e60b1f7d4", "itemId": "item1" }</pre> | |

Error response

| | |
|---------------|-----|
| Response code | 404 |
|---------------|-----|

That's not right

Get All Purchases

Description

Call this method to retrieve all previous purchases. Returns a list of Purchases in JSON format.

| getPurchases | |
|--------------|---------------------------------------------------------------------------------|
| Method | GET |
| Url | http://sandbox.flexionmobile.com/javachallenge/rest/developer/{developerId}/all |

Parameters:

| Name | Data Type | Description |
|-------------|-----------|-------------|
| developerId | String | Your name |

Successful response

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Response code | 200 |
| <pre>{ "purchases": [{ "consumed": "false", "id": "d408199f-ae57-44a5-80a3-1ab7aeab9a20", "itemId": "item1" }, { "consumed": "false", "id": "6a78bdac-23b5-4a92-94ec-bd037c8c2ad9", "itemId": "item2" }] }</pre> | |

Error response

| | |
|---------------|-----|
| Response code | 404 |
|---------------|-----|

| |
|------------------|
| That's not right |
|------------------|

Consume purchase

Description

Call this method to consume one purchase.

| consume | |
|---------|--------------------------------------------------------------------------------------------------|
| Method | POST |
| Url | http://sandbox.flexionmobile.com/javachallenge/rest/developer/{developerId}/consume/{purchaseId} |

Parameters:

| Name | Data Type | Description |
|-------------|-----------|-------------------------------|
| developerId | String | Your name |
| purchaseId | String | An ID of an existing Purchase |

Successful response

| | |
|---------------|-----|
| Response code | 200 |
| | |

Error response

| | |
|------------------|-----|
| Response code | 404 |
| That's not right | |