**SEO SDK for Java**

API User Document

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# 1 – Audience

This document is intended to all developers who are familiar with Java programming and who intend to use APIs from SEO-SDK to enhance Bazaarvoice SEO capabilities on their site.

This document is also a starting point for developers who want to extend the capabilities of SEO-SDK. Documents on API development can be found at <http://bazaarvoice.github.io/seo_sdk_java> or <https://github.com/bazaarvoice/seo_sdk_java/blob/master/docs/SEO-SDK_API_Developer_document.docx>

# 2 – Pre-requisites

Following are pre-requisites required for SEO-SDK to work:

* Java v1.5 and above.
* SEO-SDK library.

# 3 – Introduction

There are various SEO-SDK library jars available for download from the following location [http://bazaarvoice.github.io/seo\_sdk\_java](http://bazaarvoice.github.io/seo_sdk_java/) Functionally all the jars does the same work as it is supposed to but the way they are packaged is different for various environment and needs.

Bv-seo-sdk-{version}-jar-with-dependencies.jar has all the additional libraries packaged with the same jar and the user is not required to add additional libraries while implementation. This is the version that we recommend for most of the developers.

Bv-seo-sdk-{version}-osgi.jar is an OSGi bundle for environments which has OSGi installation available. Again this is similar to the above mentioned jar-with-dependencies. Only use this jar if your environment has OSGi installation facility.

Bv-seo-sdk-{version}.jar is a standard version of the library with no additional/supporting library packaged. Developers using this kind of library have to ensure their environments are set properly for additional libraries. Below are few lists of additional libraries and depending upon the environment additional library may need to be added:

* Apache-commons-lang3
* Slf4j-api
* Apache fluent-hc
* Apache velocity
* Apache commons-io

Once you have the seo-sdk library downloaded, add it to your classpath.

# 4 – Getting started

The simplest form to get seo-sdk to retrieve Bazaarvoice UI contents is by creating an instance of “BVManagedUIContent“ class and an instance of “BVParameters” class with all attributes populated and then invoke the BVManagedUIContent’s searchContent method by passing BVParameters instance. Below is the code snippet that gets the content.

*BVParameters bvParam = new BVParameters();*

*bvParam.setUserAgent(request.getHeader(“User-Agent”)); //taken from HTTPServletRequest*

*bvParam.setBaseURI("http://localhost:8080/Sample/Example-1.jsp");*

*bvParam.setPageURI("http://localhost:8080/Sample/Example-1.jsp?bvrrp=123");*

*bvParam.setContentType(ContentType.REVIEWS);*

*bvParam.setSubjectType(SubjectType.PRODUCT);*

*bvParam.setSubjectId("product1");*

*BVUIContent bvUIContent = new BVManagedUIContent();*

*String content = bvUIContent.getContent(bvParam);*

The output above will yield us “HTTP 404 Forbidden” since the settings are wrong, but having set valid values to bvParam and setting right values to BVConfiguration, will get you the proper contents.

# 5 – BVConfiguration

BVSdkConfiguration is an implementation of BVConfiguration interface below is the code snippet along with the BVUIContent and BVParamaters for this example.

*BVConfiguration bvConfig = new BVSdkConfiguration();*

*bvConfig.addProperty(BVClientConfig.SEO\_SDK\_ENABLED, "true");*

*bvConfig.addProperty(BVClientConfig.STAGING, "true");*

*bvConfig.addProperty(BVClientConfig.LOAD\_SEO\_FILES\_LOCALLY, "false");*

*bvConfig.addProperty(BVClientConfig.CLOUD\_KEY,"cldKey-a4501eb5be8bf8efda68f3f4ff7b3cf4");*

*bvConfig.addProperty(BVClientConfig.LOCAL\_SEO\_FILE\_ROOT, "/");*

*bvConfig.addProperty(BVClientConfig.BV\_ROOT\_FOLDER, "6574-en\_us");*

*BVParameters bvParam = new BVParameters();*

*bvParam.setUserAgent("google");*

*bvParam.setBaseURI("http://localhost:8080/Sample/Example-1.jsp");*

*bvParam.setPageURI("http://localhost:8080/Sample/Example-1.jsp?bvrrp=abcd");*

*bvParam.setContentType(ContentType.REVIEWS);*

*bvParam.setSubjectType(SubjectType.PRODUCT);*

*bvParam.setSubjectId("product1");*

*BVUIContent bvUIContent = new BVManagedUIContent(bvConfig);*

*String content = bvUIContent.searchContent(bvParam);*

NOTE: Starting from v2.0 it is also possible to make multiple configurations using *BVConfiguration bvConfig = new BVSdkConfiguration();* and appropriate values can bet set depending on the environment.

# 6 – BVParameters

BVParameters class helps in setting all the query parameters which is internally used in BVManagedUIContent class in retrieving the content.

The class has following attributes:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Type** | **Mandatory** |
| userAgent | String | Required |
| baseURI | String | Optional |
| pageURI | String | Optional |
| subjectId | String | Not required for C2013 and required for PRR implementation. |
| contentType | ContentType (Enum) | Not required for C2013 and required for PRR implementation. |
| subjectType | SubjectType (Enum) | Not required for C2013 and required for PRR implementation. |

**userAgent:** Browser’s User-Agent header information and there are various ways to obtain the information in java it can be obtained using ***request.getHeader("User-Agent")***where “request” is the HTTPServletRequest which is available both in servlet and jsp. Also the header information helps in determining if the content is for crawlers.

**baseURI:** It is the URL used in paginating through contents if pagination is available for the content. The URL can be absolute or relative or it could be just blank (null is allowed).

**pageURI:** Can be absolute or relative URL and contains complete information about the product, category and page number. This can also be a C2013 supported URL which can contain “bvpage” query parameters.

PRR example:

[*http://localhost:8080/Sample/Example-1.jsp*](http://localhost:8080/Sample/Example-1.jsp)

[*http://localhost:8080/Sample/Example-1.jsp?name=abcd&bvrrp=6484-en\_us/reviews/product/3/product-1.htm*](http://localhost:8080/Sample/Example-1.jsp?name=abcd&bvrrp=6484-en_us/reviews/product/3/product-1.htm)

*Sample/Example-1.jsp?name=abcd&bvrrp=6484-en\_us/reviews/product/3/product-1.htm*

*Sample/Example-1.jsp*

C2013 example:

/someproduct.jsp?bvpage=ctre/id3000001/stp

http://localhost:8080/Sample/Example-1.jsp?name=abcd&bvpage=ctre/id3000001/stp

**subjectId:** Identifier for the subject to get the content. This will be productId for reviews, questions and answer on SubjectType - product. This will be reviewId for SubjectType - Category.

**ContentType:** An enum type and gets the SEO content based on the content type that is set. Possible values include REVIEWS, REVIEWSPAGE, QUESTIONS, QUESTIONSPAGE, STORIES, STORIESPAGE, and UNIVERSAL.

**SubjectType:** An enum type and possible value can be PRODUCT, CATEGORY, ENTRY, & DETAIL.

# 7 – BVManagedUIContent

BVManagedUIContent class is an implementation of BVUIContent interface and an entry point class to get the required contents from bazaarvoice cloud or file based on the configuration.

BVManagedUIContent uses BVConfiguration (an interface for configuration) and BVParameters to retrieve the content which is described earlier.

BVUIContent has three important methods as mentioned below and each method signature takes BVParameters argument:

**BVUIContent.getContent:** Gets the complete SEO content either from local file or from cloud SEO based on the configuration that is used. The content includes AggregateRating and Reviews. Returns String representation of the content.

**BVUIContent.getAggregateRating:** Use this API only if you need to get the aggregate rating from local file or from cloud SEO. Also ensure that the site is configured and enabled for aggregate rating. Returns String representation of the content.

**BVUIContent.getReviews:** Use this API to get only review content from local file or from cloud SEO. Returns String representation of the content.

# 8 – Resources

Below are few links to refer for further information:

Release Notes: <https://github.com/bazaarvoice/seo_sdk_java/blob/master/docs/Release-Notes.docx>

API Developer Document: <https://github.com/bazaarvoice/seo_sdk_java/blob/master/docs/SEO-SDK_API_Developer_document.docx>

SDK Library release site: <http://bazaarvoice.github.io/seo_sdk_java>

Example: <https://github.com/bazaarvoice/seo_sdk_java/blob/master/example/Example-Myshco.jsp>