



WebMD Ignite Education V3 API

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The WebMD Ignite Education Content V3 API is a RESTful API service that will support internal product design and delivery while also enabling clients and partners to access Ignite Education content to create dynamic and innovative consumer health engagement solutions.

This documentation will be iterative as new services are added to the Ignite Education Content solution.





Ignite Education Content Basics

The API will only return the content resources associated with a client's license. Content is typically licensed by Source (HealthSheets, Ignite Education Clinical Videos, Exit-Writer Discharge Instructions, etc.).

Detailed tables in the Appendix provide detailed information about each content source, content type ID and associated metadata. One table provides information for a typical clinical license and use case; the second for a typical consumer license and use case. A third table provides detailed language codes by content (Appendix - page XX).

Token and Endpoint URL

Below are the staging and production URLs for tokens and endpoints. The client should use the URL per the REST API staging or production credentials.

Token URL:

Production URL: <https://identity.krames.com/connect/token>

Endpoint URL

Production URL: <https://api.krames.com/>

Content Variations

Each content resource has a variety of attributes. Some describe variants of a resource such as Version or Language. The Content ID does not change with these variants.

- Version (Same Content ID)
- Language (Same Content ID)

Content resources in different Media types (document or video) also have different Content IDs.

- Media (Different Content ID)

Video content

Videos: The request for the streaming media format includes the URL to the video in the content delivery network (CDN) and the video transcript. The URL can be used in the video player of the client's choice.

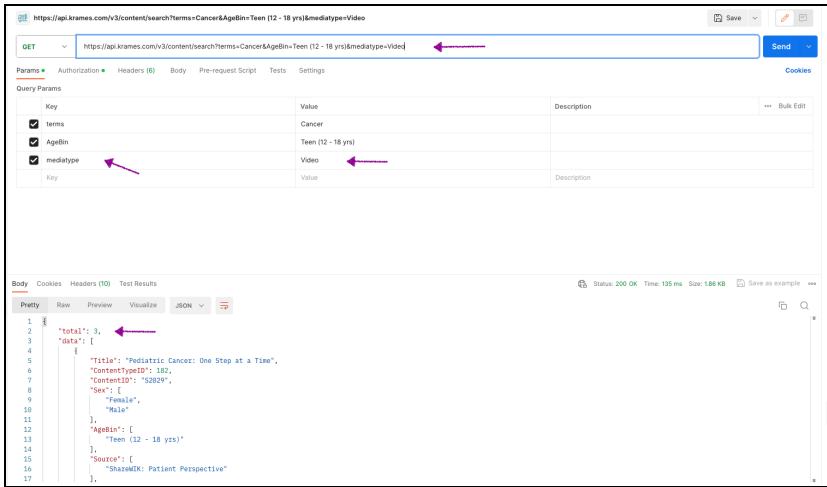
Video HealthSheet: Clients can use the Video HealthSheet to print information for a consumer or patient. The consumer can then scan the QR code or use the short link to access the video. If a client licenses both Videos and Video HealthSheets, both resources can be accessed through the API.

Example of API request where mediatype = video:

[https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen\(12-18yrs\)&mediatype=Video](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen(12-18yrs)&mediatype=Video)

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Example of QR code video within client app or website:



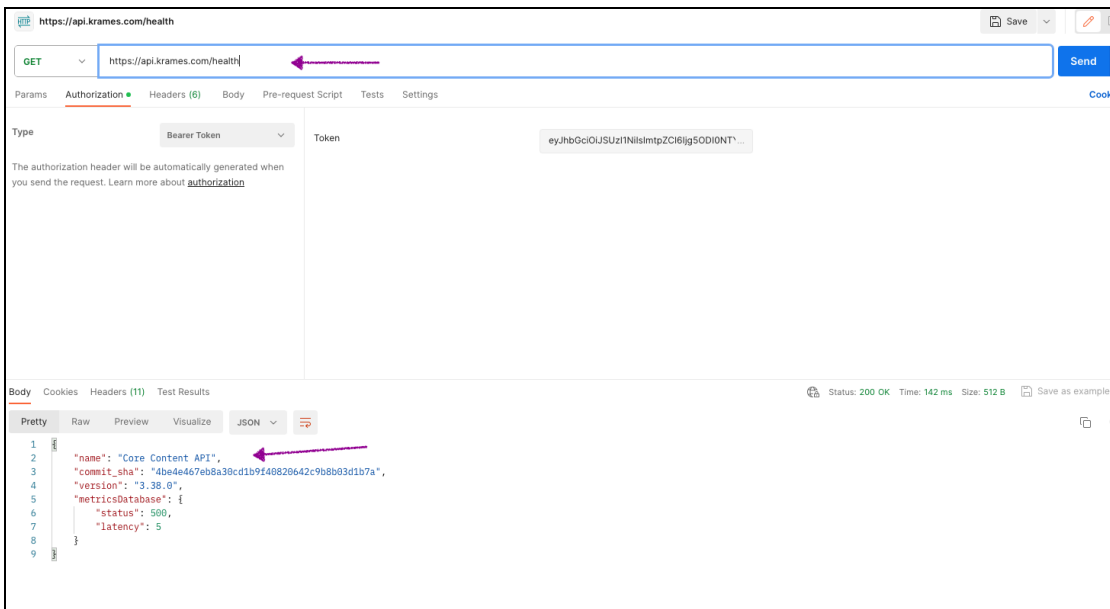
Content Versioning

A version key will be generated and returned in the JSON response when retrieving content. By default, the current content version will be returned via the API, when no version is specified. Search results do not contain version information; the search index always contains the latest version of the content.

API Request to check the content version and API health:

https://api.krames.com/health

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Content Source

Ignite Education content is designed for two general use cases:

1. integration into a clinical application and workflow, and,
2. integration into a consumer-facing application.

Detailed tables in the Appendix provide an overview of the content resources available. Each content resource is identified by a Content Type ID (numeric code) and a Source which is the text description of the Content Type ID.

Note: The specific content sources available via the API is determined by a **client license**. If the content type is not included in the client license, it will not be returned through search or get content requests.

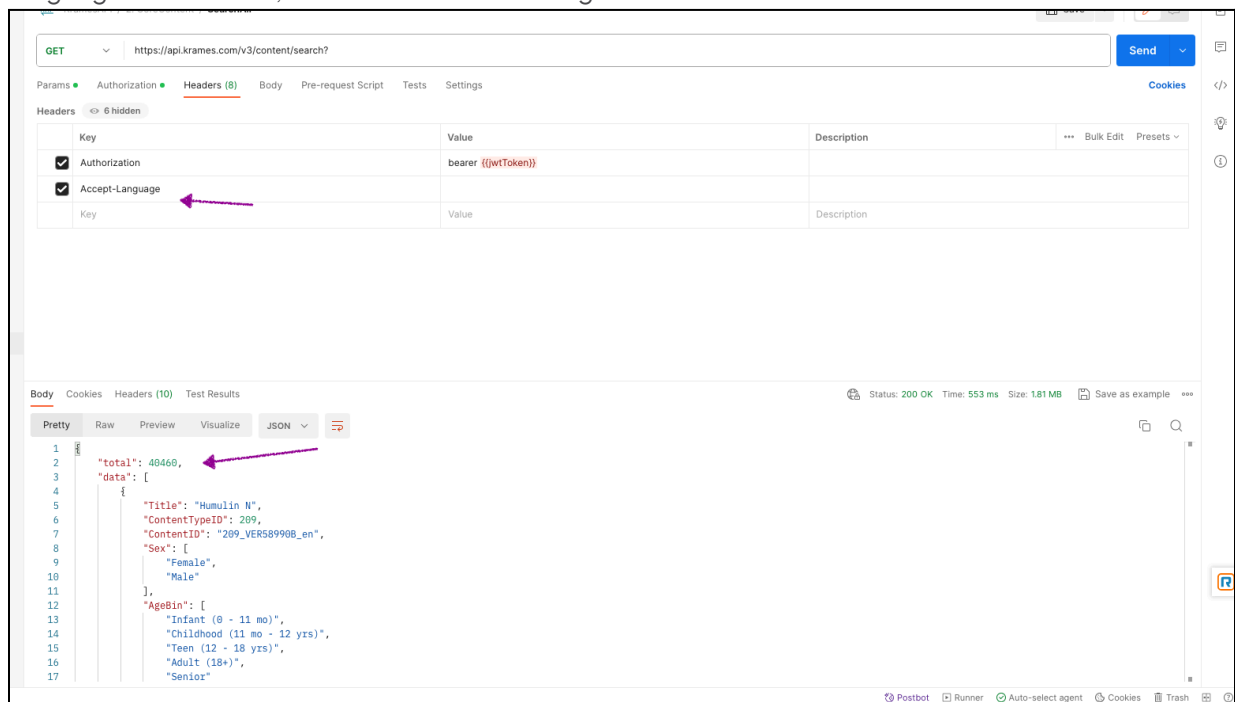
Languages Supported

Language is a required attribute of any content item. All API endpoints utilize an HTTP `accepts-language` header, AND a querystring parameter for language, these will default to `en` if unspecified. The value of the query string parameter `language` will take precedence over the `accept-language` header.

This will pull all the English articles

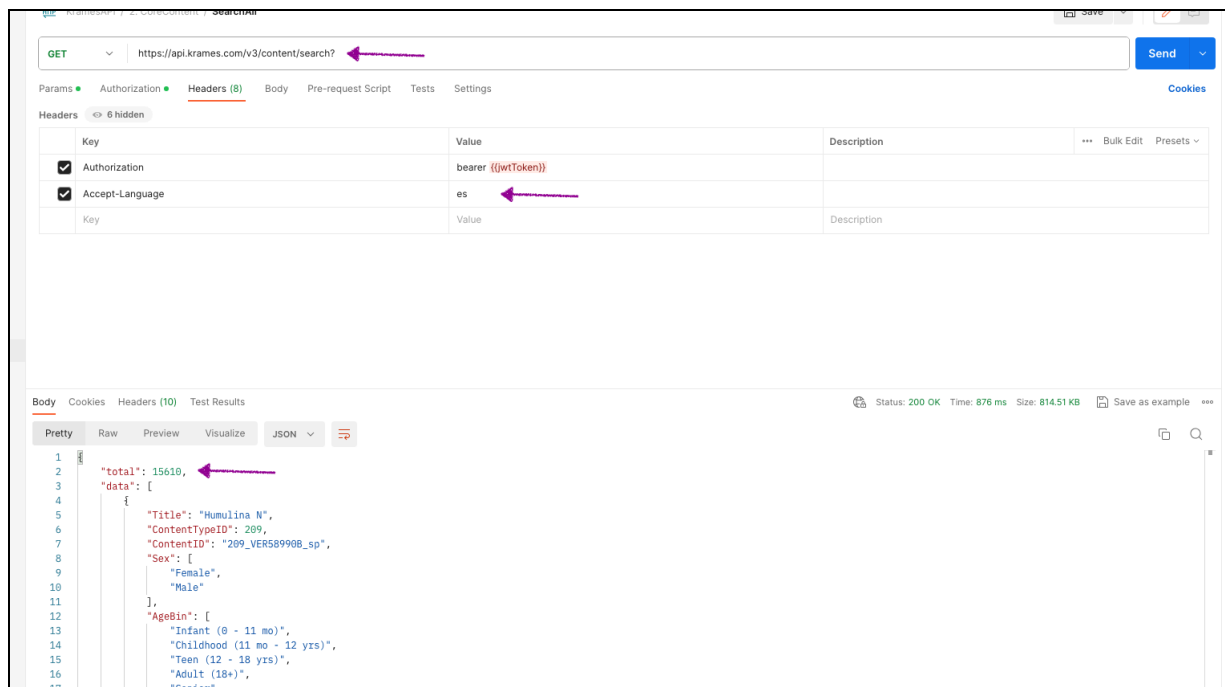
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Accept-Language – en or blank, this will retrieve all the English articles under the license.



Accept-Language – es, this will retrieve all the Spanish articles under the license.





<https://api.krames.com/v3/content/82-116092en>

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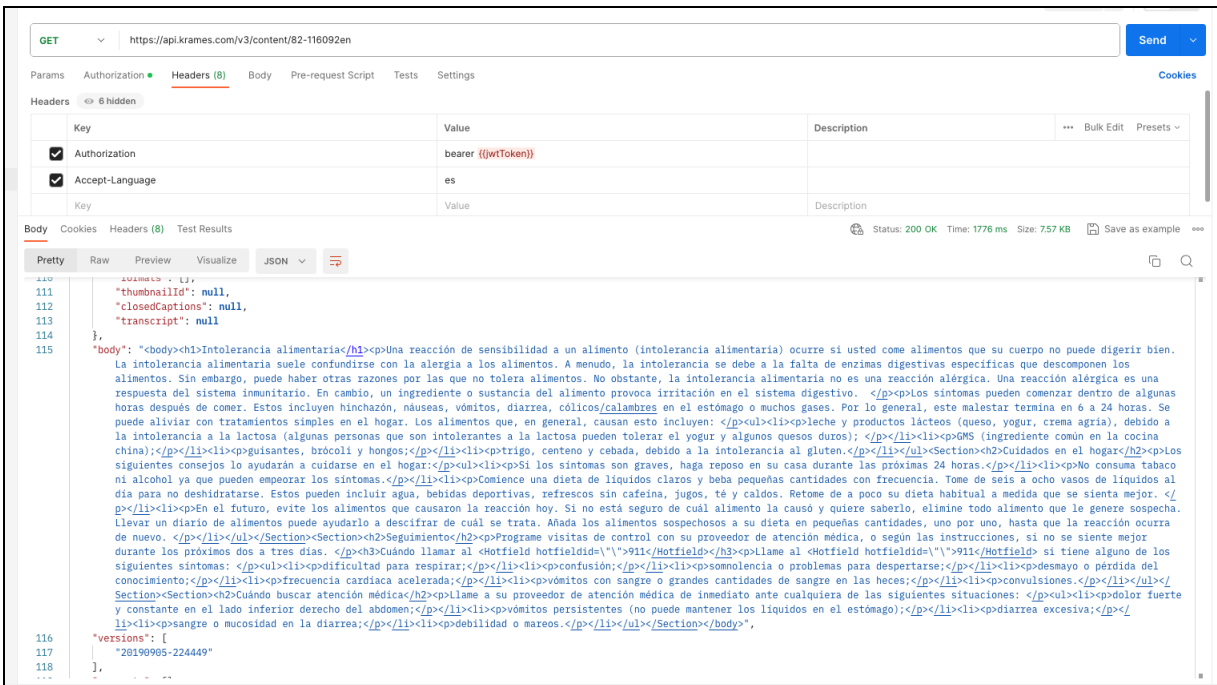


Table 3 in the Appendix provides an overview of the content and the languages supported. Ignite Education uses the ISO 639-1 Code standards for language abbreviations, and ISO 639-2 for languages that are unavailable in ISO 639-1.

When using the GET content endpoint, this language parameter will be used to retrieve the document in the language the parameter specifies, if it is available. When calling the Search endpoint with a language parameter in this way, this will search Ignite Education content that is available in that language. So, any terms present in a search performed in this manner will need to also be in the same language that was specified.

Segmented Content

Segmented content enables a client to request a specific section of a document to display or to enable a client to control the navigation within a segmented document. Segments have been defined for a small set of content assets from the Consumer Health Library. Within this content type, standard segments have been defined and can be identified. See Table 4 in the Appendix for detailed information.

Endpoint Base URL

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The content endpoints described below should use this base URL:

Production URL: <https://api.krames.com/>

Requests to these endpoints require authorization. Authorization should be sent in a header with the key “Authorization”, and the value should be “bearer <your token from the identity server>”.

Production environments

We recommend completing all development against the Ignite Education API in our production environment.

Authentication

To retrieve a bearer token, an authorization request should be made to our identity server using:

<https://identity.krames.com/connect/token>

This authorization request has the following parameters: (Replace client_id and client_secret values with the values provided to you).

The screenshot shows a REST client interface for a POST request to `https://identity.krames.com/connect/token`. The request body is form-urlencoded with the following parameters:

Key	Value	Description
<input checked="" type="checkbox"/> client_id	[REDACTED]	
<input checked="" type="checkbox"/> client_secret	[REDACTED]	
<input checked="" type="checkbox"/> grant_type	client_credentials	
<input checked="" type="checkbox"/> scope	proxy_api.read	

The response body is JSON, showing the following fields:

```
1  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZW50L3N1bWUiLCJ1eWciOiJ0bm90cnVzIiwiaWF0IjoiMjAyMjA0MjE0MjE0Lm50LnVzIn0",
2  "expires_in": 3600,
3  "token_type": "Bearer",
4  "scope": "proxy_api.read"
```

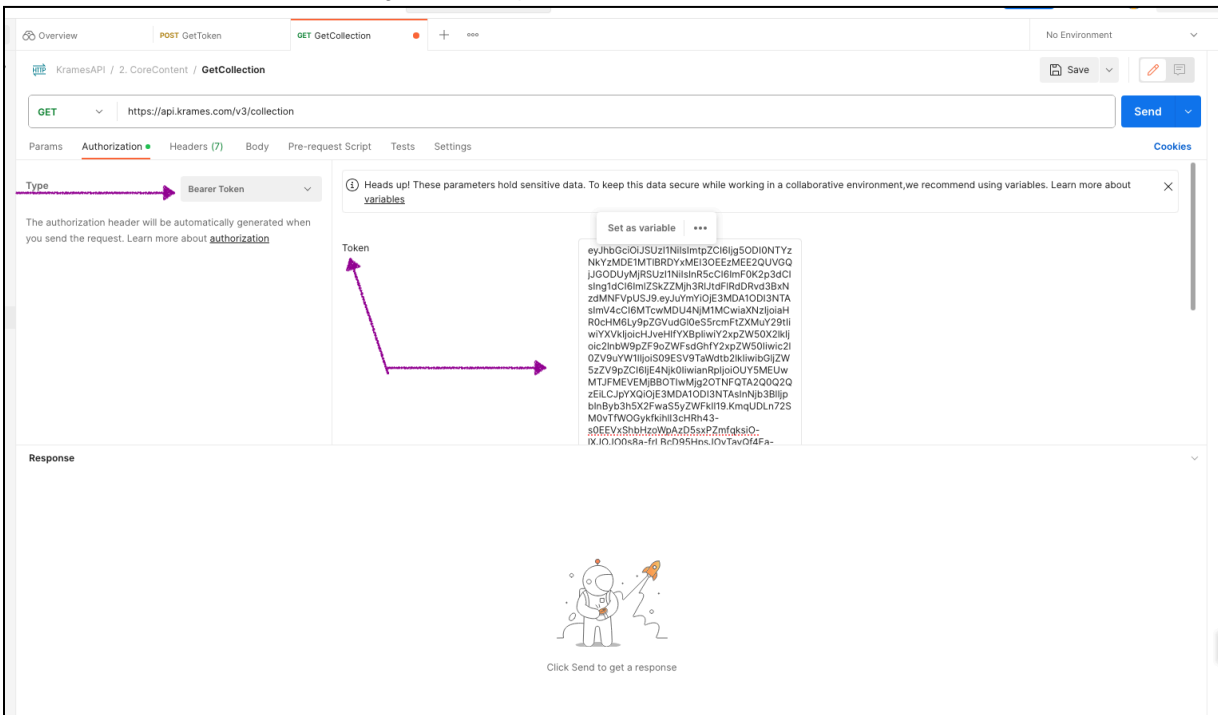
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Token section of POSTMAN or any other API platform.



ListLicensedContentTypes

Returns a distinct list of Content Types assigned to the client's license.

https://api.krames.com/{client_name}/Content.svc/ListLicensedContentTypes

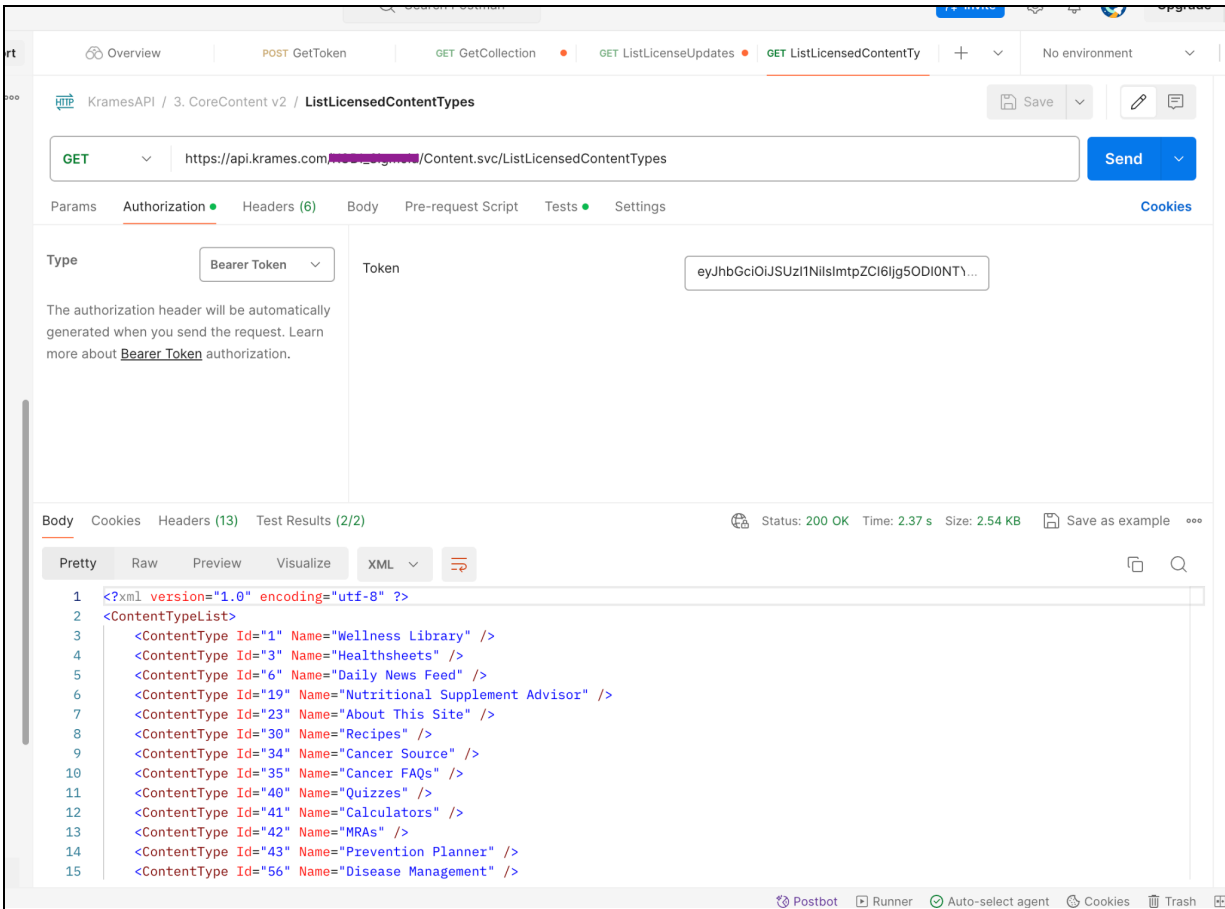
client_name - This is the username for the API credentials. If it doesn't work with the username, please reach out to the Ignite Education team.

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ListLicenseUpdates

Return a list of content that has been added to or deleted from a license, and licensed content that was updated, after a given date.

`https://api.krames.com/{client_name}/Content.svc/ListLicenseUpdates?xmlRequest=<LicenseUpdateRequest StartDate="2024-02-15" IncludeBlocked="false" />`

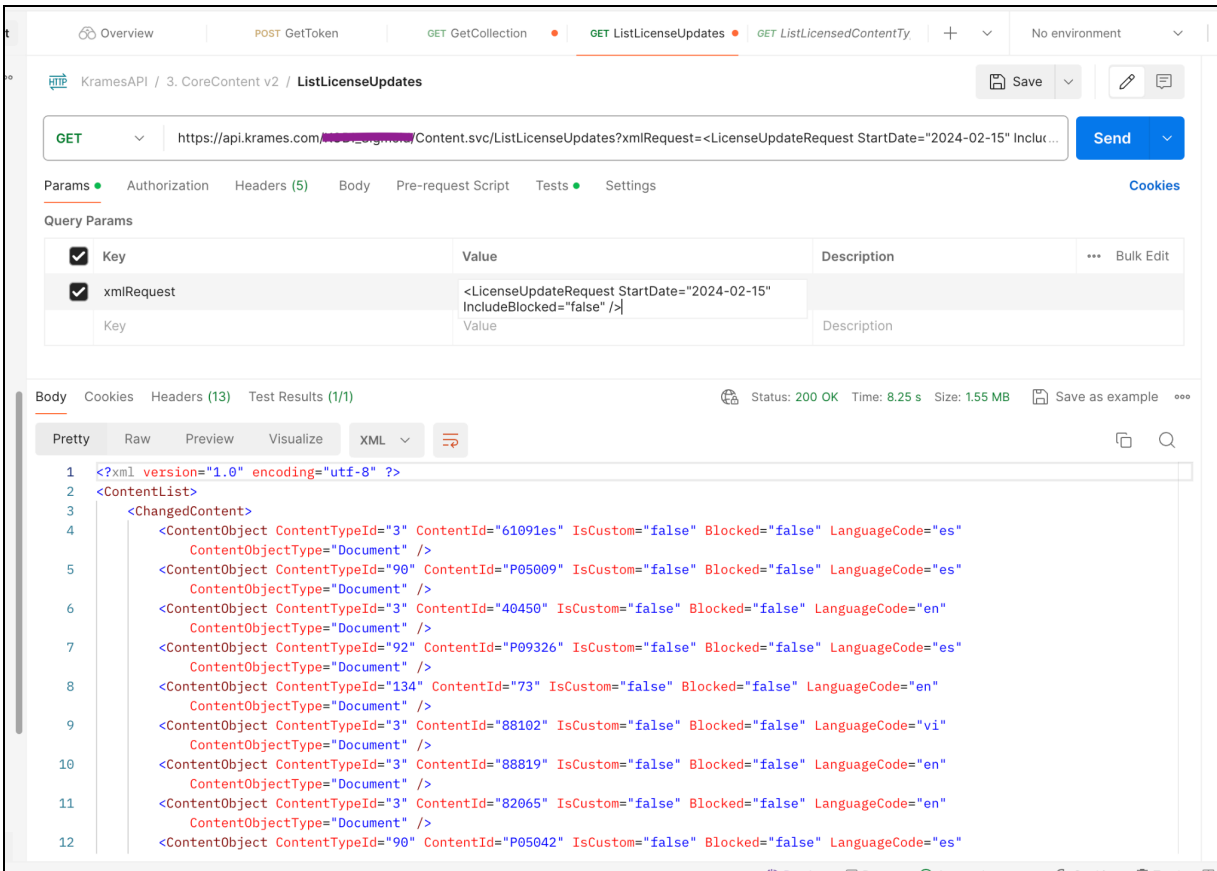
client_name - This is the username for the API credentials. If it doesn't work with the username, please reach out to the Ignite Education team.

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Browse-based navigation

There are two categorization options when building browser-based navigation with Ignite Education content.

Serviceline Hierarchy: Servicelines are a type of metadata applied to content. It Defines the clinical service line and organizes resources into a browsable hierarchy.

- Contains up to 3 hierarchical levels. For example,
 - Adult
 - Adult\Asthma
 - Adult\Asthma\Asthma
 - Adult\Asthma\Asthma, Attack

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- Adult\Asthma\Asthma, Exercise
- Pediatrics
- Pediatrics\Adolescent Medicine
- Pediatrics\Adolescent Medicine\Eating Disorders
- Pediatrics\Adolescent Medicine\Growth And Development
- Pediatrics\Adolescent Medicine\Safety,Firearms

Collection Hierarchy: Collections are groups of content that can be licensed for client use. It defines groupings of content resources based on some legacy WebMD Ignite content sources. This can also be used to mimic the structure of the consumer health library.



Serviceline Hierarchy

There is a single endpoint that can be used to retrieve the Serviceline hierarchy from the API; this endpoint will return all 3 levels of the hierarchy in JSON format.

When utilizing this hierarchy information using the search endpoint to retrieve documents that belong to a particular node in the hierarchy, you should pass the path attribute of the node to the search using the `serviceline` parameter.

Example: To retrieve all the documents located in the `Adult\Asthma` node, I would pass that path to the search like this:

Serviceline Path

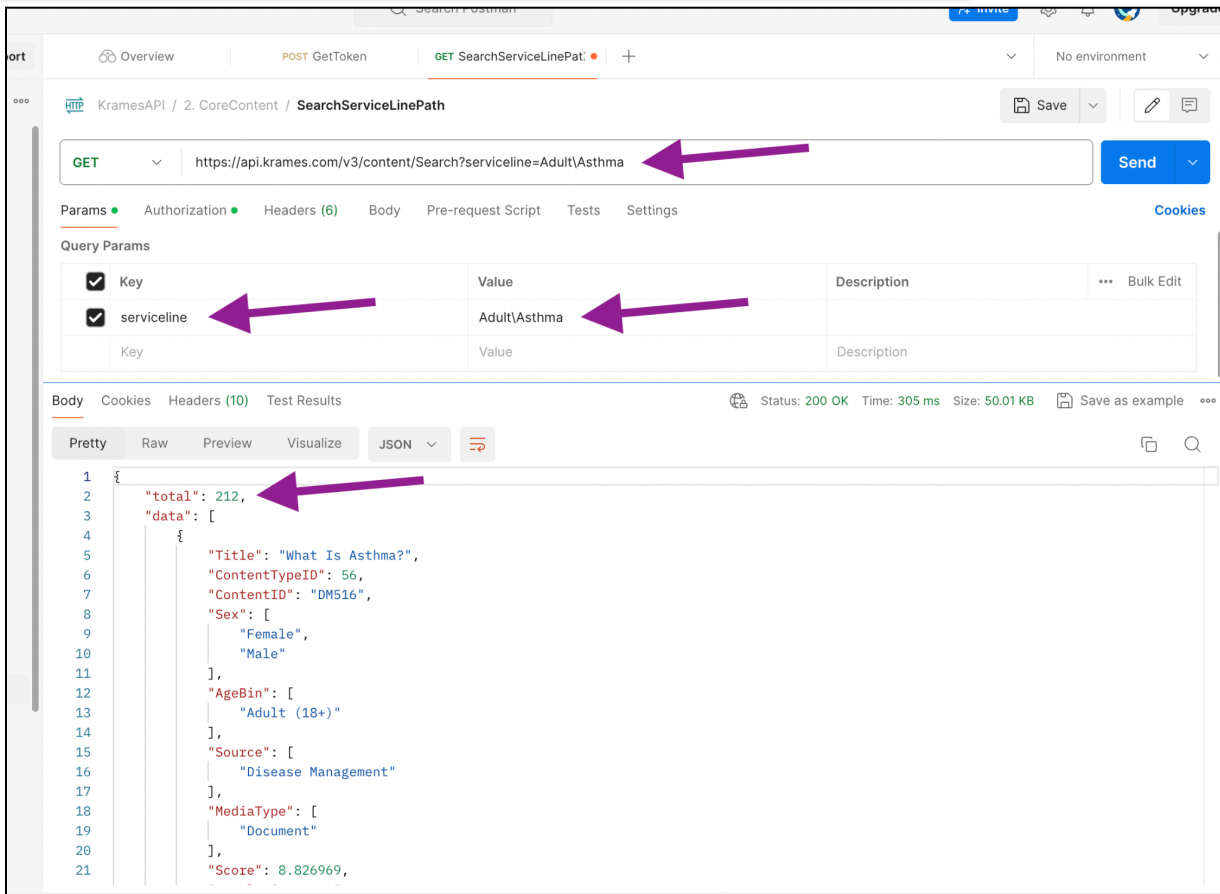
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GET /v3/content/Search?serviceline=Adult\Adolescent%20Medicine



The screenshot shows a REST client interface with the following details:

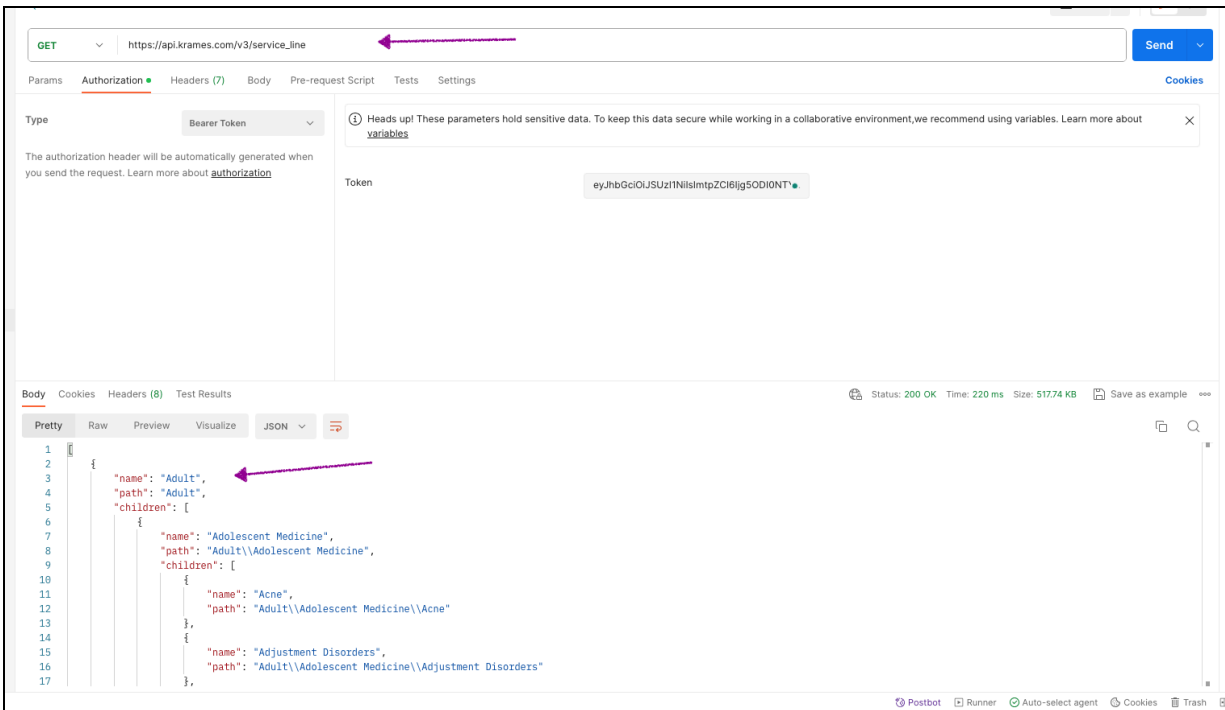
- Request:** GET https://api.krames.com/v3/content/Search?serviceline=Adult\Asthma
- Query Params:**

Key	Value	Description
serviceline	Adult\Asthma	
- Response:** Status: 200 OK, Time: 305 ms, Size: 50.01 KB
- JSON Body:**

```
1 {
2   "total": 212,
3   "data": [
4     {
5       "Title": "What Is Asthma?",
6       "ContentTypeID": 56,
7       "ContentID": "DMS16",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Adult (18+)"
14      ],
15      "Source": [
16        "Disease Management"
17      ],
18      "MediaType": [
19        "Document"
20      ],
21      "Score": 8.826969,
```

Serviceline:

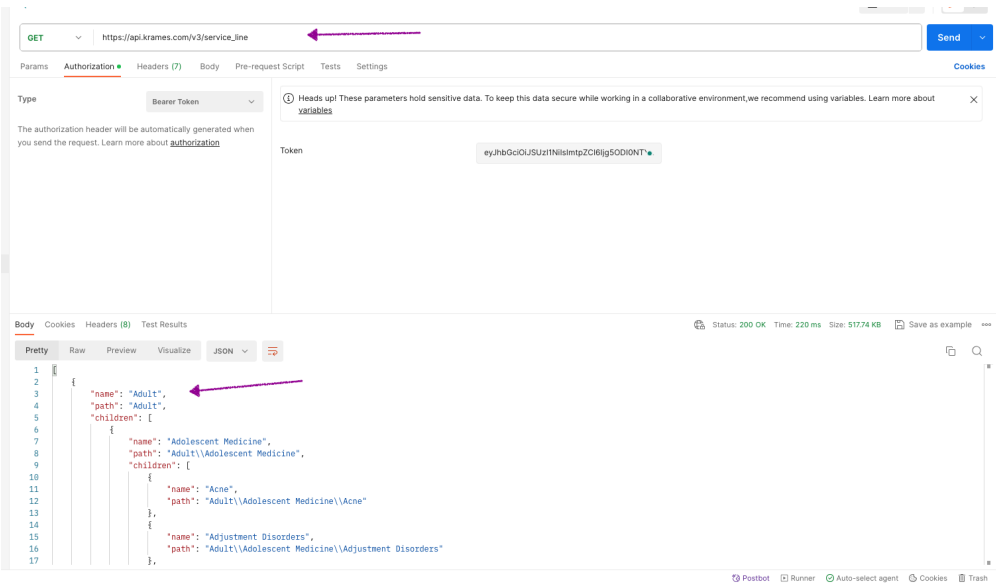
https://api.krames.com/v3/service_line



NOTE: Path values in JSON may need to be unescaped.

Please see the below screenshot for the API request to retrieve serviceline in JSON format

Technical Specifications

Resource – GET	https://api.krames.com/v3/service_line
Description	<p>An API endpoint that returns the entire serviceline hierarchy in JSON format.</p>
POSTMAN – API Request	 <pre> 1 { 2 "name": "Adult", 3 "path": "Adult", 4 "children": [5 { 6 "name": "Adolescent Medicine", 7 "path": "Adult\\Adolescent Medicine", 8 "children": [9 { 10 "name": "Acne", 11 "path": "Adult\\Adolescent Medicine\\Acne" 12 }, 13 { 14 "name": "Adjustment Disorders", 15 "path": "Adult\\Adolescent Medicine\\Adjustment Disorders" 16 } 17] 18 } 19] 20 } </pre>
Parameters	<p>This endpoint has no parameters.</p>

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Return Values

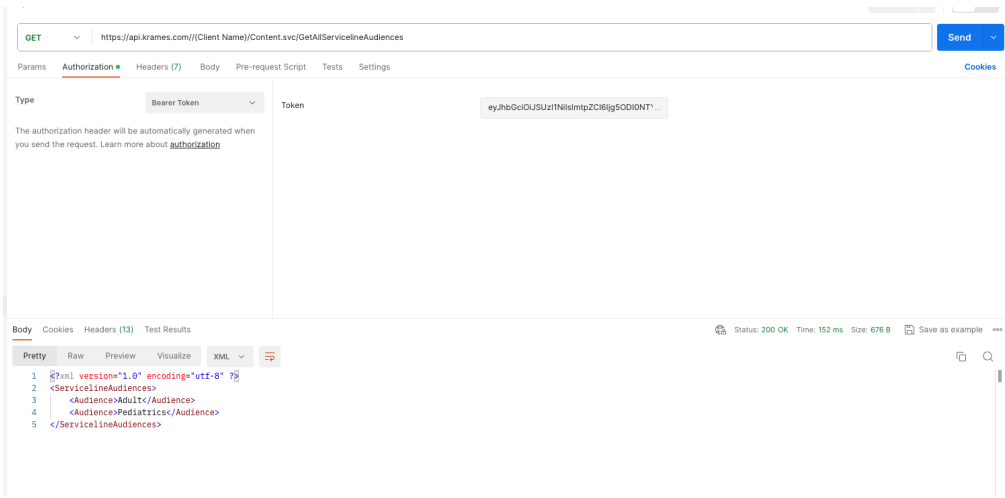
200 Success

```
[
  {
    "name": "Adult",
    "path": "Adult",
    "children": [
      {
        "name": "Adolescent Medicine",
        "path": "Adult\\Adolescent Medicine",
        "children": [
          {
            "name": "Acne",
            "path": "Adult\\Adolescent Medicine\\Acne"
          },
          {
            "name": "Adjustment Disorders",
            "path": "Adult\\Adolescent Medicine\\Adjustment Disorders"
          },
          {
            "name": "Adolescent Medicine",
            "path": "Adult\\Adolescent Medicine\\Adolescent Medicine"
          },
          ...
        ]
      },
      ...
    ]
  }
]
```

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Resource – GET	https://api.krames.com/{Client Name}/Content.svc/GetAllServiceLineAudiences
Description	An API endpoint that returns the main folders under a serviceline in JSON format.
POSTMAN – API Request	
Parameters	This endpoint has no parameters.
Return Values	<pre><?xml version="1.0" encoding="utf-8" ?> <ServiceLineAudiences> <Audience>Adult</Audience> <Audience>Pediatrics</Audience> </ServiceLineAudiences></pre>

Collection Hierarchies

There are two endpoints that can be used to retrieve the Collection hierarchies from the API. One is for retrieving the top-level Collections in JSON format, and the second is for retrieving the details of that collection (full collection hierarchy) in JSON format.

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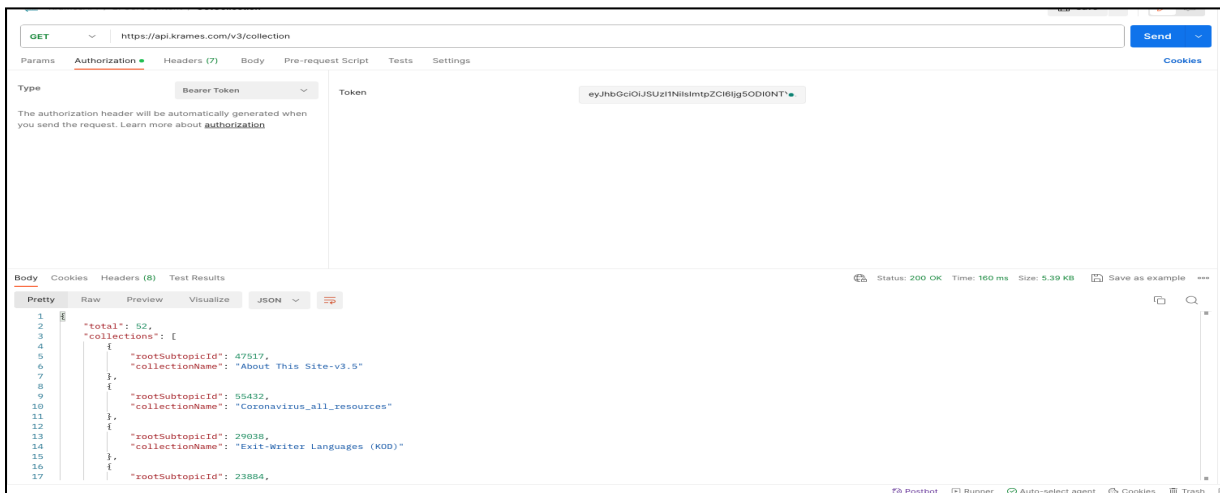


Use the search endpoint to retrieve documents that belong to a particular node in the hierarchy, construct a path using the names of the nodes in the hierarchy path you want to retrieve documents for, and pass that path to the search using the `collectionPath` parameter.

There are two types of collection: Standard Collection and Dynamic Collection

Standard Collection: Can contain multiple content types and are broken down into subtopics

GET - <https://api.krames.com/v3/collection>

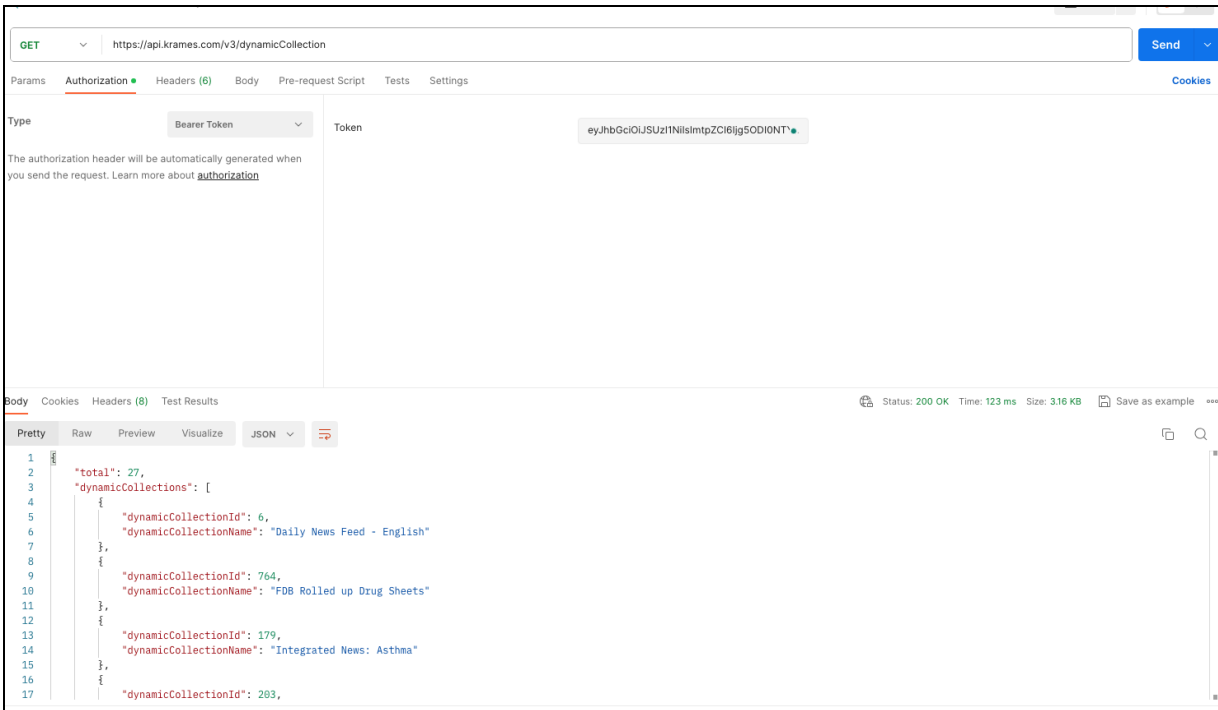


Dynamic Collection: It contains only one type of content, like 138 for Videos, or 203 – contentTypeId) for ASHP Drug Sheets, or 6 for HealthDay News. They are automatically updated when new content is added.

GET - <https://api.krames.com/v3/dynamicCollection>

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Example: To retrieve all the documents/articles located in the `Exit-WriterED\Diagnosis\Allergy` node, use the following type of request:

GET

`https://api.krames.com/v3/content/search?collectionPath=ExitWriterED\Diagnosis\Allergy`

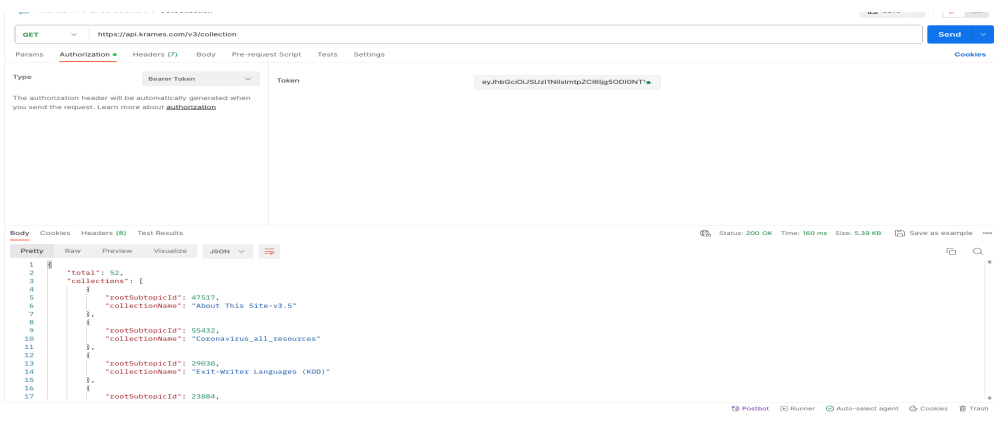
NOTE: Path values in JSON may need to be unescaped.

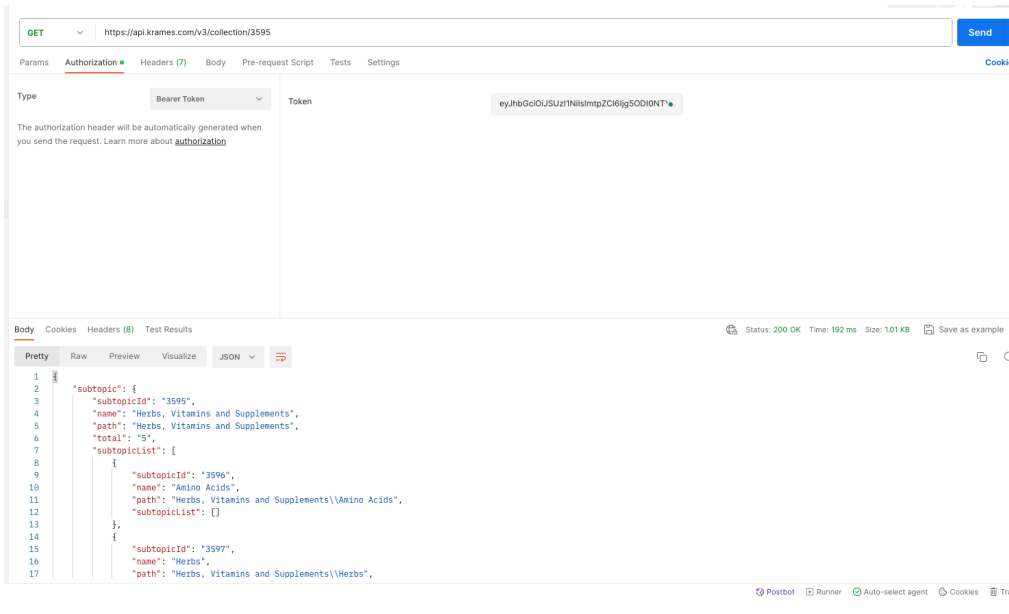
Please see the screenshot below for this API request.

Resource	GET - https://api.krames.com/v3/collection
Description	Retrieves the collections that are available in your license in JSON format.

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POSTMAN - API Call	
Parameters	None
Return Values	<pre> 200 Success { "total": 58, "collections": [{ "rootSubtopicId": 47517, "collectionName": "About This Site-v3.5" }, { "rootSubtopicId": 55432, "collectionName": "Coronavirus_all_resources" }, ...] } </pre>

	<pre>500 { errors: [<String>] }</pre>
Resource	GET https://api.krames.com/v3/collection/{subtopicId}
Description	Retrieves the collections that are available subtopicid under a collection in your license
Parameters	subtopicId: one of the rootSubtopicIds from the call to the /v3/collection endpoint.
POSTMAN – API Call	
Return Values	<pre>200 Success { "subtopic": {</pre>

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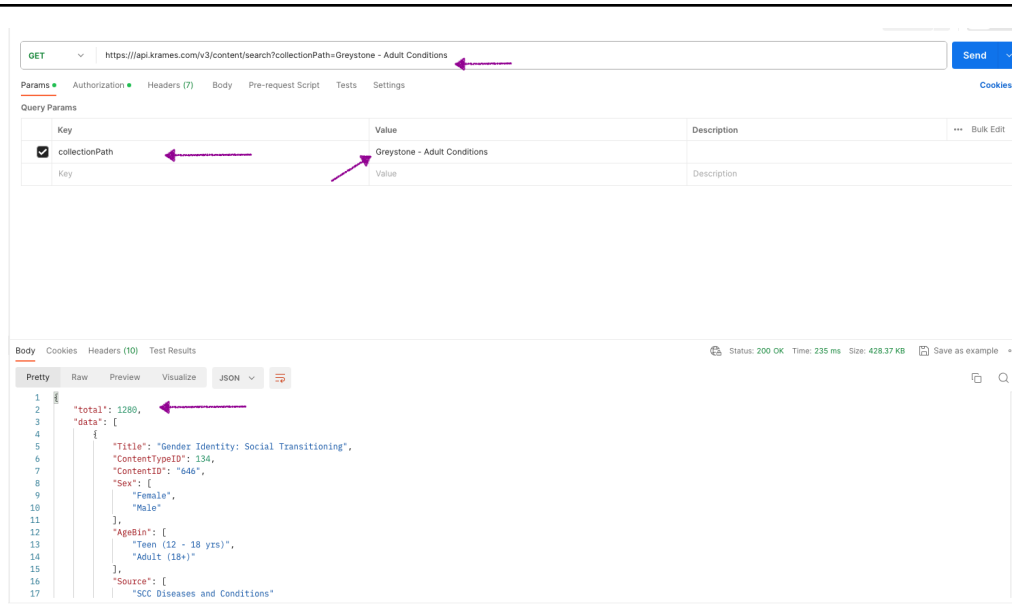

```

"subtopicId": "3595",
"name": "Herbs, Vitamins and Supplements",
"path": "Herbs, Vitamins and Supplements",
"total": "5",
"subtopicList": [
  {
    "subtopicId": "3596",
    "name": "Amino Acids",
    "path": "Herbs, Vitamins and Supplements\\Amino Acids",
    "subtopicList": []
  },
  ...
]
}
500
{
  errors: [<String>]
}

```

Resource	GET https://api.krames.com/v3/content/search?collectionPath={{collectionPath}}
Description	An API endpoint that returns the entire number of articles under a Collection hierarchy in JSON format in your license.
Parameters	{{collectionPath}}

POSTMAN – API Request



GET https://api.krames.com/v3/content/search/collectionPath=Greystone - Adult Conditions

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

Key	Value	Description
<input checked="" type="checkbox"/> collectionPath	Greystone - Adult Conditions	
Key	Value	Description

Body Cookies Headers (10) Test Results Status: 200 OK Time: 235 ms Size: 428.37 KB Save as example

```

1 {
2   "total": 1280,
3   "data": [
4     {
5       "Title": "Gender Identity: Social Transitioning",
6       "ContentTypeID": 134,
7       "ContentID": "646",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Teen (12 - 18 yrs)",
14        "Adult (18+)"
15      ],
16      "Source": [
17        "SCC Diseases and Conditions"
18      ]
19    }
20  ]
21 }
  
```

Return Values

200 Success

```

[
  {
    "total": 11,
    "data": [
      {
        "Title": "Food Sensitivity",
        "ContentTypeID": 82,
        "ContentID": "116092en",
        "Sex": [
          "Female",
          "Male"
        ],
        "AgeBin": [
  
```

```
"Infant (0 - 11 mo)",  
"Childhood (11 mo - 12 yrs)",  
"Teen (12 - 18 yrs)",  
"Adult (18+)",  
"Senior"  
],  
"Source": [  
  "Exit Writer Discharge Instructions"  
],  
"MediaType": [  
  "Document"  
],  
"Score": 9.780883,  
"PopularityScore": 0  
},  
{  
  "Title": "Anaphylaxis",  
  "ContentTypeID": 82,  
  "ContentID": "115719en",  
  "Sex": [  
    "Female",  
    "Male"  
  ],  
  "AgeBin": [  
    "Teen (12 - 18 yrs)",  
    "Adult (18+)",  
    "Senior"  
  ],  
}
```

```

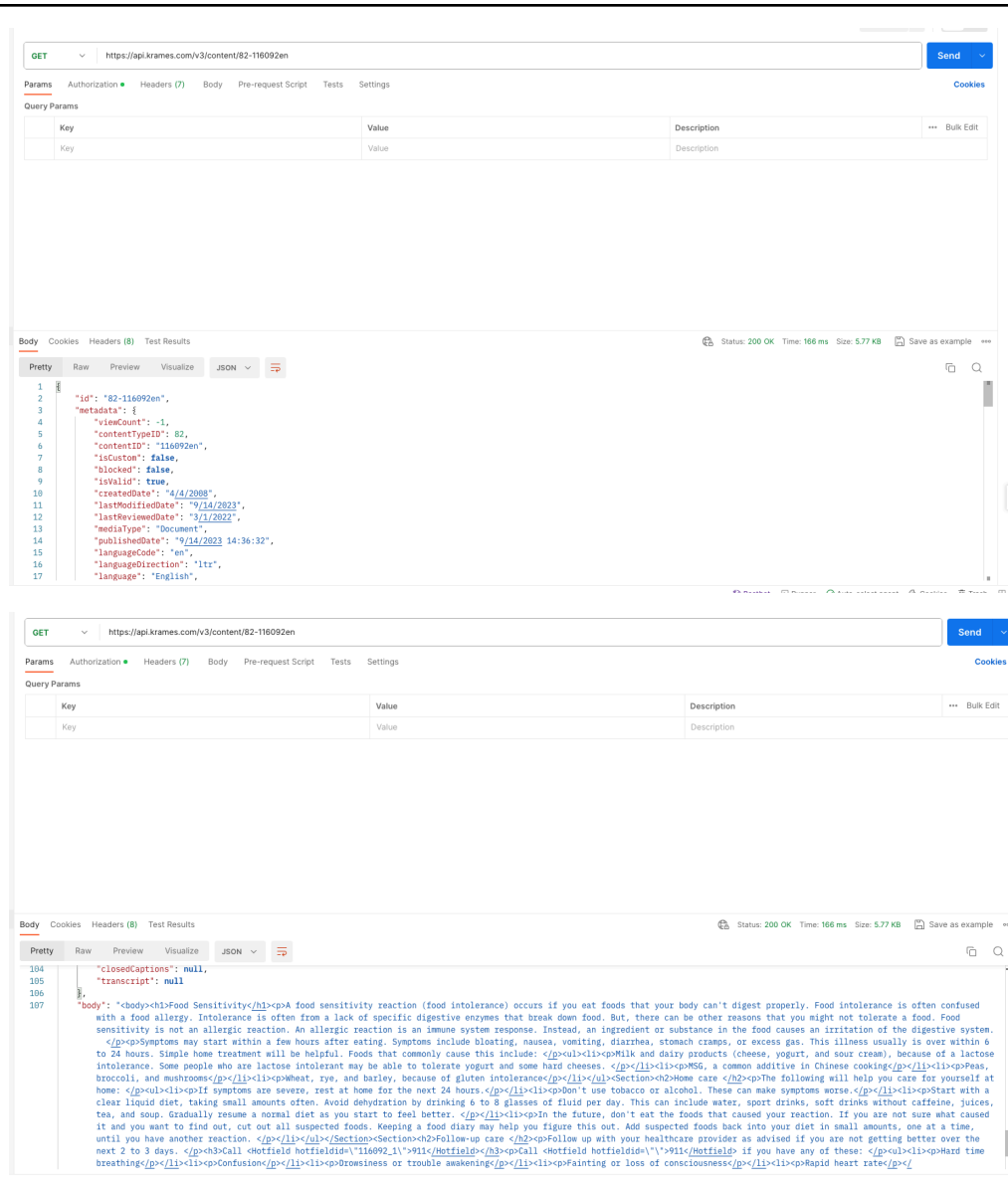
    "Source": [
      "Exit Writer Discharge Instructions"
    ],
    "MediaType": [
      "Document"
    ],
    "Score": 9.179846,
    "PopularityScore": 0
  },
  ...
]
500
{
  errors: [<String>]
}
}

```

Resource	GET https://api.krames.com/v3/content/82-116092en
Description	An API endpoint that returns the specific articles under a collection in JSON format.
Parameters	None



POSTMAN - API Request



The screenshot displays two sequential API requests in Postman. Both requests are GET requests to the URL `https://api.krames.com/v3/content/82-116092en`.

Request 1: The response body is shown in JSON format. The status is 200 OK, with a time of 166 ms and a size of 5.77 KB. The JSON response includes metadata such as `viewCount`, `contentTypeID`, `contentID`, `isCustom`, `isLocked`, `isValid`, `createdDate`, `lastModifiedDate`, `lastReviewedDate`, `mediaType`, `publishedDate`, `languageCode`, `languageDirection`, and `language`.

```

1 {
2   "id": "82-116092en",
3   "metadata": {
4     "viewCount": 1,
5     "contentTypeID": 82,
6     "contentID": "116092en",
7     "isCustom": false,
8     "isLocked": false,
9     "isValid": true,
10    "createdDate": "4/4/2088",
11    "lastModifiedDate": "9/14/2023",
12    "lastReviewedDate": "9/11/2022",
13    "mediaType": "Document",
14    "publishedDate": "9/14/2023 14:36:32",
15    "languageCode": "en",
16    "languageDirection": "ltr",
17    "language": "English",

```

Request 2: The response body is shown in HTML format. The status is 200 OK, with a time of 166 ms and a size of 5.77 KB. The HTML response contains a JSON object with `closedCaptions` and `transcript` set to null, followed by a detailed body of text regarding food sensitivity and intolerance.

```

104 "closedCaptions": null,
105 "transcript": null
106 }
107
108 "body": "<body><h1>Food Sensitivity</h1><p>A food sensitivity reaction (food intolerance) occurs if you eat foods that your body can't digest properly. Food intolerance is often confused with a food allergy. Intolerance is often from a lack of specific digestive enzymes that break down food. But, there can be other reasons that you might not tolerate a food. Food sensitivity is not an allergic reaction. An allergic reaction is an immune system response. Instead, an ingredient or substance in the food causes an irritation of the digestive system.

```

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Return Values	200 Success
	<pre>[{ "id": "82-116092en", "metadata": { "viewCount": 1, "contentTypeID": 82, "contentID": "116092en", "isCustom": false, "blocked": false, "isValid": true, "createdDate": "4/4/2008", "lastModifiedDate": "3/5/2022", "lastReviewedDate": "3/1/2022", "mediaType": "Document", "publishedDate": "3/5/2022 19:31:00", "languageCode": "en", "languageDirection": "ltr", "language": "English", "regularTitle": "Food Sensitivity", "nativeLanguageTitle": "Food Sensitivity", "invertedTitle": "", "blurb": "<p>A food sensitivity reaction (food intolerance) occurs if you eat foods that your body cannot digest properly. Food intolerance is often confused with a food allergy. Intolerance is from a lack of specific digestive enzymes. However, this is not an allergic reaction. Read on to learn more. </p>", "keywords": [</pre>

```

    },
    ...
  ]
}
500
{
  errors: [<String>]
}
}

```

Resource	GET https://api.krames.com/v3/content/82-116092en
Description	An API endpoint that returns the specific articles under a collection in JSON format for a Spanish article
Header	Accept-Language - es
Return Values	<p>200 Success</p> <pre> [{ "id": "82-116092en", "metadata": { "viewCount": 1, "contentTypeID": 82, "contentID": "116092en", "isCustom": false, "blocked": false, "isValid": true, "createdDate": "4/4/2008", </pre>

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```

"lastModifiedDate": "3/5/2022",
"lastReviewedDate": "3/1/2022",
"mediaType": "Document",
"publishedDate": "3/5/2022 19:31:00",
"languageCode": "en",
"languageDirection": "ltr",
"language": "English",
"regularTitle": "Food Sensitivity",
"nativeLanguageTitle": "Food Sensitivity",
"invertedTitle": "",

```

```

"blurb": "<p>A food sensitivity reaction (food intolerance) occurs if you eat food
s that your body cannot digest properly. Food intolerance is often confused with a
food allergy. Intolerance is from a lack of specific digestive enzymes. However, thi
s is not an allergic reaction. Read on to learn more. </p>",

```

```

"keywords": [
  ],
  ...
]

```

```
500
```

```

{
  errors: [<String>]
}
}

```

Search Content

Two search options: Term and Aggregates

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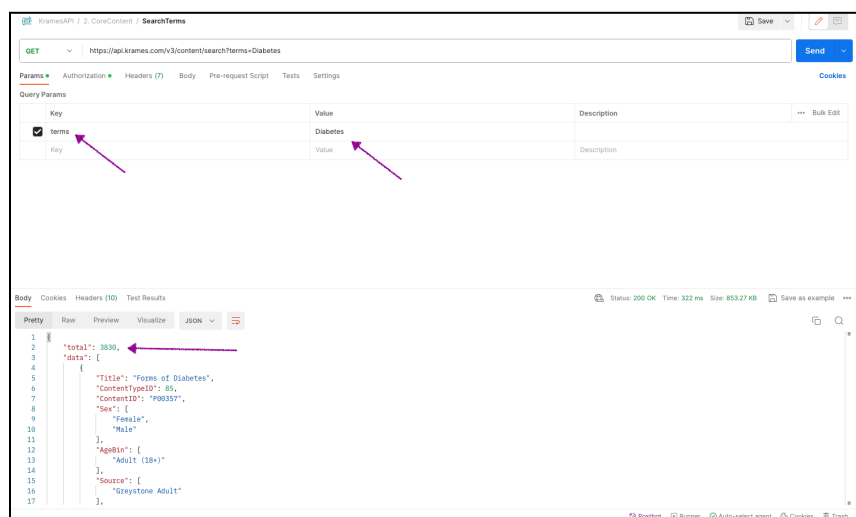
All Ignite Education content is tagged with metadata. The metadata is a list of key/value pairs. See the table above for the metadata associated with each content type.

Term Search

Searching by terms uses a full-text search over text fields like Title, Body, and Keywords. The Term search uses stemming, partial word matching, and synonyms.

Terms Search Examples for Query Parameters:

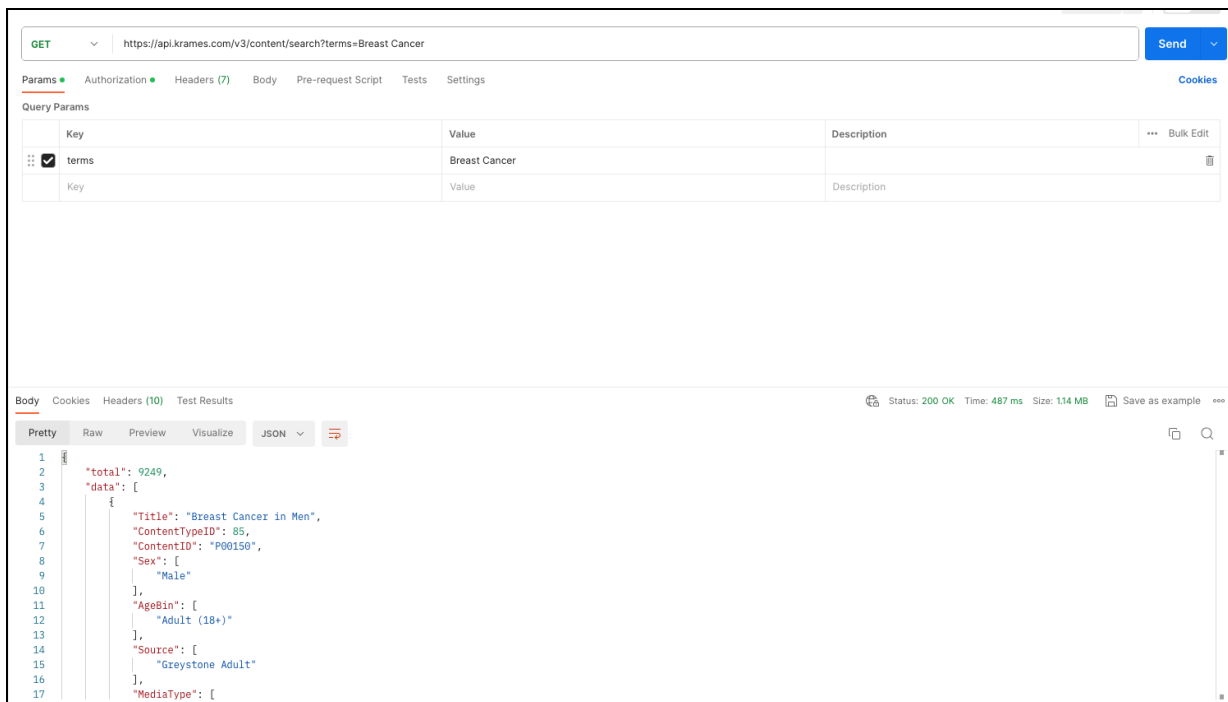
1. terms = Diabetes
There are 1982 articles for this license that contain the term diabetes in the Title, body, and keywords.
<https://api.krames.com/v3/content/search?terms=Diabetes>



2. terms = Breast Cancer
There are 299 articles for this license which consist of the term Breast Cancer in Title, body and keywords.

Query Parameters:
terms = Breast Cancer

<https://api.krames.com/v3/content/search?terms=Breast Cancer>



3. terms=Bladder Cancer

Query Parameters:

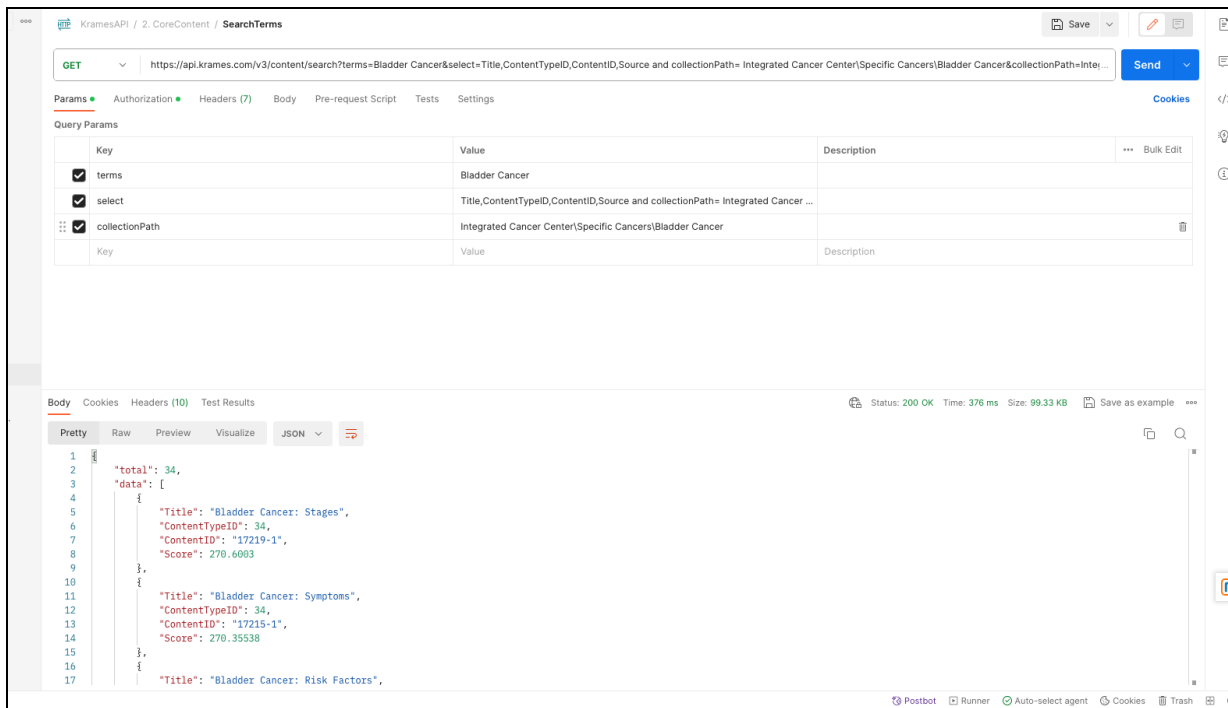
terms=Bladder Cancer

select = Title,ContentTypeID,ContentID,Source and collectionPath= Integrated Cancer Center\Specific Cancers\Bladder Cancer

collectionPath = Integrated Cancer Center\Specific Cancers\Bladder Cancer

There are 34 articles for this license which consist of the term Bladder Cancer and collectionPath= Integrated Cancer Center\Specific Cancers\Bladder Cancer in Title, body and keywords. This is more specific search to find articles under a collection folder

<https://api.krames.com/v3/content/search?terms=Bladder Cancer&select=Title,ContentTypeID,ContentID,Source and collectionPath= Integrated Cancer Center\Specific Cancers\Bladder Cancer&collectionPath=Integrated Cancer Center\Specific Cancers\Bladder Cancer>



4. terms = sore throat

Query Params:

terms = sore throat

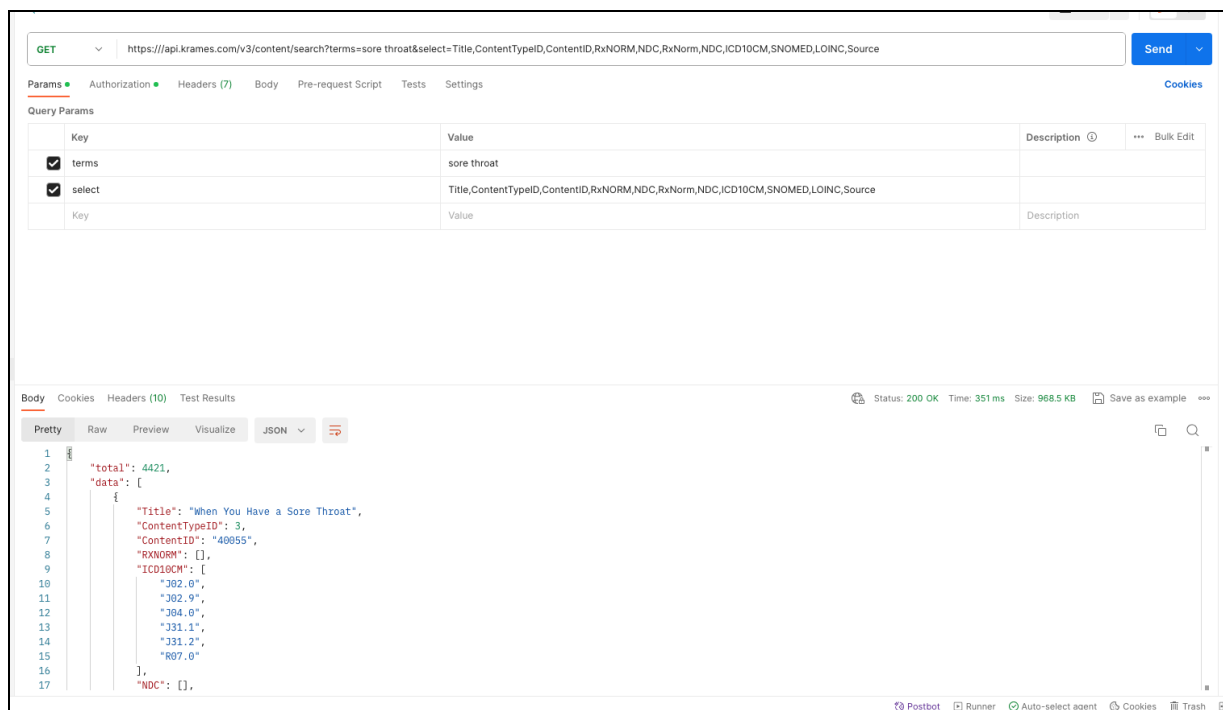
select = Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source

There are 334 articles for this license which consist of the term sore throat in Title, body, and keywords.

<https://api.krames.com/v3/content/search?terms=sore throat&select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source>

There are 4421 articles related to Sore throat





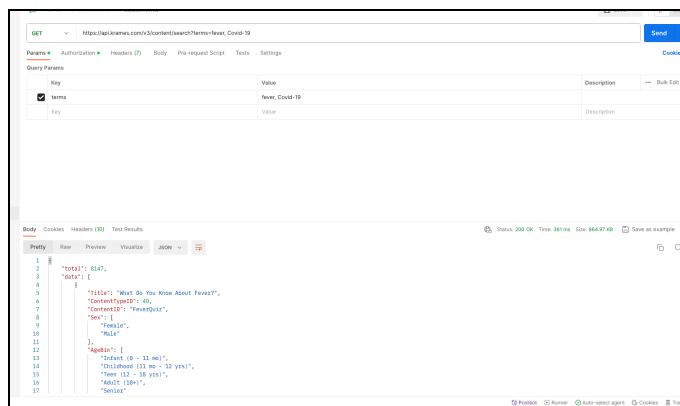
5. terms – fever, Covid-19

There are 3316 articles for this license which consist of the term fever, Covid-19 in Title, body and keywords.

Query Params:

terms = fever, Covid-19

<https://api.krames.com/v3/content/search?terms=fever, Covid-19>



Aggregate Filters

Aggregate filters are done using the aggregate buckets and values returned in the search results. These buckets and values are dynamic and will only include buckets and values that apply to the content contained in the current search results. Implementations of these filters should target buckets and values, not specific bucket names or specific values, as these will change with every search result.

Some examples of buckets:

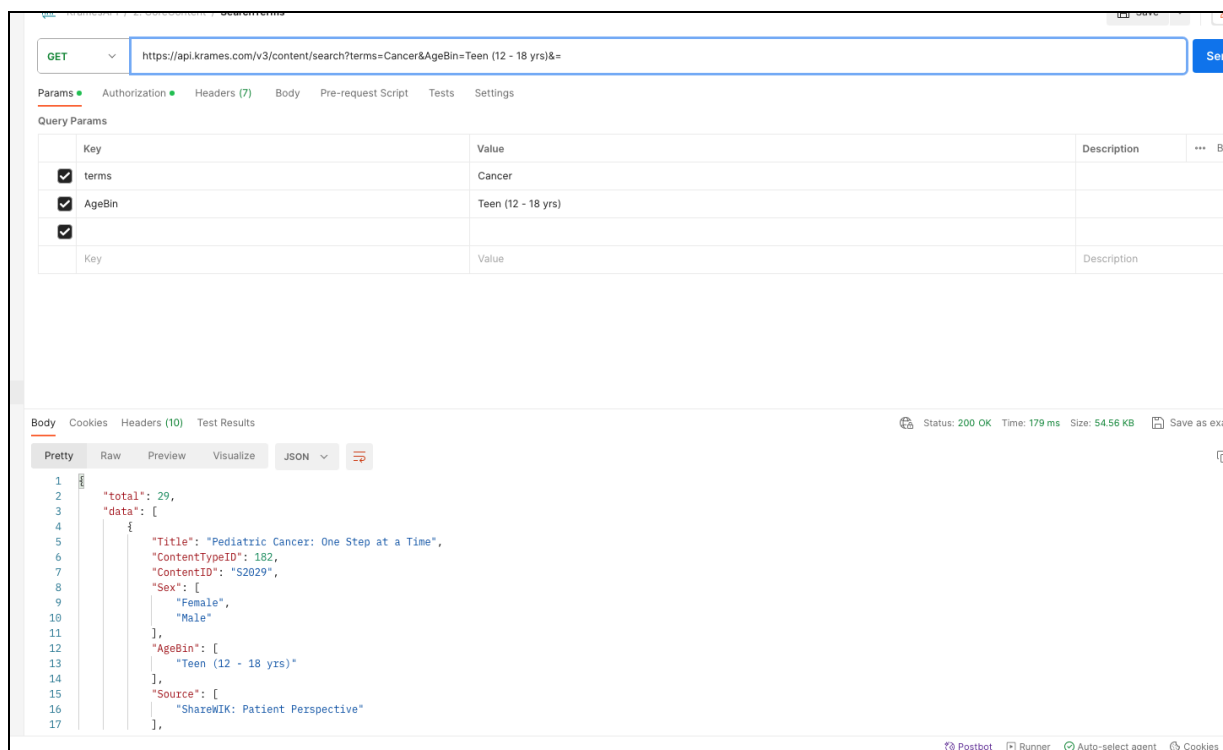
- AgeBin: [[Infant (0–11 mo), Child (11 mo – 12 yrs), Teen (12–18 yrs), Adult (18–64 yrs), Senior (65)], if no value is specified, all resources are returned.

Query Params:

Terms – Cancer

AgeBin – Teen (12 – 18 yrs)

[https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&=](https://api.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&=)



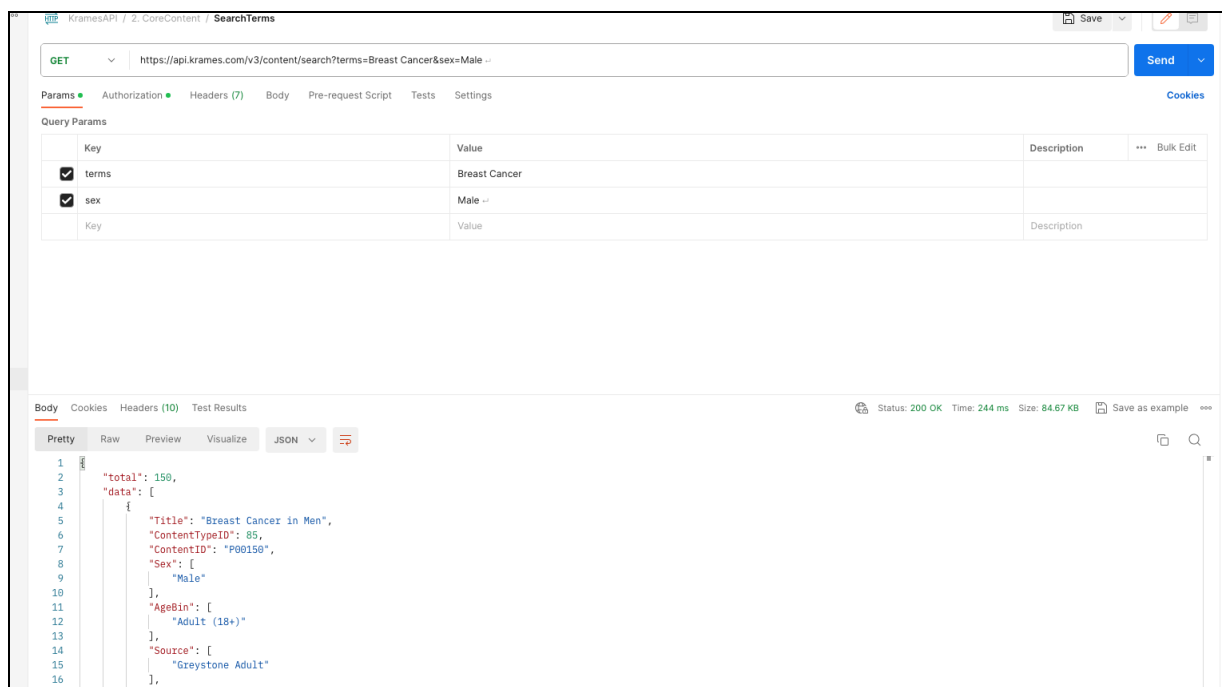
- Sex: [Male, Female], if no value is specified, all resources are returned.

Query Params:

Terms – Breast Cancer,
 aggregate filter (sex) - Male

<https://api.krames.com/v3/content/search?terms=Breast Cancer&sex=Male>

This API call will retrieve all the articles related to the search terms “Breast Cancer” and aggregate filter (Sex = Male)



- **MediaType:** [Document, Streaming Media]

Query Params:

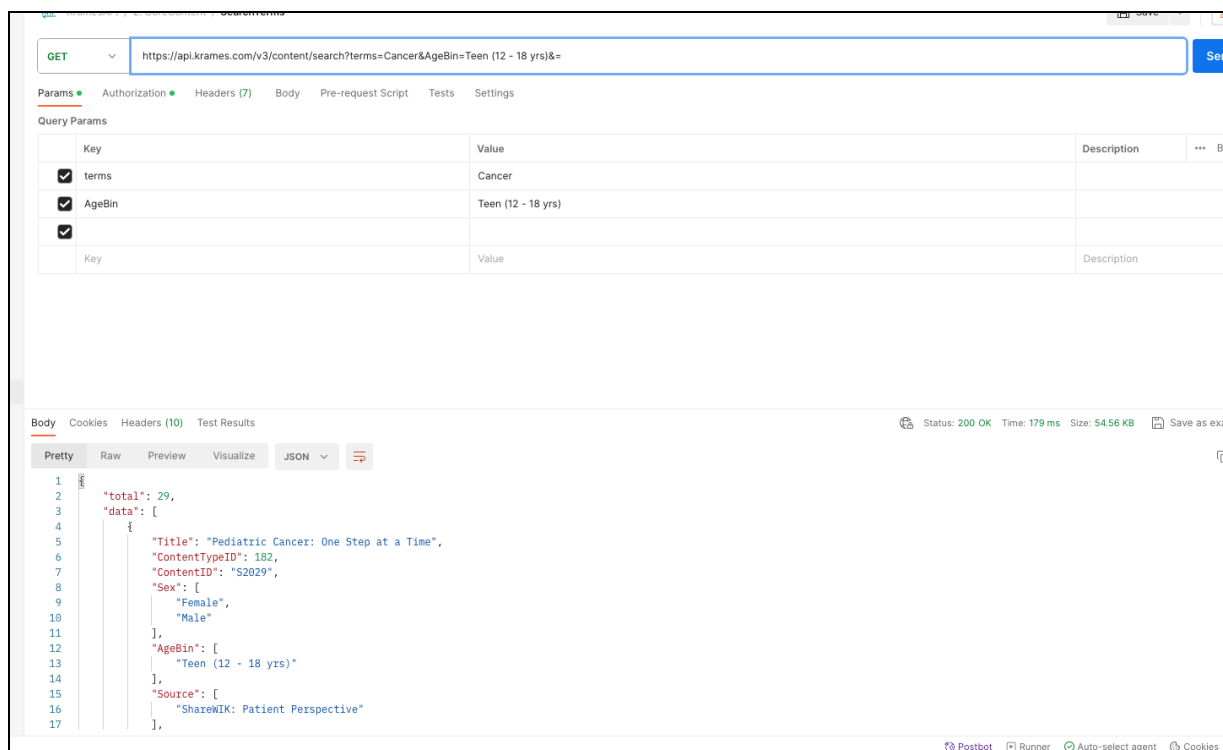
Terms – Cancer

AgeBin – Teen (12 - 18 yrs)

Mediatype- Video

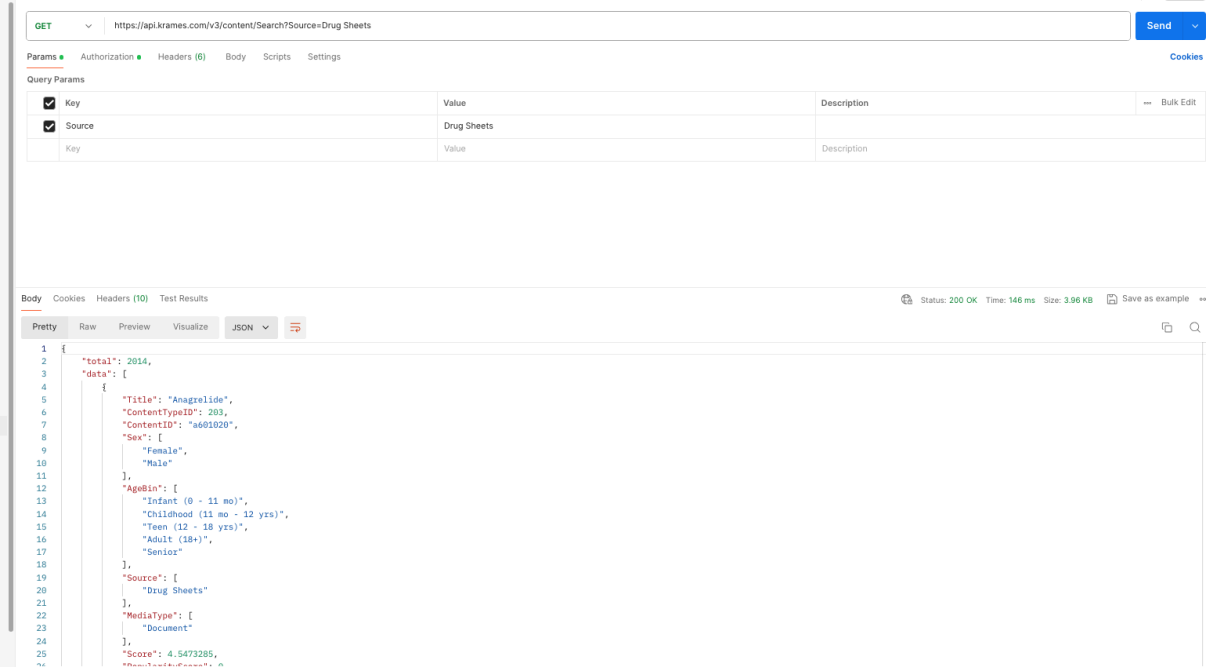
[https://api.staging.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen \(12 - 18 yrs\)&mediatype=Video](https://api.staging.krames.com/v3/content/search?terms=Cancer&AgeBin=Teen (12 - 18 yrs)&mediatype=Video)





- Sources: [HealthSheets, Custom Content Exit-Writer, ASHP Drug Sheets]. See complete list of content sources above

ASHP Drug Sheets API Call: <https://api.krames.com/v3/content/Search?Source=Drug Sheets>



The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** https://api.krames.com/v3/content/Search?Source=Drug Sheets
- Params:**
 - Query Params:**

Key	Value	Description
Source	Drug Sheets	
- Body:**

```

1 {
2   "total": 2014,
3   "data": [
4     {
5       "Title": "Anagrelide",
6       "ContentTypeID": 203,
7       "ContentID": "a601020",
8       "Sex": [
9         "Female",
10        "Male"
11      ],
12      "AgeBin": [
13        "Infant (0 - 11 mo)",
14        "Childhood (11 mo - 12 yrs)",
15        "Teen (12 - 18 yrs)",
16        "Adult (18+)",
17        "Senior"
18      ],
19      "Source": [
20        "Drug Sheets"
21      ],
22      "MediaType": [
23        "Document"
24      ],
25      "Score": 4.5473285,

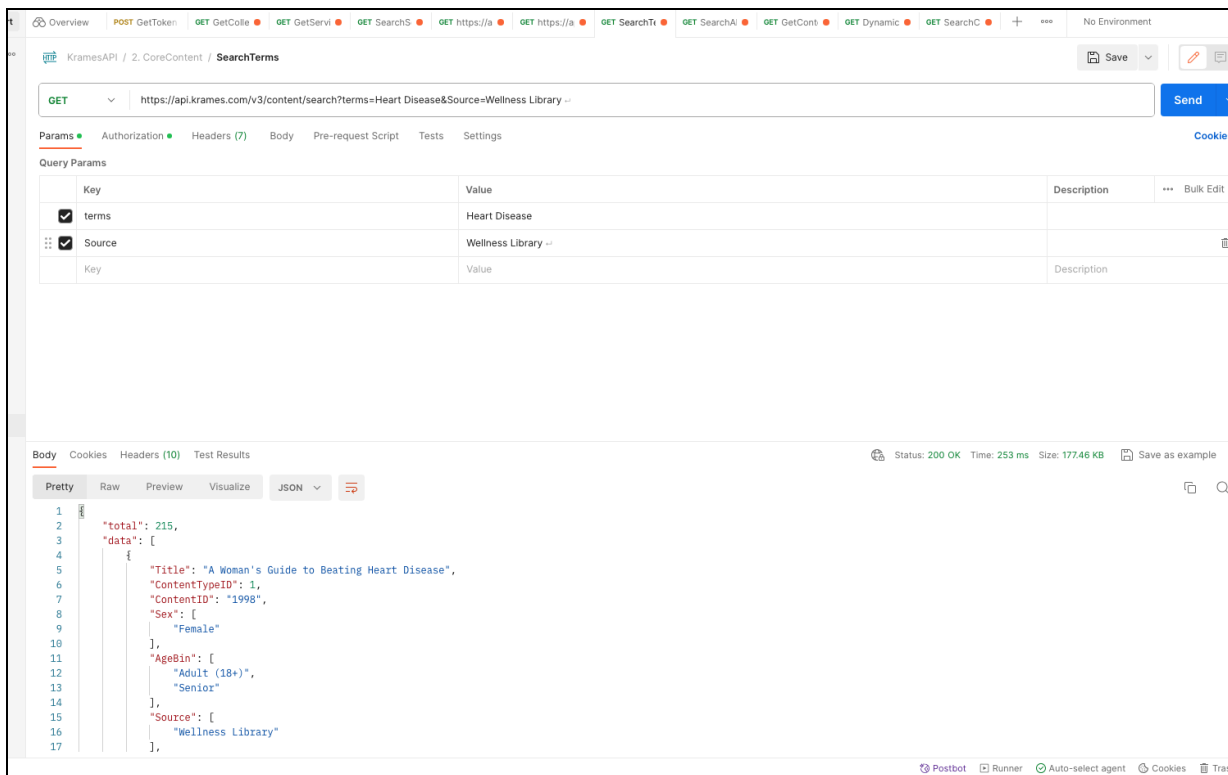
```

Query Params:

Terms – Heart Disease

Source – Wellness Library

<https://api.krames.com/v3/content/search?terms=Heart Disease&Source=Wellness Library>

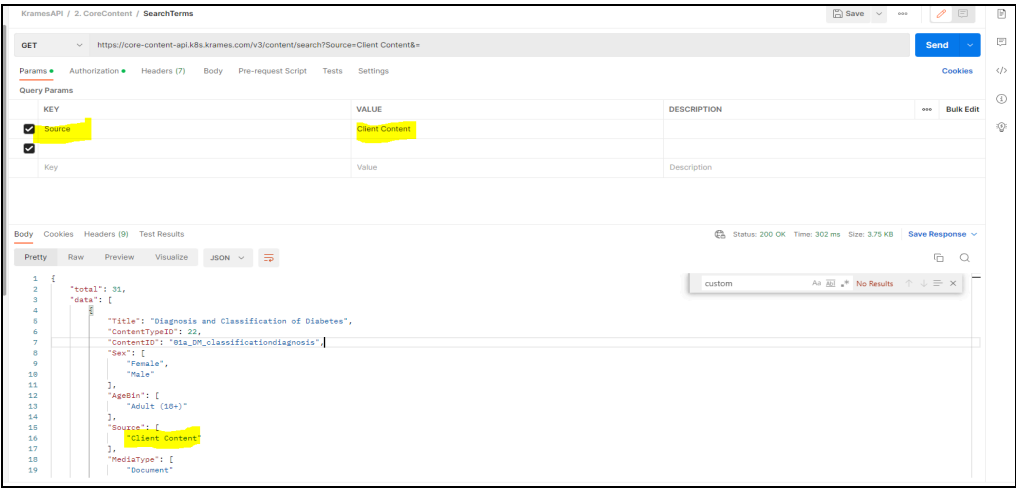


Custom Content Search: Below is the API call to search all the custom content in a license.

<https://api.krames.com/v3/content/search?Source=Client Content&=>

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REST client interface showing a GET request to `https://core-content-api.k8s.krames.com/v3/content/search?Source=Client Content&...`. The query parameters table shows `Source` set to `Client Content`. The response body is a JSON object with a `data` array containing search results. One result is highlighted with a yellow box:

```

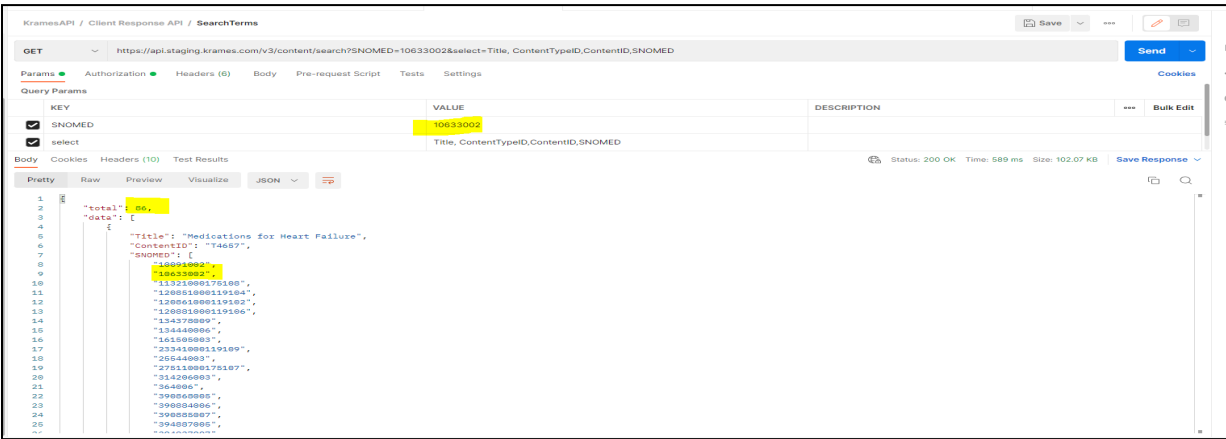
{
  "total": 51,
  "data": [
    {
      "Title": "Diagnosis and Classification of Diabetes",
      "ContentTypeID": 22,
      "ContentID": "01a_0m_classificationanddiagnosis",
      "Sex": [
        "Female",
        "Male"
      ],
      "AgeBin": [
        "Adult (10+)"
      ],
      "Source": [
        "Client Content"
      ],
      "MediaType": [
        "Document"
      ]
    }
  ]
}

```

Code Filters

Filtering by code supports content retrieval using standard clinical lexicons such as ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, NDC and RxNORM. These codes are applied using query string parameters, but are not present in the Aggregate Filters. To utilize these filters, the client must have knowledge of what code they intend to search on, as the search results do not contain this information.

Query Params: SNOMED - 10633002



REST client interface showing a GET request to `https://api.staging.krames.com/v3/content/search?SNOMED=10633002&select=Title,ContentTypeID,ContentID,SNOMED`. The query parameters table shows `SNOMED` set to `10633002` and `select` set to `Title, ContentTypeID, ContentID, SNOMED`. The response body is a JSON object with a `data` array listing medication titles:

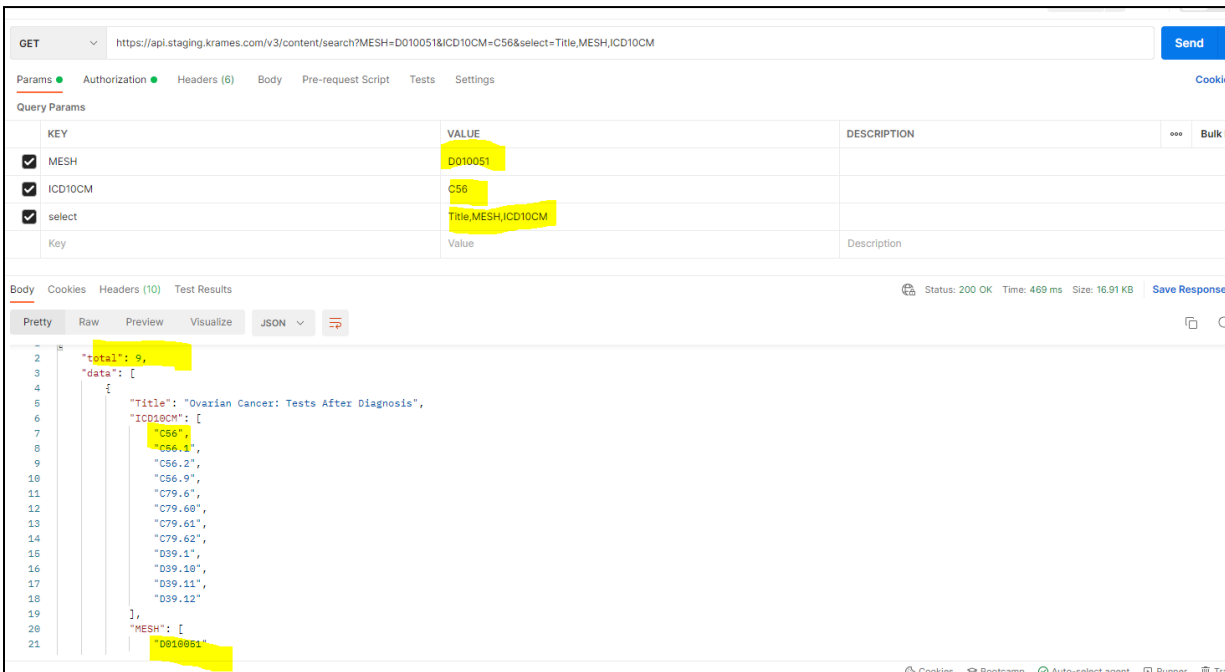
```

{
  "total": 56,
  "data": [
    {
      "Title": "Medications for Heart Failure",
      "ContentID": "f4e57",
      "SNOMED": [
        "10633002",
        "10633002",
        "11321900176100",
        "120051000119104",
        "120061000119102",
        "120081000119106",
        "134370000",
        "134440006",
        "165300000",
        "23341000119100",
        "265440003",
        "275131000175107",
        "314206003",
        "3644000",
        "390060006",
        "390080006",
        "390080007",
        "394887006",
        "394887006"
      ]
    }
  ]
}

```



Query Params - MESH - D010051 and ICD10CM – C56



The screenshot shows a REST client interface with a GET request to `https://api.staging.krames.com/v3/content/search?MESH=D010051&ICD10CM=C56&select=Title,MESH,ICD10CM`. The query parameters are:

KEY	VALUE	DESCRIPTION
MESH	D010051	
ICD10CM	C56	
select	Title,MESH,ICD10CM	
Key	Value	Description

The response body is a JSON object:

```

{
  "total": 9,
  "data": [
    {
      "Title": "Ovarian Cancer: Tests After Diagnosis",
      "ICD10CM": [
        "C56",
        "C56.1",
        "C56.2",
        "C56.9",
        "C79.6",
        "C79.69",
        "C79.61",
        "C79.62",
        "D39.1",
        "D39.19",
        "D39.11",
        "D39.12"
      ],
      "MESH": [
        "D010051"
      ]
    }
  ]
}

```

Pagination

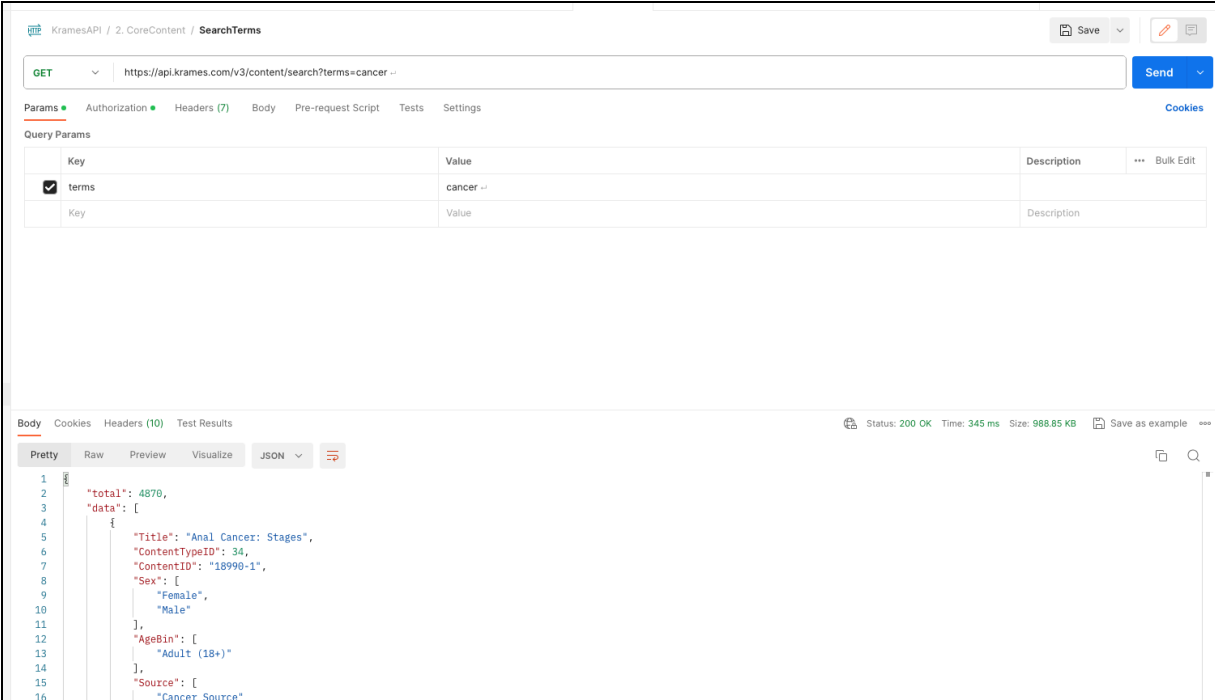
By default, search results are returned in pages of 10, starting at the first page. To paginate through the content, the `limit` and `offset` parameters are available.

Setting the `limit` parameter will change the page size, and setting the `offset` will change where you are in the results.

The search results include a `total` value that indicates the total number of records in the result set. Using this `total`, `limit`, and `offset`, full pagination of the search results is available.

There are 4 examples listed below on how to use limit parameters and one example with limit and offset.

1. No limit parameters.
This will pull the first 10 results in the search query for the terms=cancer



KramesAPI / 2. CoreContent / SearchTerms

GET https://api.krames.com/v3/content/search?terms=cancer

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> terms	cancer		
Key	Value	Description	

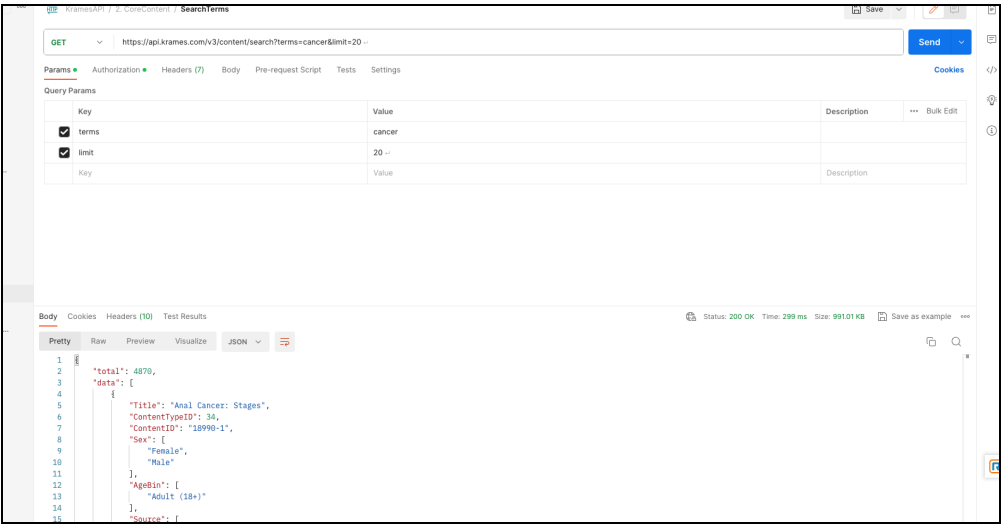
Body Cookies Headers (10) Test Results Status: 200 OK Time: 345 ms Size: 988.85 KB Save as example

```

1  {
2    "total": 4870,
3    "data": [
4      {
5        "Title": "Anal Cancer: Stages",
6        "ContentTypeID": 34,
7        "ContentID": "18990-1",
8        "Sex": [
9          "Female",
10         "Male"
11        ],
12        "AgeBin": [
13          "Adult (18+)"
14        ],
15        "Source": [
16          "Cancer Source"

```

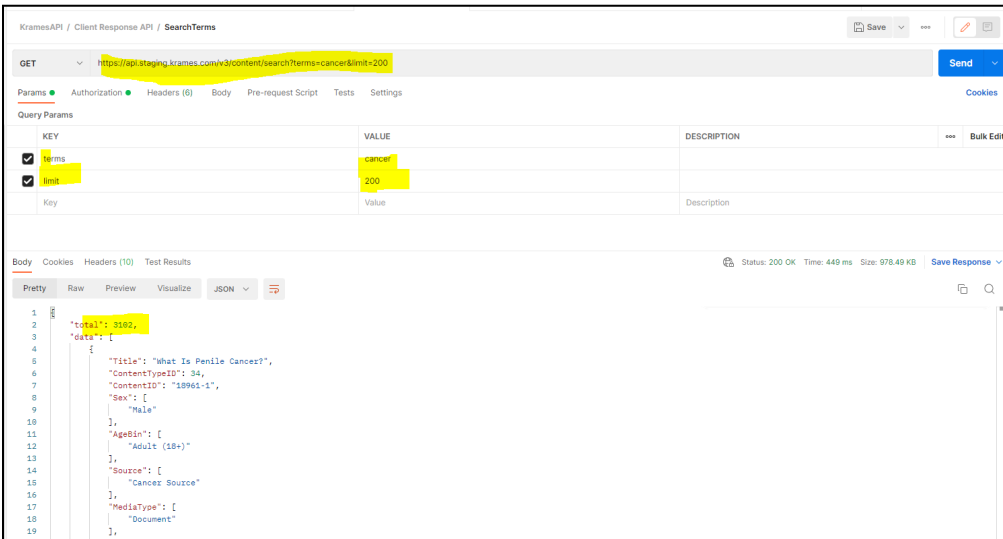
- Limit parameters set to >10 and <100
The below API call will retrieve first limit-20 results for the search term = cancer.
<https://api.krames.com/v3/content/search?terms=cancer&limit=20>



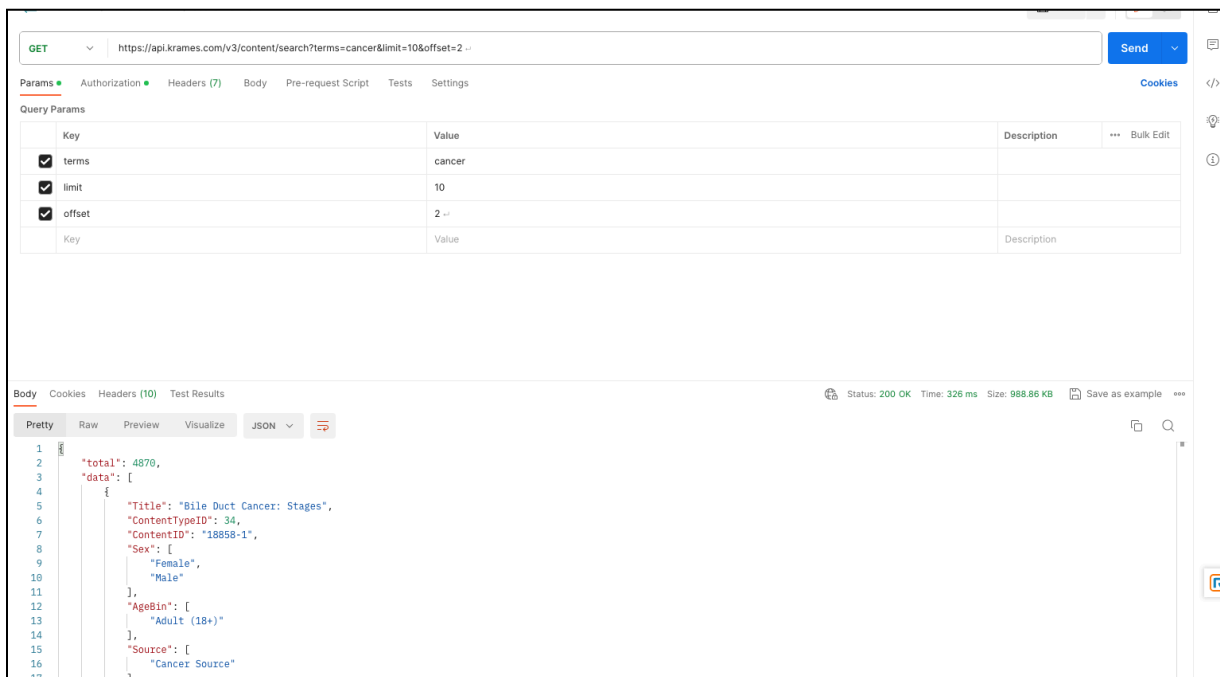
3. limit parameter set to >100

<https://api.krames.com/v3/content/search?terms=cancer&limit=200>

The maximum resultset in an API call will always be 100. The below API call will only first pull 100 titles with the term cancer even if the limit is set to 200.



- limit parameter set to >10 and offset > 2
<https://api.krames.com/v3/content/search?terms=cancer&limit=10&offset=2>
 offset will change where you are in the resultset and will pull the first ten results from that location



Selecting Fields

By default, the results contain the following fields:

- Title
- ContentTypeID
- ContentID
- Sex
- AgeBin
- Source
- MediaType
- Score (This is an internal field that represents the relevancy score)

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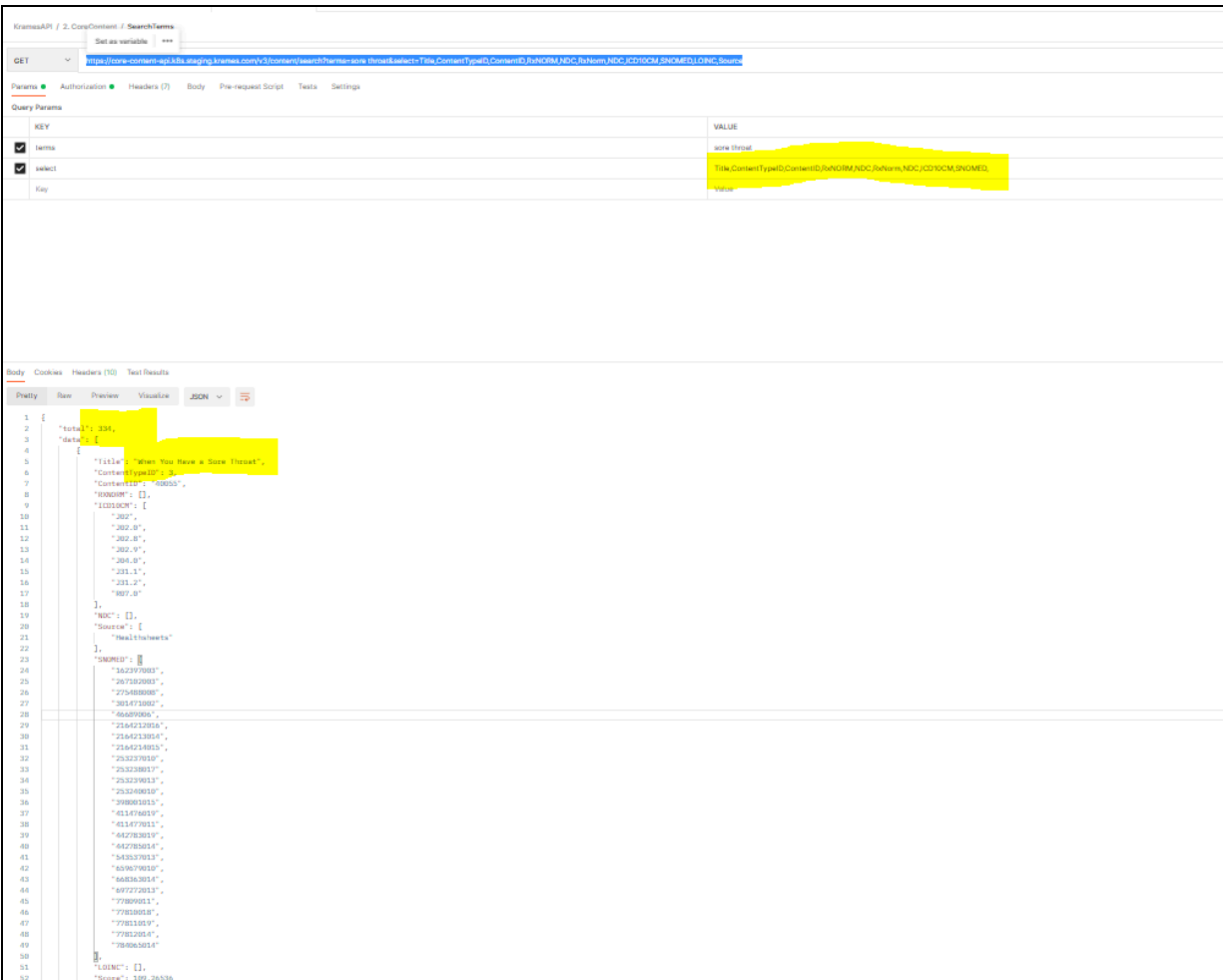
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The fields that are selected when a search is executed can be specified using the select parameter. `GET /v3/content/Search?select=Title,ContentTypeID,ContentID` would return only those 3 fields.

Available fields for selecting include:

- CollectionID
- RXNORM
- ICD10CM
- ICD10PCS
- NDC
- MediaType
- MESH
- SNOMED
- HCPCS
- CPT
- LOINC
- ICD9
- Language
- Blurb
- Keywords



The screenshot shows a REST client interface for a GET request to the endpoint: `https://core-content-api.3ds.usgigw.webmd.com/v3/content/search?term=sew&brand=select=Title,ContentTypeID,ContentID,Brand,NDC,ByHome,NDC,CDTCOM,SHOWMED,ORNC,Source`. The query parameters are:

KEY	VALUE
items	size:1000
select	Title,ContentTypeID,ContentID,Brand,NDC,ByHome,NDC,CDTCOM,SHOWMED,ORNC,Source

The response body is a JSON object with the following structure:

```

1 {
2   "total": 234,
3   "data": [
4     {
5       "id": "1413", "When You Have a Sore Throat",
6       "ContentTypeID": 3,
7       "ContentID": "10055",
8       "brand": [],
9       "NDC": [
10        "302",
11        "302.0",
12        "302.8",
13        "302.9",
14        "306.0",
15        "331.1",
16        "331.2",
17        "897.0"
18      ],
19       "Source": [],
20       "Source": "HealthWells",
21     },
22   ],
23   "SMPRES": [
24     "24277001",
25     "26752003",
26     "27548000",
27     "28147002",
28     "46409006",
29     "21642100A",
30     "21642100B",
31     "21642100C",
32     "25323010",
33     "25323011",
34     "25323012",
35     "25323013",
36     "39800101",
37     "41147010",
38     "41147011",
39     "44270010",
40     "44270011",
41     "54353011",
42     "46067010",
43     "46067011",
44     "49727201",
45     "77809011",
46     "77810010",
47     "77810011",
48     "77812014",
49     "794063014"
50   ],
51   "ORNC": [],
52   "Score": 100.26336
  }
  
```

Content & Terms blocking

The RESTful API now supports content & term blocking. This functionality prevents results to be displaced or that specific content from showing up in the response of the search endpoint. To enable this functionality, please reach out to the Ignite Education implementation team with the list of terms or content you want to be blocked from the search endpoint.

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Technical Specifications

Resource	GET /v3/content/Search
Description	The core search endpoint for searching content.
Parameters	<p>HTTP Headers:</p> <p>accepts-language the content language, default to en.</p> <p>QueryString Parameters (all optional):</p> <p>language: en //Overwrites any accepts-language header, defaults to 'en'</p> <p>terms: <String></p> <p>rxnorm: [<String>, <String>]</p> <p>sex: [<String>, <String>]</p> <p>icd10pcs: [<String>, <String>]</p> <p>icd10cm: [<String>, <String>]</p> <p>snomed: [<String>, <String>]</p> <p>hcpcs: [<String>, <String>]</p> <p>ndc: [<String>, <String>]</p> <p>mesh: [<String>, <String>]</p> <p>loinc: [<String>, <String>]</p> <p>ageBin: [<String>, <String>]</p> <p>cptcode: [<String>, <String>]</p> <p>source: [<String>, <String>]</p> <p>mediatype: [<String>, <String>]</p> <p>select: [<String>, <String>]</p> <p>icd9code: [<String>, <String>]</p> <p>limit: <Integer> // Default: 10</p> <p>offset: <Integer> // Default: 0</p> <p>select: [<String>, <String>]</p>
Return Values	<p>200 Success</p> <pre>{ "total": 217, "data": [{ "title": <String>, "contentType": <Integer>, "contentId": <String>, "aggregationName": [<String>] }] }</pre>

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```
    ],  
    ...  
    "score": 7.0069566  
  }  
],  
"aggregations": [  
  {  
    "name": "Aggregation Name",  
    "aggregationValues": {  
      "abc": 209,  
      "xyz": 193  
    }  
  }  
]  
}  
500  
{  
  errors: [<String>]  
}
```



Content Retrieval

API Calls	Parameters
https://api.krames.com/	
https://api.krames.com/v3/collection	
https://api.krames.com/v3/collection/{subtopicId}	subtopicId
https://api.krames.com/v3/content/search?collectionPath={{collectionPath}}	collectionPath
https://api.krames.com/v3/content/{ContentTypeID}-{ContentID}	ContentTypeID and ContentID
https://api.krames.com/v3/service_line	
https://api.krames.com/KODI_Sigmoid/Content.svc/GetAllServiceLineAudiences	
https://api.krames.com/v3/content/search?terms={keyword}	Terms={keywords}
https://api.krames.com/v3/content/search?terms={keywords} Cancer&select=Title,ContentTypeID,ContentID,Source and Cancer&collectionPath={collectionPath}	Terms, select, collectionPath
https://api.krames.com/v3/content/search?terms={keyword}&select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source	
https://api.krames.com/v3/content/search?terms={keywords}&select=Title,ContentTypeID,ContentID,RxNORM,NDC,RxNorm,NDC,ICD10CM,SNOMED,LOINC,Source	Terms, select
https://api.krames.com/v3/content/search?terms={keywords}&AgeBin={AgeBin}	Terms, AgeBin

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<code>https://api.krames.com/v3/content/search?terms={keywords}&sex={GENDER}</code>	Terms, sex
<code>https://api.krames.com/v3/content/search?terms={Keywords}&AgeBin={AgeBin}&mediatype={mediatype}</code>	Terms, sex, mediatype
<code>https://api.krames.com/v3/content/search?terms={keywords}&Source={SourceName}</code>	Terms, Source
<code>https://api.krames.com/health</code>	

Use Cases

Related Content

Related content can be obtained by using MeSH codes from either a Get Content request, or by selecting the MeSH codes in the search response, and executing a second search request using the MeSH code as a filter. The resulting search results would include documents related to the source content.

Example:

Perform a search:

```
GET /v3/content/Search?terms=diabetes
```

Select a document and retrieve:

```
GET /v3/content/123-1234
```

In the response from the get content call, we can see a MeSH code in the metadata of that response. We could display this document to a user, along with related documents, by executing a search using the MeSH code that was present in the document:

Get related content:

```
GET /v3/content/Search?MESH=98765
```

The results returned from this related content search can be displayed along with the contents of the document being displayed to inform the user of other content that is related to the document they are looking at.

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Type 2 Diabetes

What is type 2 diabetes?

Type 2 diabetes is when your body can't make enough insulin, or use it well. Insulin helps your cells use sugar (glucose) for energy. Without insulin, glucose builds up in your blood. This leads to high blood sugar.

Type 2 diabetes is an ongoing (chronic) disease. It has no known cure. It's the most common type of diabetes.

What causes type 2 diabetes?


The exact cause of type 2 diabetes is not known. It seems to run in families. But it often takes other factors to bring on the disease. These include:

- Being overweight
- Not getting enough physical activity
- Taking certain medicines

Who is at risk for type 2 diabetes?

Risk factors include:

- **Age.** People ages 45 and older are at higher risk for diabetes.



Pay My Bill

Related Items

DISEASES AND CONDITIONS

- [Alcohol Use and People with Diabetes](#)
- [Cardiovascular Disease and Diabetes](#)
- [View All 19](#)

PEDIATRIC DISEASES AND CONDITIONS

- [Diabetes During Pregnancy](#)
- [Diet and Diabetes](#)
- [View All 6](#)

TESTS AND PROCEDURES

- [Glucose \(Urine\)](#)



APPENDIX

Each content resource is identified by a Content Type ID (numeric code) and a Source which is the text description of the Content Type ID.

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Clinical Content

The table below provides detailed information on each content Source and Content Type ID included in a typical Clinical user license. The content included in a specific client’s license may be different. Only licensed content will be available through the API.

Note: The number of resources and languages will be continually updated with each content update. The information provided below is for illustrative purposes only.

Consult the *Quarterly Content Update* documentation for current content counts and language support.

Source	Standard Description	Content Type ID	Possible Metadata <i>Note: Assigned metadata depends on the topic</i>
Health Sheets	Patient Education documents that provide education on conditions, self-management and treatment options.	3	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Exit-Writer Discharge Instructions	Discharge documents that provide patients with about a common diagnosis or health concern with information on when to seek additional care.	82	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Lab Tests	Documents that help patients understand procedures and lab tests and range of results (normal, below and above normal ranges).	167	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Greystone - Pediatric	Patient Education focussed on conditions, treatment, and self-management options and the special needs of pediatric patients.	90	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords

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Drug Sheets	Documents that provide people with information about prescription drugs.	203	RxNORM, NDC
Disease Management	Selected resources only. Chronic condition resources.	56	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Greystone Adult	Selected resources only. Patient Education documents that provide education on conditions, self-management and treatment options.	85	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Scc Diseases and Conditions	Selected resources only.	134	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Wellness Library	Selected resources only.	1	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Cancer Source	Selected resources only.	34	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Scc Diseases and Conditions - Pediatric	Selected resources only.	160	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Scc Tests and Procedures	Selected resources only. Documents that help patients understand procedures and lab tests and range of results.	135	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords

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Greystone Tests and Procedures	Selected resources only.	92	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Scc Tests and Procedures - Pediatric	Selected resources only. Documents that help patients understand procedures and lab tests and range of results.	161	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Kids Health Discharge Instructions	Optional: Available for additional licensing. 3rd Party content focussed on conditions, treatment, and self-management options and the special needs of pediatric patients.	187	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Ignite Education Clinical Videos - Includes Step-by-step animation videos	Ignite Education videos that address common conditions, teach self-management skills.	138	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
TWN Videos	TWN videos that address common conditions, teach self-management skills.	207	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
ViewMedica Videos	Third party videos to educate patients on how to administer specific medications.	198	
VUCA Videos: Administration	Third party videos to educate patients on how to administer specific medications.	192	Keyword

VUCA Videos: Condition	Third party videos to educate patients on medications for specific conditions.	193	Keyword
VUCA Videos: Medication	Third party videos to educate patients on medications.	194	RxNORM, NDC
KidsHealth Videos	Third party videos to educate patients on how to administer specific medications. KidsHealth Videos can be used within Krames on FHIR, too.	202	
Video HealthSheet	Printable description of a video, including abstract, QR code and short URL.	188	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
The Wellness Network Video HealthSheets	Printable description of a video, including abstract, QR code and short URL.	209	
ViewMedica VideoSheets	Printable description of a video, including abstract, QR code and short URL.	200	
KidsHealth Video Sheets	Printable description of a video, including abstract, QR code and short URL.	204	
VUCA Video Sheets	Printable description of a video, including abstract, QR code and short URL.	201	
Client's Custom Content	Customized documents specific to a client.	22	Determined by each client

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Consumer Resources

Clients may also license content from the Consumer Health Library. The table below provides detailed information on the Content Source and corresponding Content Type ID and possible metadata. The content listed below represents the content included for a typical consumer use case. The content included in a specific client’s license may be different. Only licensed content will be available through the API.

Content Type Name	Standard Description	Content Type ID	Possible Metadata <i>Note: Actual metadata depends on the topic</i>
Wellness Library	Education focussed on lifestyle and wellness topics.	1	MeSH, Serviceline, Keywords
ICM Health & Wellness	Consumer Education documents that provide education on conditions, self-management and treatment options.	197	MeSH, Serviceline, Keywords
Prevention Planner	Consumer Education documents that provide education on preventive services.	43	MeSH, Serviceline, Keywords
Greystone Adult <i>* Has Segments</i>	Consumer Education documents that provide education on conditions, self-management and treatment options.	85	MeSH, Serviceline, Keywords
Scc Diseases and Conditions <i>* Has Segments</i>	Consumer Education documents that provide education on conditions, self-management and treatment options.	134	MeSH, Serviceline, Keywords

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Lab Tests	Documents that help patients understand procedures and lab tests and range of results.	167	MeSH, Serviceline, Keywords
Scc Tests and Procedures <i>* Has Segments</i>	Documents that help patients understand procedures and lab tests.	135	MeSH, Serviceline, Keywords
Greystone Tests and Procedures <i>* Has Segments</i>	Documents that help patients understand lab tests	92	MeSH, Serviceline, Keywords
Scc Diseases and Conditions - Pediatric <i>* Has Segments</i>	Consumer Education documents that provide education on conditions, self-management and treatment options for pediatric patients.	160	MeSH, Serviceline, Keywords
Greystone Pediatrics <i>* Has Segments</i>	Education focussed on conditions, treatment, and self-management options and the special needs of pediatric patients.	90	MeSH, Serviceline, Keywords
Scc Tests and Procedures -Pediatric <i>* Has Segments</i>	Education focussed on Tests and Procedures options and the special needs of pediatric patients.	161	MeSH, Serviceline, Keywords
Disease Management	Chronic condition resources.	56	MeSH, Serviceline, Keywords
Recipes	Variety of healthier-option recipes.	30	MeSH, Serviceline, Keywords

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Cancer Source	Education focussed on cancer-related topics	34	MeSH, Serviceline, Keywords
Cancer FAQs	Education focussed on cancer-related topics.	35	
Quizzes	Interactive resources.	40	MeSH, Serviceline, Keywords
Risk Assessments	Interactive resources.	42	MeSH, Serviceline, Keywords
Calculators	Interactive resources.	41	MeSH, Serviceline, Keywords
Greystone Newsletters	Newsletter style resources.	88	Keywords
Ignite Education Clinical Videos Includes approximately 100 Step-by-step animation videos	Ignite Education videos that address common conditions, teach self-management skills.	138	MeSH, ICD-10-CM, ICD-10-PCS, SNOMED, CPT, LOINC, HCPCS, Serviceline, Age Bin, Sex, Keywords
Client's Custom Content	Customized documents specific to a client.	22	Determined by client
Drug Sheets	Third-party brand and generic prescription ASHP drug content.	203 - New 208 - Old	RxNORM, NDC
Nutrition Facts	Third party content with nutrition facts for common foods.	20	

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Nutritional Supplement Advisor	Third-party content with information on dietary supplements.	19	
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Languages

Ignite Education provides content in 3 language sets: basic, plus, and premium, depending on the content source. See the table below for the content type associated with a language. Note that some specific resources may be offered in additional languages.

Content Source	Standard Languages: (ISO639)		Optional Languages, depend on the specific resource	
Basic Language	EN ES	English Spanish		
Plus Language	ZH ZH-C N DE RU VI	Chinese Chinese Simplified German Portuguese Russian Vietnamese		
Premium Language	AR FR HT HI IT JO KO PL TGL	Arabic French Haitian-Creole Hindi Italian Japanese Korea Polish Tagalog		
LabSheets	en es	English Spanish		
ASHP Drug Sheets	en es	English Spanish		
Ignite Education Clinical Videos	en es	English Spanish		
Step-by-step animation Videos <i>(Ignite Education Clinical Video collection)</i>	en es	English Spanish		

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Consumer Health Library	en	English		Selected titles are available in Spanish
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Segmented Content

Segmented content is available for the content sources below.

Please note: Not all articles in the Source below contain segments. The segments are not required. For example, “Call 911” may not be available for all conditions.

Source	Available Segments
Greystone Adult Greystone Pediatric Scc Diseases and Conditions	Overview Causes Symptoms Diagnosis Treatment Prevention Living With When to Call a Healthcare Provider Call 911 Key Points Next Steps
Greystone Tests and Procedures Scc Tests and Procedures Scc Tests and Procedures - Pediatric	Overview Purpose Risks Preparation During the Test After the Test Next Steps

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