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## Newsum WebService Manual

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Scify

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## I NewSum Web Service

The NewSum Web Service has been implemented to provide an interface to the NewSum server. It supports many different types of queries described below. The webservice calls return a String formatted using the GSON JSON library for java. The structure of the returned strings can be seen here III. It is stressed that the platform uses *openjdk-6*.

## II Functions

- ✓ public String getLinkLabels()
- ✓ public String getCategories(String sUserSources)
- ✓ public String getTopicIDs(String sUserSources, String sCategory)
- ✓ public String getTopicTitles(String sUserSources, String sCategory)
- ✓ public String getTopicsByKeyword(String sKeyword, String sUserSources)
- ✓ public String getSummary(String sTopicID, String sUserSources)

## III JSonFormatReturned

### i data structs \*

- ◇ public String getLinkLabels()

✓ Returned format=  $[\{LinkLabel_1\}, \{LinkLabel_2\}, \dots, \{LinkLabel_n\}]$

where  $LinkLabel_i = \underbrace{"link"}_{\text{format string}} : \underbrace{"linkString"}_{\text{data}}, \underbrace{"sourceName"}_{\text{format string}} : \underbrace{"sourceNameString"}_{\text{data}}$

returned string example

```
[{"link": "http://www.mysite.gr/?feed20asdrss2", "sourceName": "my site"},  
{"link": "http://www.angryBananas.com/rss.xml", "sourceName": "AngryBananas"}]
```

- ◇ public String getCategories(String sUserSources)

✓ Returned format=  $[\underbrace{"category_1"}_{\text{data}}, \underbrace{"category_2"}_{\text{data}}, \dots, \underbrace{"category_n"}_{\text{data}}]$

returned string example

```
["Technology", "Science", "Sport", "Greece", "World", "SciFY News"]
```

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\*typically in JSON classes are passed in { } brackets and lists in [ ] brackets

◇ public String getTopicIDs(String sUserSources, String sCategory)

✓ Returned format=  $\underbrace{["topicID_1"]}_{data}, \underbrace{["topicID_2"]}_{data}, \dots, \underbrace{["topicID_n"]}_{data}$

returned string example

`["6dd1b301-3ee6-4e47-931f", "5640811d-e02c-4f11-1234", "fcbb813d-889b-41dd-9048"]`

◇ public String getTopicTitles(String sUserSources, String sCategory)

✓ Returned format=  $[\{TopicTitle_1\}, \{TopicTitle_2\}, \dots, \{TopicTitle_n\}]$

where  $Topic_i = \underbrace{["topicID"]}_{format\ string} : \underbrace{["topicIDString"]}_{data},$

$TopicTitle_i = \underbrace{["topicTitle"]}_{format\ string} : \underbrace{["topicTitleString"]}_{data},$

$\underbrace{["date"]}_{format\ string} : \underbrace{["dateString"]}_{date\ format\ ii}, \underbrace{["sourcesNum"]}_{format\ string} : \underbrace{sources}_{integer\ data}$

returned string example

`[{"topicID":"bdasbfe-7326-4251",  
"topicTitle":"Cheese is bad for you",  
"date":{"year":2013,"month":6,"dayOfMonth":18,  
"hourOfDay":21,"minute":43,"second":39},"sourcesNum":5},  
{"topicID":"bdasdbfe-7236-4271",  
"topicTitle":"Life exists not only on Mars but on Snickers too",  
"date": {"year":2012,"month":2,"dayOfMonth":18,  
"hourOfDay":21,"minute":45,"second":35},"sourcesNum":3}]`

◇ public String getTopicsByKeyword(String sKeyword, String sUserSources)

✓ Returned format=  $[\{Topic_1\}, \{Topic_2\}, \dots, \{Topic_n\}]$

where  $Topic_i = \underbrace{["topicID"]}_{format\ string} : \underbrace{["topicIDString"]}_{data}, \underbrace{["topicTitle"]}_{format\ string} : \underbrace{["topicTitleString"]}_{data},$

$\underbrace{["date"]}_{format\ string} : \underbrace{["dateString"]}_{date\ format\ ii}, \underbrace{["sourcesNum"]}_{format\ string} : \underbrace{sources}_{integer\ data}$

returned string example

`[{"topicID":"bdasbfe-7326-4271", "topicTitle":"Cheese is bad for you",  
"date":{"year":2013,"month":6,"dayOfMonth":18,  
"hourOfDay":21,"minute":43,"second":39},"sourcesNum":5},  
{"topicID":"57a864gf0-6342-46a9", "topicTitle":"Life exists not only on  
Mars but on Snickers too",  
"date": {"year":2012,"month":2,"dayOfMonth":18,  
"hourOfDay":21,"minute":45,"second":35},"sourcesNum":3}]`

```
◇ public String getSummary(String sTopicID, String sUserSources)
```

✓ Returned format= $\{ \underbrace{"sources"}_{\text{format string}} : \underbrace{[sources]}_{\text{sources format}}, \underbrace{"snippets"}_{\text{format string}} : \underbrace{[snippets]}_{\text{snippets format}} \}$

- $sources = \{source_1\}, \{source_2\}, \dots, \{source_n\}$
- $snippets = \{snippet_1\}, \{snippet_2\}, \dots, \{snippet_n\}$
- $source_i = \underbrace{"url"}_{\text{format string}} : \underbrace{"urlString"}_{\text{data}}, \underbrace{"name"}_{\text{format string}} : \underbrace{"nameString"}_{\text{data}}$
- $snippet_i = \underbrace{"summary"}_{\text{format string}} : \underbrace{"summaryString"}_{\text{data}}, \underbrace{"sourceUrl"}_{\text{format string}} : \underbrace{"sourceUrlString"}_{\text{data}},$   
 $\underbrace{"sourceName"}_{\text{format string}} : \underbrace{"sourceNameString"}_{\text{data}}, \underbrace{"feedUrl"}_{\text{format string}} : \underbrace{"feedUrlString"}_{\text{data}}$

returned string example

```
{
  "sources": [
    {
      "url": "http://www.scifynews.com",
      "name": "scify",
      "snippets": [
        {
          "summary": "Scify explores the moon",
          "sourceUrl": "http://www.scifynews.com",
          "sourceName": "scify",
          "feedUrl": "http://scifynews.com/feed.xml"
        }
      ]
    },
    {
      "url": "http://www.gothamcitynews.com",
      "name": "batman",
      "snippets": [
        {
          "summary": "Batman verifies Scify's lunar exploration project",
          "sourceUrl": "http://www.gothamcitynews.com",
          "sourceName": "batman",
          "feedUrl": "http://gothamcitynews.com/feed.xml"
        }
      ]
    }
  ]
}
```

## ii date format

```
dateformat "date":{
```

- "year" : "year"  
format string    integer data
- "month" : "month"  
format string    integer data
- "dayOfMonth" : "dayOfMonth"  
format string    integer data
- "hourOfDay" : "hourOfDay"  
format string    integer data
- "minute" : "minute"  
format string    integer data
- "second" : "second"  
format string    integer data

}

## IV NewSumWS calls through php examples

### i Initialize!

First we must call the constructor and initialize variable newsum.

```
$newsum = new NewSumFreeService("insert link to wsdl of NewSum web service here!");
```

### ii Now let's make some tests!

Now we should be able to run the following tests.

✓ public String getLinkLabels()

```
$linkLabels=$newsum->getLinkLabels();  
echo "<br> link labels! <br><br>";  
foreach($linkLabels as $linkLabel){  
    echo $linkLabel->sourceName."<br>";  
    echo $linkLabel->link."<br>";  
}
```

✓ public String getCategories(String sUserSources)

```
echo "<br> categories! <br><br>";  
$sources=  
array("http://www.koutipandoras.gr/?feed=rss2","http://topontiki.gr/rss");  
$categories=$newsum->getCategories($sources);  
foreach($categories as $category){  
    echo $category."<br>";  
}
```

✓ public String getTopicIDs(String sUserSources, String sCategory)

```
echo "<br> topic id's! <br><br>";  
$topicIDs=$newsum->getTopicIDs($sources,$category);  
foreach($topicIDs as $topicID){  
    echo $topicID."<br>";  
}
```

✓ public String getTopicTitles(String sUserSources, String sCategory)

```
echo "<br> topic titles! <br><br>";
$topicTitles=$newsum->getTopicTitles($sources,$category);
foreach($topicTitles as $topicTitle){
    echo $topicTitle->topicID."<br>";
    echo $topicTitle->topicTitle."<br>";
    echo $topicTitle->sourcesNum."<br>";
    echo "year: ".$topicTitle->date->year."<br>";
    echo "month: ".$topicTitle->date->month."<br>";
    echo "day: ".$topicTitle->date->dayOfMonth."<br>";
    echo "hour: ".$topicTitle->date->hourOfDay."<br>";
    echo "minute: ".$topicTitle->date->minute."<br>";
    echo "second: ".$topicTitle->date->second."<br><br>";
}
```

✓ public String getTopicsByKeyword(String sKeyword, String sUserSources)

```
echo "<br> get summaries! <br><br>";
$summaries=$newsum->getSummary($topicID,$sources);
$header= $summaries->sources;
$data= $summaries ->snippets;
echo "<br> summary header <br>";
foreach($header as $sourcetag){
    echo $sourcetag->url."<br>";
    echo $sourcetag->name."<br>";
}
echo "<br> summary data <br>";
foreach($data as $snippet){
    echo $snippet->summary."<br>";
    echo $snippet->sourceUrl."<br>";
    echo $snippet->sourceName."<br>";
    echo $snippet->feedUrl."<br>";
}
```

✓ public String getSummary(String sTopicID, String sUserSources)

```
echo "<br> get topics by keyword! <br><br>";  
$keyword="Scify";  
$topics=$newsum->getTopicsByKeyword($keyword,null);  
foreach($topics as $topic){  
    echo $topic->topicID."<br>";  
    echo $topic->topicTitle."<br>";  
    echo $topic->sourcesNum."<br>";  
    echo "year: ".$topic->date->year."<br>";  
    echo "month: ".$topic->date->month."<br>";  
    echo "day: ".$topic->date->dayOfMonth."<br>";  
    echo "hour: ".$topic->date->hourOfDay."<br>";  
    echo "minute: ".$topic->date->minute."<br>";  
    echo "second: ".$topic->date->second."<br><br>";  
}
```

