Technical Report Summary

Google Scholar API

NAO ID 3349

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In-Mexico Program Backend Developer Certification

Server and Database Commands

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Endpoints

These are the main requirements to query through Google Scholar search results via HTTP GET requests:

- Base URL - https://serpapi.com
- Service - /search
- Select Google Scholar API - ?engine=google_scholar

Examples:

- GET search results from biology:
  `https://serpapi.com/search?engine=google_scholar&q=biology`
- GET search result from a specific author:
  `https://serpapi.com/search.json?engine=google_scholar_author&author_id=LSsXyncAAAAJ`

Authentication Methods

To access Google Scholar API through SerpApi we need an API Key.

To obtain an API key we need to sign up at https://serpapi.com/users/sign_up and go to Api Dashboard → Your Account → API Key

This key must include your API key in the request:

- As a query parameter: `api_key=YOUR_API_KEY`
- In the header (recommended for security): `Authorization: Bearer YOUR_API_KEY`

Query Parameters

These are some of the common param use for the queries, for the complete documentation visit:
https://serpapi.com/google-scholar-api

Param		Description
engine	Required	Set to `google_scholar` to use the Google Scholar API engine
q	Required	Search query (e.g., keywords, author name)
author	Optional	Filter by author
source	Optional	Filter by publication source
as_ylo	Optional	Filter results from a specific year onward
as_yhi	Optional	Filter results up to a specific year
scisbd	Optional	Filter by abstract/full results
hl	Optional	Language code (e.g., en, es)
lr	Optional	Limit search to specific languages
start	Optional	Limit search to specific languages

Response Formats

The API returns structured JSON, e.g.:

```
{
  "organic_results": [
   {
     "title": "Deep Learning",
     "authors": "Y LeCun, Y Bengio, G Hinton",
     "publication": "Nature", "year": "2015",
   },
   ...
  ],
  ...
}
```

For more information on how the JSON is structured visit: https://serpapi.com/google-scholar-organic-results

Usage Limits

SerpApi has many plan prices, and each gives different rating, for the full list of prices and rate limits visit: https://serpapi.com/pricing

Plan	Free	Developer	Production
Price per month	$0 USD	$75 USD	$150 USD
Total Searches / month	250	5,000	15,000
Rate limit per hour	250	1,000	3,000

Code Examples

GET:https://serpapi.com/search.json?engine=google_scholar_author&author_id=LSsXyncAAAAJ

Java Integration:

```
// </> Code
Map<String, String> parameter = new HashMap<>();

parameter.put("engine", "google_scholar_author");
parameter.put("author_id", "LSsXyncAAAAJ");
parameter.put("api_key", "secret_api_key");

GoogleSearch search = new GoogleSearch(parameter);

try {
  JsonObject results = search.getJson();
  var author = results.get("author");
} catch (SerpApiSearchException ex) {
  System.out.println("Exception:");
  System.out.println(ex.toString());
}
```

JavaScript Integration:

```javascript
const { getJson } = require("serpapi");

getJson({
  engine: "google_scholar_author",
  author_id: "LSsXyncAAAAJ",
  api_key: "secret_api_key"
}, (json) => {
  console.log(json["author"]);
});
```

Both approaches will get the same result:

```json
// {} JSON Response
{
  "search_metadata": {
    "id": "60802ce5de983402dbe1ae4c",
    "status": "Success",
    "json_endpoint": "https://serpapi.com/...",
    "created_at": "2021-04-21 13:47:17 UTC",
    "processed_at": "2021-04-21 13:47:18 UTC",
    "google_scholar_author_url": "
https://scholar...",
    "raw_html_file": "https://serpapi...",
    "total_time_taken": 1.26
  },
  ...
}
```