API Documentation (DevDocs)

Base URL

```
Unset
http://localhost:5000/api/cves
```

Endpoints

1. Get Total CVEs

- **URL:** /count
- **Method:** GET
- **Description:** Retrieves the total number of CVEs in the database.
- **Response Example:**

```
Unset
{
  "totalCves": 12345
}
```

2. Get CVE by ID

- **URL:** /getById/:id
- **Method:** GET
- **Description:** Fetches CVE details for a specific CVE ID.
- **Parameters:**
    - id (string): The unique CVE ID.
- **Response Example:**

```
Unset
{
  "cve": {
    "id": "CVE-2022-12345",
```

```json
      "sourceIdentifier": "source",
      "published": "2022-01-01T00:00:00Z",
      "lastModified": "2022-01-02T00:00:00Z",
      "vulnStatus": "status",
      "descriptions": [
        {
          "lang": "en",
          "value": "Description of the CVE."
        }
      ],
      "metrics": {
        "cvssMetricV2": [
          {
            "cvssData": {
              "baseScore": 5.0
            }
          }
        ]
      },
      "weaknesses": [
        {
          "description": [
            {
              "lang": "en",
              "value": "Weakness description."
            }
          ]
        }
      ],
      "references": [
        {
          "url": "http://example.com"
        }
      ]
    }
}
```

3. Get CVE List

- **URL:** /list
- **Method:** GET
- **Description:** Retrieves a paginated list of all CVEs.
- **Parameters:**
  - page (number, query) (default: 1): The requested page number.
  - limit (number, query) (default: 10): Number of results per page.
  - sort (string, query) (optional): Sort results by published or lastModified.
- **Response Example:**

```
Unset
{
  "totalRecords": 1000,
  "totalPages": 100,
  "currentPage": 1,
  "resultsPerPage": 10,
  "results": [
    {
      "cve": {
        "id": "CVE-2022-12345",
        "published": "2022-01-01T00:00:00Z",
        "lastModified": "2022-01-02T00:00:00Z",
        "vulnStatus": "status"
      }
    }
  ]
}
```

4. Get CVEs by Year

- **URL:** /year/:year
- **Method:** GET
- **Description:** Retrieves a paginated list of CVEs for a given year.
- **Parameters:**
  - year (number): Year of the CVEs.
  - page (number, query) (default: 1): The requested page number.
  - limit (number, query) (default: 20): Number of results per page.
- **Response Example:**

```
Unset
{
  "currentPage": 1,
  "totalPages": 10,
  "totalCves": 200,
  "cves": [
    {
      "cve": {
        "id": "CVE-2022-12345",
        "published": "2022-01-01T00:00:00Z",
        "lastModified": "2022-01-02T00:00:00Z",
        "vulnStatus": "status"
      }
    }
  ]
}
```

Models

CVE Object Structure

- `id` (string): The unique CVE identifier.
- `published` (date): Date of CVE publication.
- `lastModified` (date): Last modification date.
- `metrics` (object): Contains CVSS score details.
- `descriptions` (array): Description details.
- `weaknesses` (array): List of weaknesses.
- `references` (array): Reference links for the CVE.

This is a very abstract structure - for actual object data structure refer to Vulnerability APIs . And our Data structure is an exact replica of what is in it.