## 7. API Documentation for Each Operation

- Base URL: http://localhost:5000
- Endpoints:
  - Get All CVEs (GET /cves)
    - **Description**: Fetches all CVEs with filtering, sorting, and pagination.
    - Query Parameters:
      - cve\_id (string) Filter by specific CVE ID.
      - year (int) Filter CVEs from a specific year.
      - min\_score, max\_score (float) Filter by CVE base score.
      - search (string) Search in descriptions or CVE ID.
      - status (string) Filter by vulnerability status.
      - source\_identifier (string) Filter by source.
      - sort\_by (string) Field to sort by (published\_date, base\_score, etc.).
      - sort\_order (string) ASC or DESC.
      - limit (int) Number of records per page (default: 10).
      - offset (int) Pagination offset (default: 0).

## Response Example:

- o Get CVE by ID (GET /cve/<string:cve\_id>)
  - **Description**: Fetches details of a specific CVE.

## Response Example:

```
"id": "CVE-2024-0001",
    "published_date": "01 Jan 2024",
    "last_modified_date": "10 Jan 2024",
    "base_score": 7.5,
    "description": "Detailed CVE description",
    "access_vector": "Network",
    "severity": "High"
}
```