**1. Cluster API**

These APIs provide cluster-wide information and management.

**a. Check Cluster Health**

GET \_cluster/health

Example Response:

json

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{

"cluster\_name": "my-cluster",

"status": "yellow",

"number\_of\_nodes": 3,

"number\_of\_data\_nodes": 2

}

**b. Cluster Stats**

bash

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GET \_cluster/stats

**2. Index Management APIs**

These APIs help in managing indices in Elasticsearch.

**a. Create an Index**

bash

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PUT my\_index

**b. List All Indices**

bash

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GET \_cat/indices?v

**c. Get Index Mapping**

bash

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GET my\_index/\_mapping

**d. Delete an Index**

DELETE my\_index

**3. Document APIs**

These APIs allow you to manage documents inside an index.

**a. Add a Document**

POST my\_index/\_doc/1

{

"name": "John Doe",

"age": 30,

"city": "New York"

}

**b. Retrieve a Document**

bash

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GET my\_index/\_doc/1

**c. Update a Document**

bash

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POST my\_index/\_update/1

{

"doc": {

"age": 31

}

}

**d. Delete a Document**

bash

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DELETE my\_index/\_doc/1

**4. Search API**

These APIs help in searching data.

**a. Simple Search**

bash

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GET my\_index/\_search?q=name:John

**b. Search Using Query DSL**

GET my\_index/\_search

{

"query": {

"match": {

"name": "John"

}

}

}

**5. Bulk API**

To perform multiple operations in one request.

bash

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POST \_bulk

{ "index": { "\_index": "my\_index", "\_id": "1" } }

{ "name": "Alice", "age": 25 }

{ "index": { "\_index": "my\_index", "\_id": "2" } }

{ "name": "Bob", "age": 28 }

**6. Snapshot API**

To back up and restore indices.

**a. Create a Snapshot Repository**

PUT \_snapshot/my\_backup

{

"type": "fs",

"settings": {

"location": "/mount/backups"

}

}

**b. Take a Snapshot**

bash

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PUT \_snapshot/my\_backup/snapshot\_1