

PureInsights

Technical Test – Prove of functionalities.
Developer: Mónica Waterhouse Montoya

Ingestion

Document count

The screenshot shows the Elastic UI interface. At the top, there's a search bar with the text "Search Elastic". Below it, a navigation bar includes "Machine Learning", "Data Visualizer", and "Index". The main section is titled "imdb-movies" with a status "000". A yellow box highlights the "Total documents: 6,178" text. Below this, there's a search input field with the placeholder "Search... (e.g. status:200 AND extension:'PHP')", a "KQL" button, and a "Sample size (per shard): 5000" dropdown. To the right, there are "Field name" and "Field type" dropdowns. At the bottom left, there's a "+ Add filter" button.

Sample document

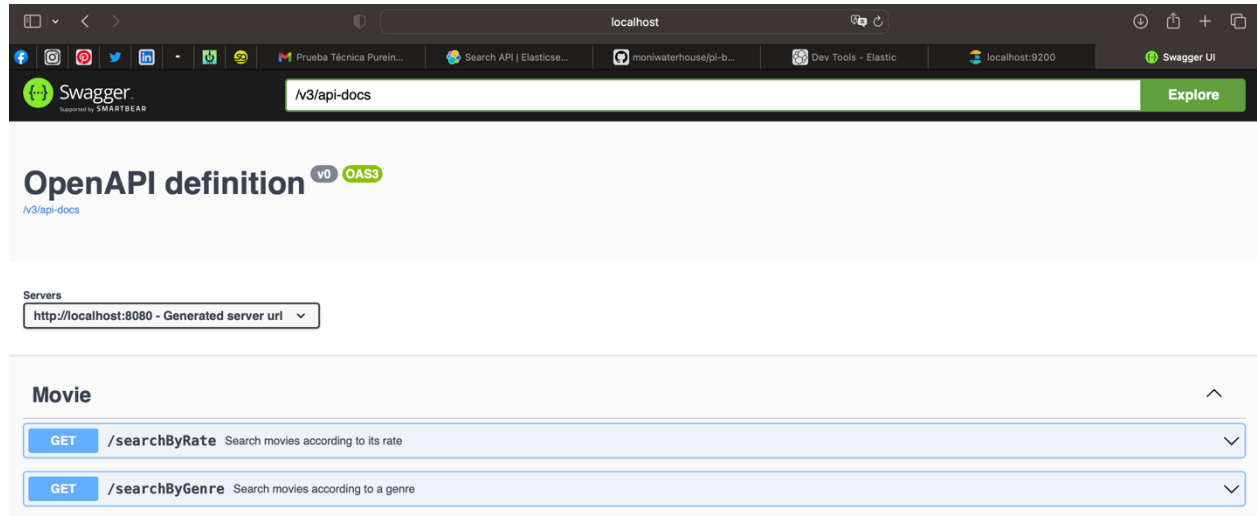
The screenshot shows the Elastic UI interface. At the top, there's a search bar with the text "Search Elastic". Below it, a navigation bar includes "Dev Tools". A banner at the top says "Help us improve the Elastic Stack" with a "Dismiss" button. Below the banner, there's a "Console" tab selected, with other tabs like "Search Profiler", "Grok Debugger", "Painless Lab", and "BETA". The console shows a list of requests, with the first one highlighted: "1 GET /imdb-movies/_search". To the right of the console, a yellow box highlights a sample document. The document is a JSON object with the following fields: "_index": "imdb-movies", "_type": ".doc", "_id": "54b_HIKBQFAXSQD_Krj", "_score": 1.0, "_source": { "date": 2021, "alcohol": "Mild", "nudity": "Mild", "certificate": "PG-13", "profanity": "Mild", "type": "Film", "duration": "163 ", "rate": "7.6", "name": "No Time to Die", "genre": "Action, Adventure, Thriller", "frightening": "Moderate", "votes": "107,163", "episodes": "-", "violence": "Moderate" }. The console also shows a status "200 - OK" and a response time "38 ms".

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API

Endpoints



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Examples of titles that match a provided genre

Action

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByGenre?genre=Action' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByGenre?genre=Action
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "alcohol": "Mild", "certificate": "PG-13", "date": 2021, "duration": "163 ", "episodes": "-", "frightening": "Moderate", "genre": "Action, Adventure, Thriller", "name": "No Time to Die", "nudity": "Mild", "profanity": "Mild", "rate": "7.6", "type": "Film", "violence": "Moderate", "votes": "107,163" }, { "alcohol": "Mild", "certificate": "PG-13", "date": 2021, "duration": "97 ", "episodes": "-", "frightening": "Moderate", "genre": "Action, Adventure, Sci-Fi", "name": "Venom: Let There Be Carnage", </pre>

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByGenre?genre=Action' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByGenre?genre=Action
```

Server response

Code	Details
200	<p>Response body</p> <pre> "frightening": "Moderate", "genre": "Action, Sci-Fi, Thriller", "name": "Death Race", "nudity": "Mild", "profanity": "Severe", "rate": "6.3", "type": "Film", "violence": "Severe", "votes": "203,578" }], "pageable": "INSTANCE", "totalPages": 1, "totalElements": 1659, "last": true, "size": 1659, "number": 0, "sort": { "empty": true, "sorted": false, "unsorted": true }, "numberOfElements": 1659, "first": true, "empty": false </pre>

The image on the left shows the first two documents of the search and the one in the right shows a part of the last document and the total of movies that has “Action” as one of its genres.

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Comedy

Curl	
<pre>curl -X 'GET' \ 'http://localhost:8080/searchByGenre?genre=Comedy' \ -H 'accept: application/json'</pre>	
Request URL	
<pre>http://localhost:8080/searchByGenre?genre=Comedy</pre>	
Server response	
Code	Details
200	<div>Response body</div> <pre>{ "alcohol": "Mild", "certificate": "TV-MA", "date": 2021, "duration": "30 ", "episodes": "23", "frightening": "None", "genre": "Comedy, Drama, Sport", "name": "Ted Lasso", "nudity": "Mild", "profanity": "Severe", "rate": "8.8", "type": "Series", "violence": "None", "votes": "117,562" }, { "alcohol": "None", "certificate": "PG-13", "date": 2021, "duration": "115 ", "episodes": "-", "frightening": "Mild", "genre": "Action, Adventure, Comedy", "name": "Free Guy", "nudity": "Mild", "profanity": "Mild", "rate": "7.8", "type": "Film", "violence": "None", "votes": "887" }], "pageable": "INSTANCE", "totalPages": 1, "totalElements": 1988, "last": true, "size": 1988, "number": 0, "sort": { "empty": true, "sorted": false, "unsorted": true }, "numberOfElements": 1988,</pre>

Curl	
<pre>curl -X 'GET' \ 'http://localhost:8080/searchByGenre?genre=Comedy' \ -H 'accept: application/json'</pre>	
Request URL	
<pre>http://localhost:8080/searchByGenre?genre=Comedy</pre>	
Server response	
Code	Details
200	<div>Response body</div> <pre> "duration": "100 ", "episodes": "-", "frightening": "None", "genre": "Comedy, Drama, Romance", "name": "Queen Bees", "nudity": "None", "profanity": "Mild", "rate": "6.0", "type": "Film", "violence": "None", "votes": "887" }], "pageable": "INSTANCE", "totalPages": 1, "totalElements": 1988, "last": true, "size": 1988, "number": 0, "sort": { "empty": true, "sorted": false, "unsorted": true }, "numberOfElements": 1988,</pre>

The image on the left shows the first two documents of the search and the one in the right shows a part of the last document and the total of movies that has “Comedy” as one of its genres.

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Fantasy

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByGenre?genre=Fantasy' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByGenre?genre=Fantasy
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "alcohol": "Mild", "certificate": "TV-MA", "date": 2021, "duration": "50 ", "episodes": "9", "frightening": "Severe", "genre": "Action, Fantasy, Mystery", "name": "Alice in Borderland", "nudity": "Moderate", "profanity": "Mild", "rate": "7.7", "type": "Series", "violence": "Severe", "votes": "33,151" }, { "alcohol": "Mild", "certificate": "PG-13", "date": 2021, "duration": "132 ", "episodes": "-", "frightening": "Mild", "genre": "Action, Adventure, Fantasy", "name": "Shang-Chi and the Legend of the Ten Rings",</pre>

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByGenre?genre=Fantasy' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByGenre?genre=Fantasy
```

Server response

Code	Details
200	<p>Response body</p> <pre>"episodes": "22", "frightening": "Moderate", "genre": "Crime, Drama, Fantasy", "name": "Forever", "nudity": "None", "profanity": "Mild", "rate": "8.3", "type": "Series", "violence": "Moderate", "votes": "55,231" }], "pageable": "INSTANCE", "totalPages": 1, "totalElements": 574, "last": true, "size": 574, "number": 0, "sort": { "empty": true, "sorted": false, "unsorted": true }, "numberOfElements": 574, "first": true,</pre>

The image on the left shows the first two documents of the search and the one in the right shows a part of the last document and the total of movies that has “Fantasy” as one of its genres.

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Examples of titles which rate is greater than a given rate.

Greater than 8.3 – The screenshot in the right bottom corner shows the number of titles which rate is greater than 8.3

```
Curl
curl -X 'GET' \
  'http://localhost:8080/searchByRate?floorRate=8.3' \
  -H 'accept: application/json'

Request URL
http://localhost:8080/searchByRate?floorRate=8.3

Server response
Code    Details
200

Response body
{
  "content": [
    {
      "alcohol": "Mild",
      "certificate": "TV-MA",
      "date": 2021,
      "duration": "30 ",
      "episodes": "23",
      "frightening": "None",
      "genre": "Comedy, Drama, Sport",
      "name": "Ted Lasso",
      "nudity": "Mild",
      "profanity": "Severe",
      "rate": "8.8",
      "type": "Series",
      "violence": "None",
      "votes": "117,562"
    },
    {
      "alcohol": "Severe",
      "certificate": "TV-MA",
      "date": 2021,
      "duration": "55 ",
      "episodes": "86",
      "frightening": "Severe",
      "genre": "Drama, Fantasy, Horror",
      "name": "Supernatural",
      "nudity": "Mild",
      "profanity": "Mild",
      "rate": "8.4",
      "type": "Series",
      "violence": "Moderate",
      "votes": "411,255"
    }
  ]
}
```

```
Curl
curl -X 'GET' \
  'http://localhost:8080/searchByRate?floorRate=8.3' \
  -H 'accept: application/json'

Request URL
http://localhost:8080/searchByRate?floorRate=8.3

Server response
Code    Details
200

Response body
{
  "content": [
    {
      "alcohol": "Mild",
      "certificate": "TV-PG",
      "date": 2021,
      "duration": "58 ",
      "episodes": "52",
      "frightening": "Mild",
      "genre": "Drama, Romance",
      "name": "Downton Abbey",
      "nudity": "Mild",
      "profanity": "Mild",
      "rate": "8.7",
      "type": "Series",
      "violence": "Mild",
      "votes": "180,688"
    }
  ]
}
```

```
Curl
curl -X 'GET' \
  'http://localhost:8080/searchByRate?floorRate=8.3' \
  -H 'accept: application/json'

Request URL
http://localhost:8080/searchByRate?floorRate=8.3

Server response
Code    Details
200

Response body
{
  "content": [
    {
      "alcohol": "No Rate",
      "certificate": "None",
      "date": 2020,
      "duration": "124 ",
      "episodes": "-",
      "frightening": "No Rate",
      "genre": "Drama",
      "name": "Chal Mera Putt 2",
      "nudity": "No Rate",
      "profanity": "No Rate",
      "rate": "9.0",
      "type": "Film",
      "violence": "No Rate",
      "votes": "2,991"
    },
    {
      "alcohol": "No Rate",
      "certificate": "None",
      "date": 2016,
      "duration": "45 ",
      "episodes": "11",
      "frightening": "No Rate",
      "genre": "Adventure, Comedy, Reality-TV",
      "name": "Gordon, Gino & Fred's Road Trip",
      "nudity": "No Rate",
      "profanity": "No Rate",
      "rate": "8.7",
      "type": "Film",
      "violence": "No Rate",
      "votes": "74"
    }
  ]
}
```

```
Curl
curl -X 'GET' \
  'http://localhost:8080/searchByRate?floorRate=8.3' \
  -H 'accept: application/json'

Request URL
http://localhost:8080/searchByRate?floorRate=8.3

Server response
Code    Details
200

Response body
{
  "content": [
    {
      "alcohol": "No Rate",
      "certificate": "None",
      "date": 2020,
      "duration": "124 ",
      "episodes": "-",
      "frightening": "No Rate",
      "genre": "Drama",
      "name": "Chal Mera Putt 2",
      "nudity": "No Rate",
      "profanity": "No Rate",
      "rate": "9.0",
      "type": "Film",
      "violence": "No Rate",
      "votes": "2,991"
    },
    {
      "alcohol": "No Rate",
      "certificate": "None",
      "date": 2016,
      "duration": "45 ",
      "episodes": "11",
      "frightening": "No Rate",
      "genre": "Adventure, Comedy, Reality-TV",
      "name": "Gordon, Gino & Fred's Road Trip",
      "nudity": "No Rate",
      "profanity": "No Rate",
      "rate": "8.7",
      "type": "Film",
      "violence": "No Rate",
      "votes": "74"
    }
  ],
  "pageable": "INSTANCE",
  "totalPages": 1,
  "totalElements": 380,
  "last": true,
  "size": 380,
  "number": 0,
  "sort": {
    "empty": true,
    "sorted": false,
    "unsorted": true
  },
  "numberOfElements": 380,
  "first": true,
  "empty": false
}
```

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Greater than 9.0 – The screenshot in the right bottom corner shows the number of titles which rate is greater than 9.0

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByRate?floorRate=9.0' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByRate?floorRate=9.0
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "duration": "164", "episodes": "-", "frightening": "No Rate", "genre": "Biography, Crime, Drama", "name": "Sardar Udham", "nudity": "No Rate", "profanity": "No Rate", "rate": "9.2", "type": "Film", "violence": "No Rate", "votes": "8,649" }, { "alcohol": "Mild", "certificate": "TV-14", "date": "2019", "duration": "180", "episodes": "295", "frightening": "Moderate", "genre": "Adventure, Fantasy", "name": "Critical Role", "nudity": "Mild", "profanity": "Moderate", "rate": "9.2", "type": "Series", "violence": "Mild" }</pre>

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByRate?floorRate=9.0' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByRate?floorRate=9.0
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "genre": "Crime, Drama, Mystery", "name": "Sherlock", "nudity": "Mild", "profanity": "Mild", "rate": "9.1", "type": "Series", "violence": "Moderate", "votes": "853,642" }, { "alcohol": "None", "certificate": "TV-Y7-FV", "date": "1974", "duration": "23", "episodes": "62", "frightening": "Moderate", "genre": "Animation, Action, Adventure", "name": "Avatar: The Last Airbender", "nudity": "None", "profanity": "None", "rate": "9.3", "type": "Series", "violence": "Mild", "votes": "273,781" }</pre>

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByRate?floorRate=9.0' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByRate?floorRate=9.0
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "frightening": "Severe", "genre": "Crime, Drama", "name": "The Sopranos", "nudity": "Severe", "profanity": "Severe", "rate": "9.2", "type": "Series", "violence": "Severe", "votes": "340,006" }, { "alcohol": "Moderate", "certificate": "TV-MA", "date": "2021", "duration": "57", "episodes": "73", "frightening": "Severe", "genre": "Action, Adventure, Drama", "name": "Game of Thrones", "nudity": "Severe", "profanity": "Severe", "rate": "9.2", "type": "Series", "violence": "Severe", "votes": "1,885,776" }</pre>

Curl

```
curl -X 'GET' \
'http://localhost:8080/searchByRate?floorRate=9.0' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/searchByRate?floorRate=9.0
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "genre": "Adventure, Fantasy", "name": "Critical Role", "nudity": "Mild", "profanity": "Moderate", "rate": "9.2", "type": "Series", "violence": "Mild", "votes": "7,872" }, { "pageable": "INSTANCE", "totalPages": 1, "totalElements": 21, "last": true, "size": 21, "number": 0, "sort": { "empty": true, "sorted": false, "unsorted": true }, "numberOfElements": 21, "first": true, "empty": false }</pre>

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Greater than 9.6

Curl	
<pre>curl -X 'GET' \ 'http://localhost:8080/searchByRate?floorRate=9.6' \ -H 'accept: application/json'</pre>	
Request URL	
<pre>http://localhost:8080/searchByRate?floorRate=9.6</pre>	
Server response	
Code	Details
200	<div>Response body</div> <pre>{ "content": [{ "alcohol": "No Rate", "certificate": "None", "date": 2004, "duration": "45 ", "episodes": "5", "frightening": "No Rate", "genre": "Drama", "name": "Aspirants", "nudity": "No Rate", "profanity": "No Rate", "rate": "9.7", "type": "Series", "violence": "No Rate", "votes": "286,206" }], "pageable": "INSTANCE", "totalPages": 1, "totalElements": 1, "last": true, "size": 1, "number": 0 }</pre>

Greater than 9.7

Curl	
<pre>curl -X 'GET' \ 'http://localhost:8080/searchByRate?floorRate=9.7' \ -H 'accept: application/json'</pre>	
Request URL	
<pre>http://localhost:8080/searchByRate?floorRate=9.7</pre>	
Server response	
Code	Details
200	<div>Response body</div> <pre>{ "content": [], "pageable": "INSTANCE", "totalPages": 1, "totalElements": 0, "last": true, "size": 0, "number": 0, "sort": { "empty": true, "sorted": false, "unsorted": true }, "numberOfElements": 0, "first": true, "empty": true }</pre>