

# Frontend Interview question

Question:

You've been given a JSON file containing movie data. Your task is to create a user interface (UI) that allows users to perform various functionalities on the movie data. Users should be able to enter a query, and the UI should display the data based on the query.

You can use React Js framework to achieve this.

Daa

[data.json](#)

Layout

[layout](#)

Here are the mandatory functionalities that need to be implemented:

```
query example:  
`get:genre=drama,year=1990`
```

1. Filter: Users should be able to filter the movies based on different criteria, such as genre, release year, or any other relevant attributes. The UI should dynamically update the displayed movies as users apply different filters.

example query:

```
`get:rated=pg-13,year=2009`
```

result:

```
const filterd_movie = {
  Title: 'Avatar',
  Year: '2009',
  Rated: 'PG-13',
  Released: '18 Dec 2009',
  Runtime: '162 min',
  Genre: 'Action, Adventure, Fantasy',
  Director: 'James Cameron',
  Writer: 'James Cameron',
  Actors: 'Sam Worthington, Zoe Saldana, Sigourney Weaver, Stephen Lang',
  Plot: 'A paraplegic marine dispatched to the moon Pandora on a unique mission become s torn between following his orders and protecting the world he feels is his home.',
  Language: 'English, Spanish',
  Country: 'USA, UK',
  Awards: 'Won 3 Oscars. Another 80 wins & 121 nominations.',
  Poster:
    'http://ia.media-imdb.com/images/M/MV5BMTYwOTEwNjAzMl5BMl5BanBnXkFtZTcwODc5MTUwMw@@._V1_SX300.jpg',
  Metascore: '83',
  imdbRating: '7.9',
  imdbVotes: '890,617',
  imdbID: 'tt0499549',
  Type: 'movie',
  Response: 'True',
  Images: [
    'https://images-na.ssl-images-amazon.com/images/M/MV5BMjEyOTYyMzUxNl5BMl5BanBnXkFtZTcwNTg0MTUzNA@@._V1_SX1500_CR0,0,1500,999_AL_.jpg',
    'https://images-na.ssl-images-amazon.com/images/M/MV5BNzM2MDk3MTcyMV5BMl5BanBnXkFtZTcwNjg0MTUzNA@@._V1_SX1777_CR0,0,1777,999_AL_.jpg',
    'https://images-na.ssl-images-amazon.com/images/M/MV5BMTY2ODQ3NjMyMl5BMl5BanBnXkFtZTcwODg0MTUzNA@@._V1_SX1777_CR0,0,1777,999_AL_.jpg',
    'https://images-na.ssl-images-amazon.com/images/M/MV5BMTMxOTEwNDcxNl5BMl5BanBnXkFtZTcwOTg0MTUzNA@@._V1_SX1777_CR0,0,1777,999_AL_.jpg',
    'https://images-na.ssl-images-amazon.com/images/M/MV5BMTYxMDg1Nzk1MV5BMl5BanBnXkFtZTcwMDk0MTUzNA@@._V1_SX1500_CR0,0,1500,999_AL_.jpg',
  ],
};
```

2. Rank Movies: Users should be able to rank the movies based on a custom order defined by them. The UI should allow users to select the sorting criteria and dynamically update the movie list accordingly.

example query:

```
`rank:title='Knives Out'&rank=1&title='They Shall Not Grow Old'&rank=2`
```

```
const result = [
  {
    Title: "Knives Out",
    Year: 2019,
    Rated: "PG-13",
    Released: "27 Nov 2019",
    Runtime: "130 min",
    Genre: "Comedy, Crime, Drama, Mystery, Thriller",
    Director: "Rian Johnson",
    Writer: "Rian Johnson",
    Actors: "Daniel Craig, Chris Evans, Ana de Armas, Jamie Lee Curtis",
    Plot: "A detective investigates the death of a patriarch of an eccentric, combative family.",
    Language: "English, Spanish",
    Country: "USA",
    Awards: "Nominated for 3 Golden Globes. Another 22 wins & 37 nominations.",
    Poster:
      "https://m.media-amazon.com/images/M/MV5BMGUwZjliMTAtNzAxZi00MWNiLWE2NzgtZGUxMGQxZjhhNDRIxkEyXkFqcGdeQXVyNjU1NzU3MzE@._V1_SX300.jpg",
    Ratings: [
      {
        Source: "Internet Movie Database",
        Value: "8.1/10",
      },
      {
        Source: "Rotten Tomatoes",
        Value: "97%",
      },
      {
        Source: "Metacritic",
        Value: "82/100",
      },
    ],
    Metascore: 82,
    imdbRating: 8.1,
    imdbVotes: "66,522",
    imdbID: "tt8946378",
    Type: "movie",
    DVD: "N/A",
    BoxOffice: "N/A",
    Production: "Lionsgate",
    Response: "True",
  },
  {
    Title: "They Shall Not Grow Old",
    Year: 2018,
    Rated: "R",
    Released: "01 Feb 2019",
    Runtime: "99 min",
    Genre: "Documentary, History, War",
    Director: "Peter Jackson",
    Writer: "Peter Jackson",
  }
]
```

```

    Actors: "Mark Kermode, Peter Jackson",
    Plot: "A documentary about World War I with never-before-seen footage to commemora
te the centennial of the end of the war.",
    Language: "English",
    Country: "UK, New Zealand",
    Awards:
      "Nominated for 1 BAFTA Film Award. Another 4 wins & 10 nominations.",
    Poster:
      "https://m.media-amazon.com/images/M/MV5BZWl3ZThmYzUtNDJhOC00ZWY4LTlhNmMtZDgxNjE
3Yzk4NDU1XkEyXkFqcGdeQXVyNTk5Nzg1NjQ@._V1_SX300.jpg",
    Ratings: [
      {
        Source: "Internet Movie Database",
        Value: "8.3/10",
      },
      {
        Source: "Rotten Tomatoes",
        Value: "100%",
      },
      {
        Source: "Metacritic",
        Value: "91/100",
      },
    ],
    Metascore: 91,
    imdbRating: 8.3,
    imdbVotes: "21,722",
    imdbID: "tt7905466",
    Type: "movie",
    DVD: "N/A",
    BoxOffice: "N/A",
    Production: "Warner Bros. Pictures",
    Response: "True",
  },
  '...rest'
];

```

Feel free to you any util lib and UI lib for designs

All the best