

Machine Coding Round Eleven

Movie Rating

The goal of this assignment is to create a movie rating app using React JS.

Instructions:

1. Create this application using React JS Hooks.
2. JSON data has been provided below. Feel free to add more data to it, if you want.
3. Use React Router for routing.
4. This is a frontend assignment. No backend involved.
5. You can use plain CSS or any CSS library you want. Make sure that you focus on completing the functionalities first.
6. You have to host your site live and submit the live link along with Github link of your code or you can choose to code on CodeSandbox and submit the CodeSandbox link.
7. You have to complete the below mentioned features and make your submission here on LMS by 3:00PM IST, 13th August 2023.
8. You can use google for your coding errors and queries.

MUST Do features to pass this MCR:

Data persistence is mandatory on all pages.

1. Movie Listing Page
2. Search a movie
3. Movie Details Page
4. Watchlist Page or Starred Page (Any one of the two)

App Features:

1. Movie Listing Page: List all movies on this page in form of cards.
 - o Give option to star mark the movie and change the button text to “Starred”.
 - o Give option to add the movie to watchlist and change the button text to “Added to Watchlist”.

- On clicking a movie card, navigate to the movie detail page.
- Filter by Genre using dropdown: (dropdown options: Genres present in the data) Show only the movies as per selection.
- Filter by Release Year: (dropdown options: 1990 to 2023) Show only the movies as per selected year.
- Filter by Rating: (dropdown options: 1 to 10) Show only the movies as per selected rating.
- Add a movie: On clicking the button, open a form to add details for a new movie. Allow to add attributes such as title, summary, year, cast, genre, rating, director, writer and imageURL. A newly added movie should persist on page reload.

IMDB

Search movies by title, cast and director...

Movies Watch List Starred Movies

All Genre ▾ Release Year ▾ Rating ▾ Add a Movie

Redemption

Two imprisoned men bond over several years, finding solace and eventual redemption through acts of common decency.

Star Add to Watchlist

The Godfather

The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.

Star Add to Watchlist

The Dark Knight

When the menace known as The Joker emerges, Batman must face one of the greatest psychological tests of his ability to fight injustice.

Star Add to Watchlist

Pulp Fiction

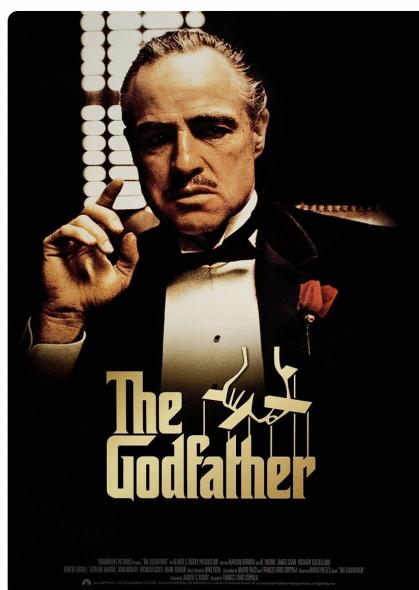
a Quentin Tarantino film

The Dark Knight Rises

The world will never be the same once you've seen it through the eyes of Tom

2. Search a movie: Search a movie by its title, cast or director.

3. Movie Details Page: Show all details of the movie. Give option to star mark the movie and add the movie to watchlist from this page.



The Godfather

The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.

Year: 1992

Genre: Crime, Drama

Rating: 9

Director: Francis Ford Coppola

Writer: Mario Puzo

Cast: Marlon Brando, Al Pacino

Star

Add to Watchlist

4. Watchlist page: List the movies added to watchlist and persist the data on this page.

- Implement a “Remove from wishlist” button.

5. Starred Page: List the movies that are star marked and persist the data on this page.

- Implement an “Unstar” button.

JSON Data:

```
export const movies = [
  {
    id: 1,
    title: 'Redemption',
    year: 1994,
    genre: ['Drama'],
    rating: 9,
    director: 'Frank Darabont',
    writer: 'Stephen King',
    cast: ['Tim Robbins', 'Morgan Freeman'],
    summary:
      'Two imprisoned men bond over several years, finding solace and eventual redemption through their mutual love of stories and the American West.',
    imageURL:
      'https://m.media-amazon.com/images/M/MV5BNDE3ODcxYzMtY2YzZC00NmNlLWJiNDMtZDViZWM2MzIx._V1_.jpg'
  },
  {
    id: 2,
    title: 'The Godfather',
    year: 1992,
    genre: ['Crime', 'Drama'],
    rating: 9,
    director: 'Francis Ford Coppola',
    summary:
      'The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.'
  }
]
```

```
writer: 'Mario Puzo',
cast: ['Marlon Brando', 'Al Pacino'],
summary:
  'The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.'
imageURL:
  'https://m.media-amazon.com/images/M/MV5BM2MyNjYxNmUtYTAwNi00MTYxLWJmNWYtYzZlODY3ZTk3LnBuZw@@'
},
{
  id: 3,
  title: 'The Dark Knight',
  year: 2008,
  genre: ['Action', 'Crime', 'Drama'],
  rating: 9,
  director: 'Christopher Nolan',
  writer: 'Jonathan Nolan, Christopher Nolan',
  cast: ['Christian Bale', 'Heath Ledger'],
  summary:
    'When the menace known as The Joker emerges, Batman must face one of the greatest psychological challenges of his life.'
imageURL:
  'https://m.media-amazon.com/images/M/MV5BMTk40DQzM15BMl5BanBnXkFtZTcwODA0NTM4Nw@@'
},
{
  id: 4,
  title: 'Pulp Fiction',
  year: 1994,
  genre: ['Crime', 'Drama'],
  rating: 8,
  director: 'Quentin Tarantino',
  writer: 'Quentin Tarantino',
  cast: ['John Travolta', 'Samuel L. Jackson'],
  summary:
    'The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits converge in a series of violent and bizarre events that shake their world.'
imageURL:
  'https://m.media-amazon.com/images/M/MV5BNGNhMDIzZTUtNTBlZi00MTRlLWFjM2ItYzViMjE3YzI5MnBuZw@@'
},
{
  id: 5,
  title: 'Return of the King',
  year: 2003,
  genre: ['Adventure', 'Drama', 'Fantasy'],
  rating: 8,
  director: 'Peter Jackson',
  writer: 'J.R.R. Tolkien, Fran Walsh, Philippa Boyens, Peter Jackson',
  cast: ['Elijah Wood', 'Viggo Mortensen'],
  summary:
    "Gandalf and Aragorn lead the World of Men against Sauron's army to draw his gaze from Middle-earth to the Eye of Sauron in the Land of the Dead, where the final battle is fought between the Lord of the Rings and the Dark Lord himself in a war to decide the fate of Middle-earth once and for all."
imageURL:
  'https://m.media-amazon.com/images/M/MV5BNzA5ZDNlZWMtM2NhNS00NDJjLTk4NDItYTRmY2EwMWZlMnBuZw@@'
},
{
  id: 6,
  title: 'Forrest Gump',
  year: 1994,
  genre: ['Drama', 'Romance'],
  rating: 8,
  director: 'Robert Zemeckis',
  writer: 'Winston Groom, Eric Roth',
  cast: ['Tom Hanks', 'Robin Wright'],
  summary:
    'The presidencies of Kennedy and Johnson, the events of Vietnam, Watergate, and other historical events of the 20th century are depicted through the eyes of Forrest Gump, a man with low I.Q. who nevertheless becomes a传奇人物.'
imageURL:
```

```
'https://m.media-amazon.com/images/M/MV5BNWIwODRlZTUtY2U3ZS00Yzg1LWJhNzYtMmZiYmEyNmU1N
},
{
  id: 7,
  title: 'Inception',
  year: 2010,
  genre: ['Action', 'Adventure', 'Sci-Fi'],
  rating: 8,
  director: 'Christopher Nolan',
  writer: 'Christopher Nolan',
  cast: ['Leonardo DiCaprio', 'Joseph Gordon-Levitt'],
  summary:
    'A thief who steals corporate secrets through the use of dream-sharing technology is e
  imageURL:
    'https://m.media-amazon.com/images/M/MV5BMjAxMzY3NjcxNF5BMl5BanBnXkFtZTcwNTI5OTM0Mw@@
},
{
  id: 8,
  title: 'Fight Club',
  year: 1999,
  genre: ['Drama'],
  rating: 8,
  director: 'David Fincher',
  writer: 'Chuck Palahniuk, Jim Uhls',
  cast: ['Brad Pitt', 'Edward Norton'],
  summary:
    'An insomniac office worker and a devil-may-care soapmaker form an underground fight c
  imageURL:
    'https://m.media-amazon.com/images/M/MV5BNDIzNDU0YzEtYzE5Ni00ZjlkLTk5ZjgtNjM3NWE4YzA3N
},
{
  id: 9,
  title: 'The Matrix',
  year: 1999,
  genre: ['Action', 'Sci-Fi'],
  rating: 8,
  director: 'Lana Wachowski, Lilly Wachowski',
  writer: 'Lana Wachowski, Lilly Wachowski',
  cast: ['Keanu Reeves', 'Laurence Fishburne'],
  summary:
    'A computer hacker learns from mysterious rebels about the true nature of his reality
  imageURL: 'https://www.whatisthematrix.com/assets/images/fullbanner.jpg',
},
{
  id: 10,
  title: 'Goodfellas',
  year: 1991,
  genre: ['Biography', 'Crime', 'Drama'],
  rating: 8,
  director: 'Martin Scorsese',
  writer: 'Nicholas Pileggi, Martin Scorsese',
  cast: ['Robert De Niro', 'Ray Liotta'],
  summary:
    'The story of Henry Hill and his life in the mob, covering his relationship with his v
  imageURL:
    'https://m.media-amazon.com/images/M/MV5BY2NkZjEzMdgtN2RjYy00YzM1LWI4ZmQtMjIwYjFjNmI3Z
},
{
  title: 'Fellowship of the Ring',
  year: 2001,
  genre: ['Adventure', 'Drama', 'Fantasy'],

```

```
rating: 8,
director: 'Peter Jackson',
writer: 'J.R.R. Tolkien, Fran Walsh, Philippa Boyens, Peter Jackson',
cast: ['Elijah Wood', 'Ian McKellen'],
summary:
  'A young hobbit, Frodo, who has found the One Ring, begins his journey to Mount Doom,
imageURL:
  "https://images.moviesanywhere.com/198e228b071c60f5ad57e5f62fe60029/ff22cad6-2218-414c
},
]
```