



# D24 Challenge - Frontend Developer

**Exercise:** Build a Movie Search and Display the content

**Objective:** The candidate should demonstrate their ability to build a React component that fetches and displays data from a public movie database API, allows users to search for movies, and handle various UI states gracefully.

## Instructions:

You are tasked with creating a React component that interacts with a public movie database API (e.g., The Movie Database API - <https://www.themoviedb.org/documentation/api>) and provides the following features:

- A search input that allows users to search for movies by title.
- Display search results with movie posters, titles, and release years.
- Handle loading and error states gracefully, displaying appropriate messages to the user.
- Ensure that the component is responsive and works well on both desktop and mobile devices.

## Requirements:

- Use React for building the component.
- Fetch data from the movie database API when a user performs a search.

- Use state to manage the search results, loading state, and error state.
- Provide a clear and intuitive user interface.
- Demonstrate understanding of React best practices, such as using state, useEffect, etc.

### **Bonus Points:**

- Use a state management library like Redux or React Context API for managing the fetched data.

### **Submission:**

The candidate should upload the code to a repository on [GitHub](#) with any necessary instructions on how to run it locally or access it online.

### **Evaluation Criteria:**

- Correctness: Does the component correctly fetch and display movie data from the API?
- Code Quality: Is the code well-structured, organized, and maintainable?
- User Experience: Is the component visually appealing, user-friendly, and responsive?
- React Best Practices: Does the candidate follow React best practices and principles?
- Bonus Points: Does the candidate implement any of the bonus features or additional best practices?