Movie Explorer

Team 4:

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Table of Contents

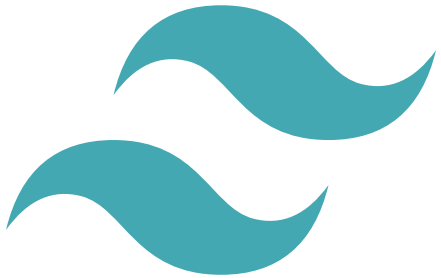
Overview

- Browse, search, and explore movies or TV shows using TMDB API
- Click on any movie or show to view details, trailer, cast, and similar recommendations
- Logged in users can manage personal favorites and watchlist
- Built with React, React Router, TailwindCSS + DaisyUI

Tools

Styling

Deploy

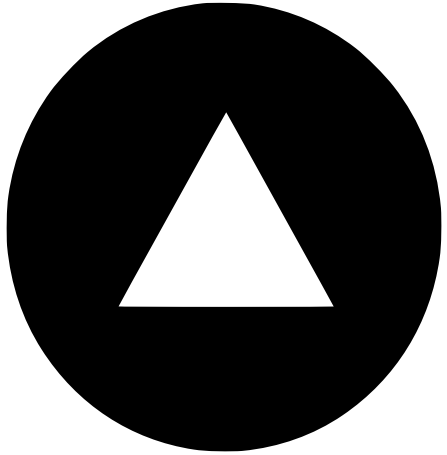


Tailwind CSS

Lucide

DaisyUI

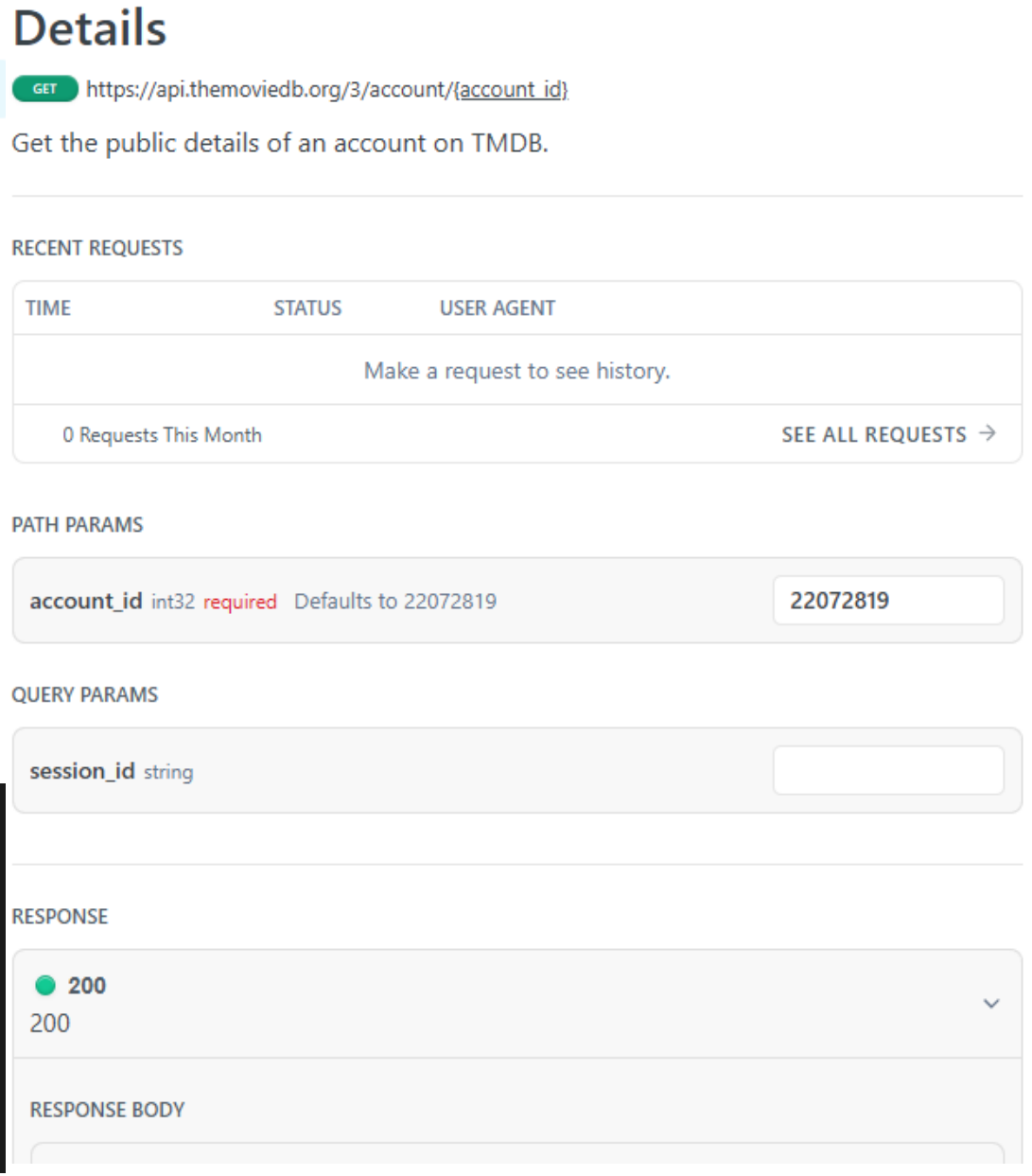
React Slick



Vercel

API

- TMDB API Documentation
- Fetch in api.js




```
const API_KEY = "                                ";
const BASE_URL = "https://api.themoviedb.org/3";

// fetch api of popular movies
export const getPopularMovies = async () => {
  const response = await fetch(`${BASE_URL}/movie/popular?api_key=${API_KEY}`);
  const data = await response.json();
  return data.results;
};
```

What we learned (Shao Hang)

```
const AuthContext = createContext();

Windsurf: Refactor | Explain | Generate JSDoc | X
export const useAuth = () => {
  const context = useContext(AuthContext);
  if (!context) {
    throw new Error("useAuth must be used within an AuthProvider");
  }

  return context;
};

Windsurf: Refactor | Explain | Generate JSDoc | X
export const AuthProvider = ({ children }) => {
  const [isAuthenticated, setIsAuthenticated] = useState(false);
  const [user, setUser] = useState(null);
  const [loading, setLoading] = useState(true);

  useEffect(() => {
    checkAuthStatus();
  }, []);    React Hook useEffect has a missing dependency: 'checkAuthStatus'
```

What we learned (Louis)

- Used useEffect + useParams to fetch Movie/TV data dynamically
- Implemented dynamic routing with React Router
- Integrated with TMDB API for movies and shows

useParams

```
import { useParams } from "react-router-dom";

function MovieDetails() {
  const { id } = useParams();
```

```
<Route path="/movie/:id" element={<MovieDetails />} />
<Route path="/tv/:id" element={<TVDetails />} />
```

useEffect

```
useEffect(() => {
  const fetchData = async () => {
    try {
      // fetch movie details
      const movieData = await getMovieDetails(id);
      setMovie(movieData);

      // fetch credits
      const creditsData = await getMovieCredits(id);
      setCredits(creditsData);

      // fetch trailer
      const videosData = await getMovieVideos(id);
      const trailer = videosData.results.find(
        (vid) => vid.type === "Trailer" && vid.site === "YouTube"
      );
      setTrailerKey(trailer?.key);

      // fetch simlar movies
      const similarData = await getSimilarMovies(id);
      setSimilarMovies(similarData);
    } catch (error) {
      console.error("Error fetching movie data:", error);
    }
  };
```

What we learned (Trang)

useNavigate:
provides programmatic navigation capabilities

In SearchBar.jsx

```
const navigate = useNavigate(); // navigate search query

  const handleSearch = async (e) => {
    e.preventDefault();
    if (!searchQuery.trim()) return; // prevent empty searches

    setIsLoading(true);
    setError(null); // clear any previous errors

    // navigate to search results page with url encoded query
    navigate(`/search?query=${encodeURIComponent(searchQuery)}`);
    setIsLoading(false);
  };
```

In App.js

```
<Route path="/search" element={<SearchResult />} />
```

useLocation:
provides access to current URL location

```
// custom hook to extract and parse URL query parameters
function useQuery() {
  return new URLSearchParams(useLocation().search);
}
```

```
// xxtract search query from url parameters
const query = useQuery().get("query") || "";
```

What to improve

- Add Advanced Search for:
  - Movies
  - TV Shows
- Add Celebrity List
- Add BE and DB

Thank you