



Welcome to MovieExplorer

Discover the latest trending films, search by mood, and save your favorites.

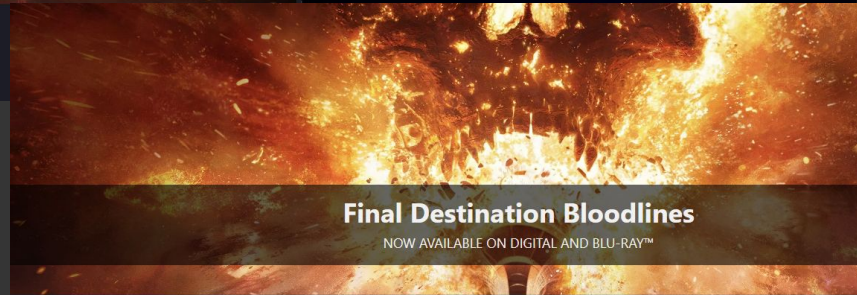
Start Exploring



Trending

Movie Explorer

Presented By: Rima Dagher, Ritu Arora



Final Destination Bloodlines

NOW AVAILABLE ON DIGITAL AND BLU-RAY™



Final Destination Bloodlines



Rating: 7.202/10

Runtime: 109 min

Release Date: 2025-05-14

Genres: Horror, Mystery

Plagued by a violent recurring nightmare, college student Stef be able to break the cycle and save her family from the grisly

Production: New Line Cinema, Practical Pictures, Freshman Ye

Project Overview

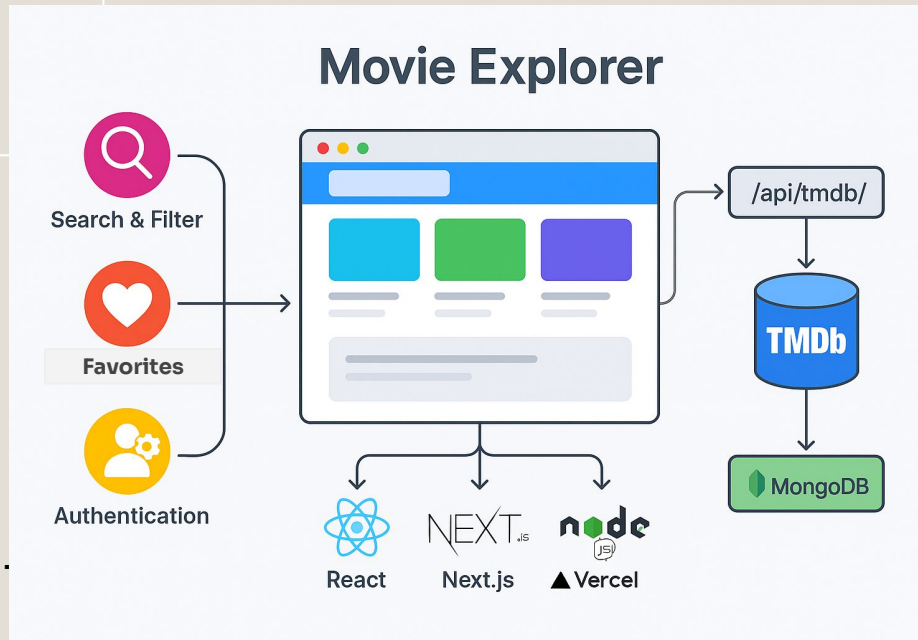
Goal: Build a modern movie browsing platform using TMDB API.

Features:

- Discover and search movies with dynamic filters.
- View trending and popular movies.
- Secure login with credentials or Google OAuth.
- Add/remove favorites (stored in-memory).
- Visual toasts for real-time feedback.

Backend Highlights:

- TMDB API proxying to hide API keys.
- MongoDB used for storing registered user accounts.



Project Structure

movie-explorer-next/

```
├── .env.local .gitignore next.config.js package.json tailwind.config.js postcss.config.js
├── public/
├── src/
│   ├── app/
│   │   ├── layout.js page.js
│   │   ├── search/page.js
│   │   ├── movie/[id]/page.js
│   │   ├── favorites/page.js
│   │   ├── login/page.js
│   │   ├── register/page.js
│   │   └── api/
│   │       ├── auth/[...nextauth]/route.js
│   │       ├── auth/register/route.js
│   │       └── tmdb/
│   │           ├── discover/route.js
│   │           ├── search/route.js
│   │           ├── popular/route.js
│   │           ├── trending/route.js
│   │           └── movies/[id]/route.js
│   ├── components/
│   │   ├── NavBar.js MovieCard.js MovieSection.js Pagination.js
│   │   ├── SearchBar.js SearchFilters.js Favorites.js
│   │   └── LoginForm.js RegisterForm.js
│   ├── context/FavoritesContext.js SearchContext.js
│   ├── hooks/useUnifiedSearch.js usePopularMovies.js
│   ├── lib/auth.config.js mongodb.js
│   ├── models/user.js
│   └── services/movieApi.js
```

Authentication - Login & Registration

Secure Registration/Login:

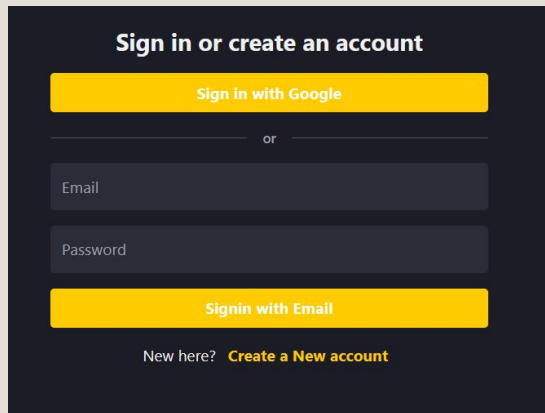
- Users can sign up with email/password.
- Passwords are hashed before storing in MongoDB.

Google OAuth Integration:

- One-click sign-in using Google.

Session Management:

- Handled via `NextAuth.js` with secure JWT tokens.



Sign in or create an account

Sign in with Google

or

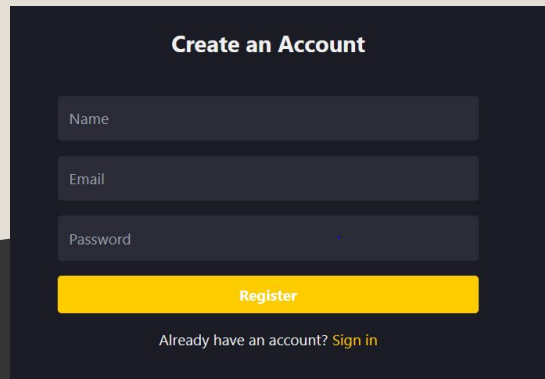
Email

Password

Signin with Email

New here? [Create a New account](#)

This form is a dark-themed login and registration interface. It features a yellow button for 'Sign in with Google' at the top, followed by a horizontal line with the word 'or' in the center. Below this are two dark input fields for 'Email' and 'Password'. Another yellow button labeled 'Signin with Email' is positioned below the input fields. At the bottom, there is a link 'New here? Create a New account'.



Create an Account

Name

Email

Password

Register

Already have an account? [Sign in](#)

This form is a dark-themed registration interface. It contains three dark input fields for 'Name', 'Email', and 'Password'. Below these fields is a yellow button labeled 'Register'. At the bottom, there is a link 'Already have an account? Sign in'.

Movie Discovery & Search

Search Functionality:

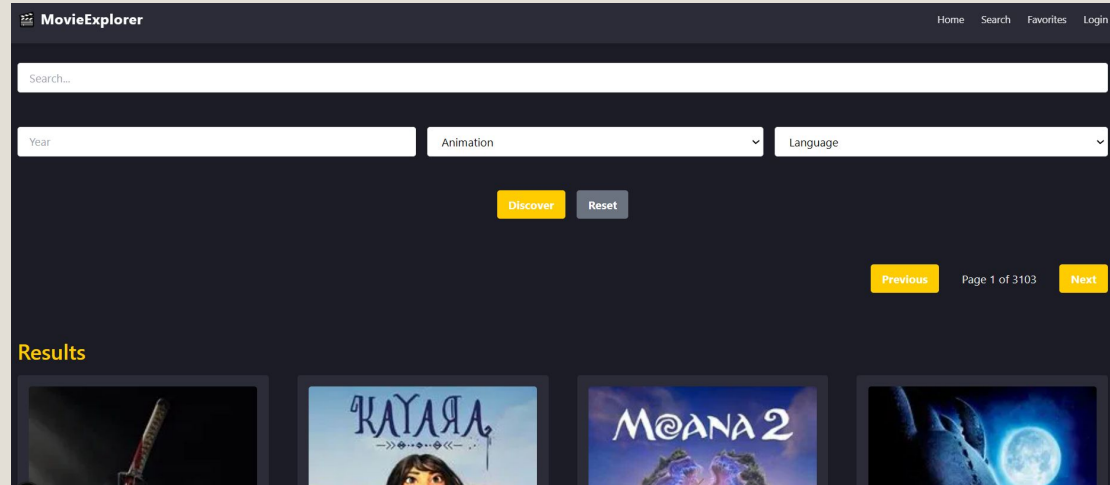
- Full-text search by movie title.

Dynamic Filters:

- Genre, release year, original language.

Combined Search + Filters:

- Filters apply on both discover and search endpoints.



Backend Proxy and API Security

Why Proxy?

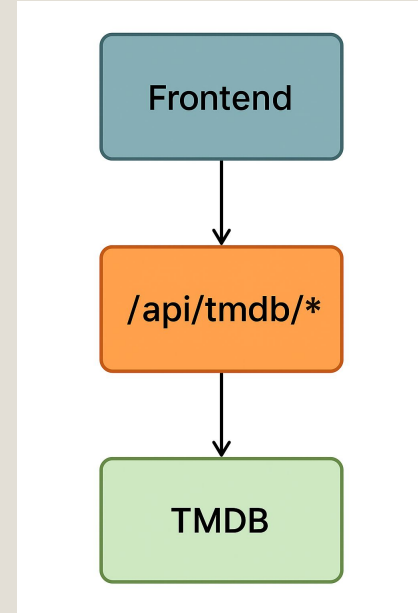
- TMDB API key is hidden from frontend.

Custom API Routes:

- `/api/tmdb/popular`, `/discover`, etc.

Dynamic Query Support:

- TMDB parameters passed from frontend (genre, year, etc.).



State Management & UI Enhancements

State Management:

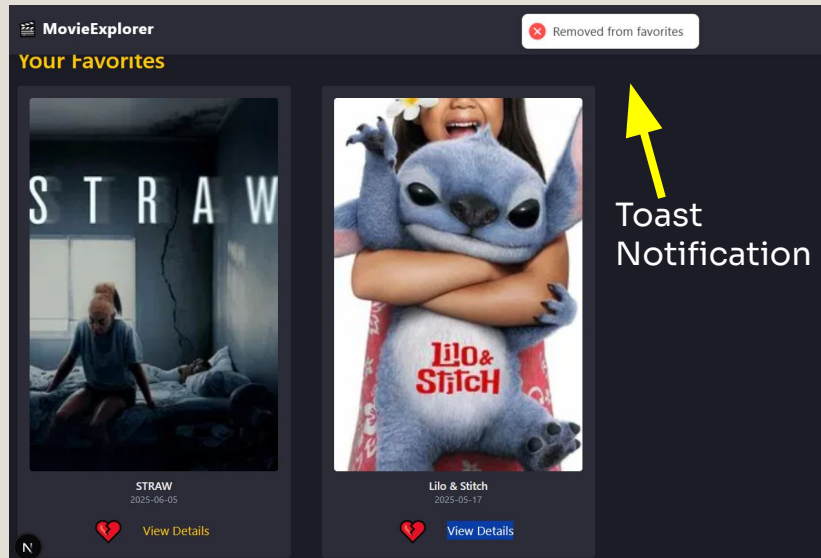
- `SearchContext` for shared search/filter state.
- `useUnifiedSearch` hook to manage API calls.

User Feedback:

- Toast notifications for login, errors, favorites.

Responsive Design:

- Mobile-friendly layout with Tailwind CSS.



Database Integration - MongoDB

User Data Persistence:

- User credentials stored securely in MongoDB Atlas.

Current Scope:

- Favorites are stored in-memory (not yet persisted).

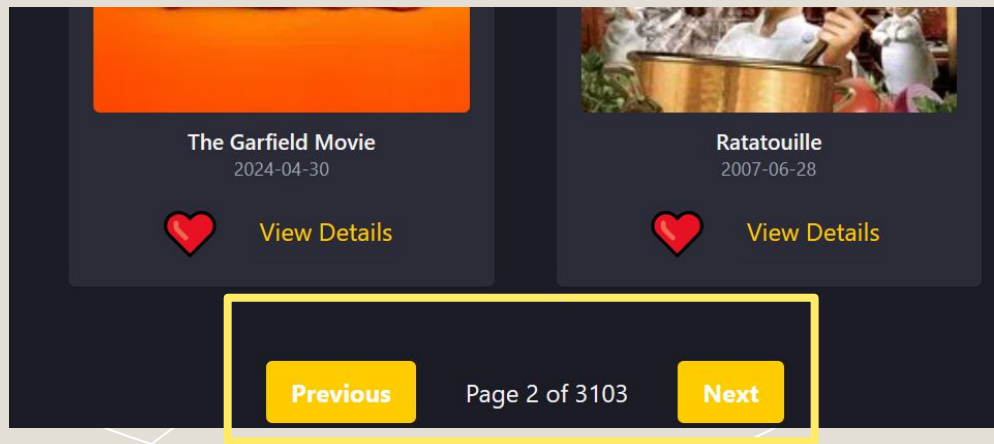
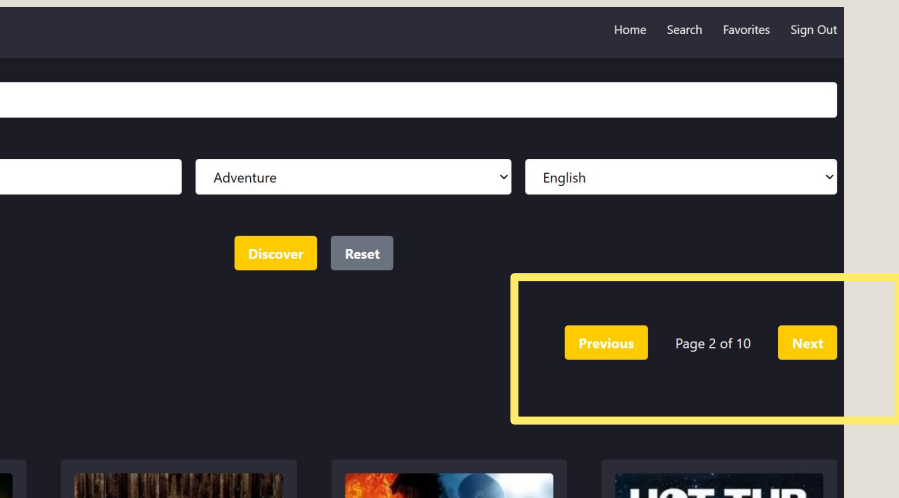
Security Focus:

- Only authenticated users can manage favorites.

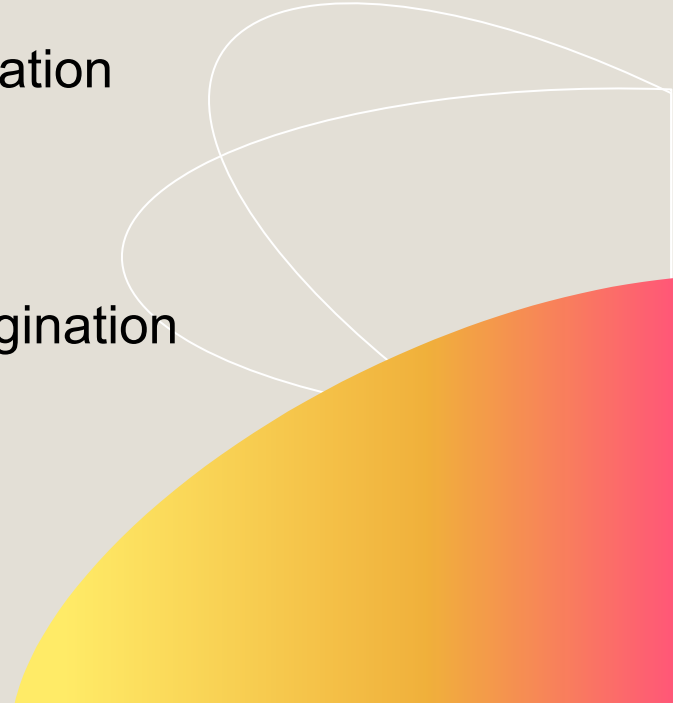


Pagination for better UX

- Splits large movie results into manageable pages
- Prevents UI clutter and improves load performance
- Works with both search and discover results
- Uses **Pagination** component with `currentPage` and `totalPages`
- Supports dynamic interaction via `updatePage()`



Summary & Learnings

- Next.js App Router with server & client components
 - Secure auth with NextAuth & MongoDB integration
 - Robust TMDB proxying & filter/search logic
 - Real-time UX with React hooks, toast, and pagination
- 



Thank you