Netflix Clone

A comprehensive Netflix clone built with React, TypeScript, and TailwindCSS featuring a professional streaming platform interface with working video playback functionality.



View Live Site



Core Netflix Experience

- Authentic Netflix UI Design: Dark theme with signature red accent colors
- · Responsive Layout: Adapts perfectly to desktop, tablet, and mobile devices
- Netflix-Style Navigation: Fixed header with search, notifications, and user profile

i Video & Content Features

- Featured Hero Section: Large video background with movie details and action buttons
- Working Video Player: Full-featured HTML5 video player with:
- Play/pause controls
- Volume control with mute toggle
- Seek bar for timeline navigation
- Fullscreen support
- Skip forward/backward (10s)

- · Horizontal Content Rows: Smooth scrolling movie collections by category
- Interactive Movie Cards: Hover effects revealing video previews and detailed information

Interactive Features

- Smart Search: Real-time search across all content with results display
- Movie Information Modals: Detailed popup with cast, genres, and recommendations
- Content Categories:
- Trending Now
- Popular on Netflix
- Netflix Originals
- Action & Adventure
- **Smooth Animations**: Professional transitions and hover effects

🎨 Design Excellence

- Netflix Brand Colors: Authentic #E50914 red and dark theme palette
- Modern Typography: Clean, readable fonts matching Netflix's style
- Professional Layout: Pixel-perfect recreation of Netflix's interface
- Visual Hierarchy: Clear content organization and navigation flow

X Tech Stack

- Frontend Framework: React 18.3 with TypeScript
- Build Tool: Vite 6.0 for fast development and optimized builds
- Styling: TailwindCSS with custom Netflix color scheme
- **UI Components**: Radix UI component library for accessible interactions
- Icons: Lucide React for consistent iconography

State Management: React hooks and context for client-side state

Responsive Design

The application is fully responsive and optimized for:

- **Desktop**: Full-featured experience with all interactive elements
- Tablet: Adapted layout maintaining functionality
- Mobile: Touch-optimized interface with mobile navigation

© Key Components

NetflixHeader

- Fixed navigation with scroll effects
- Search functionality with expandable input
- User profile and notification areas

HeroSection

- Full-screen featured content display
- Video background with gradient overlays
- Call-to-action buttons (Play, More Info, My List)

VideoPlayer

- · Custom HTML5 video player
- · Professional playback controls
- Fallback to working sample videos

MovieCard

Thumbnail display with hover expansion

- Interactive buttons and information overlay
- Smooth animations and transitions

ContentRow

- Horizontal scrolling movie collections
- · Navigation arrows for content browsing
- Category-based organization

MovieModal

- Detailed content information popup
- · Cast and crew details
- "More Like This" recommendations section

Getting Started

Prerequisites

- Node.js (v18 or higher)
- pnpm package manager

Installation

```
# Clone the repository
git clone <repository-url>
cd netflix-clone

# Install dependencies
pnpm install

# Start development server
pnpm dev

# Build for production
pnpm build
```

Development Server

```
pnpm dev
# Open http://localhost:5173
```

Production Build

```
pnpm build
# Output in /dist directory
```

Project Structure

```
netflix-clone/
  – public/
   ├─ data/
      └─ movies.json
                            # Sample movie/show data
   └─ images/
                              # Movie thumbnails and assets
  - src/

    ── components/
       ├─ ui/
                              # Reusable UI components
       ├─ NetflixHeader.tsx
                              # Main navigation
      HeroSection.tsx
                             # Featured content section
   ├── VideoPlayer.tsx # Custom video player
                            # Individual movie cards
      ├── MovieCard.tsx
                              # Horizontal content rows
      ContentRow.tsx
      └── MovieModal.tsx
                              # Detailed content popup
   ├─ App.tsx
                              # Main application component
   ├─ index.css
                              # Global styles and Netflix theme
   └─ main.tsx
                              # Application entry point
 - dist/
                              # Production build output
```

Design System

Colors

- Netflix Red: #E50914 (primary brand color)
- Netflix Black: #141414 (dark backgrounds)
- Netflix Dark: #000000 (deepest black)
- Netflix Gray: #333333 (secondary elements)
- Netflix Light Gray: #b3b3b3 (text and borders)

Typography

- Font Family: Sans-serif system fonts
- Sizes: Responsive scaling from mobile to desktop
- · Weights: Regular, medium, semibold, and bold variants



Features Implementation

Video Playback

- Uses HTML5 video elements with custom controls
- Fallback to Google Cloud Storage sample videos
- · Supports autoplay, muting, and loop functionality
- Error handling with graceful degradation

Search Functionality

- Real-time filtering across all content
- Search by title and genre
- Results display with grid layout
- Clear search state management

Responsive Design

- Mobile-first approach with progressive enhancement
- Breakpoint-based layout adjustments
- Touch-optimized interactions for mobile devices
- · Fluid typography and spacing



- Optimized Images: Proper image loading and fallbacks
- Code Splitting: Efficient bundle management with Vite
- · Lazy Loading: Content loaded as needed
- Smooth Animations: Hardware-accelerated transitions
- · SEO Ready: Proper meta tags and structure

Future Enhancements

- · User authentication and profiles
- · Personal watchlists and favorites
- Recommendation algorithms
- Content rating and reviews
- Multi-language support
- Offline viewing capabilities
- Social sharing features

License

This project is created for educational and demonstration purposes, showcasing modern web development techniques and Netflix-inspired design patterns.

Built with wusing React, TypeScript, and TailwindCSS