# Netflix Clone

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

## 🚀 Live Demo

[**View Live Site**](https://t5cs4g4t83.space.minimax.io)

## ✨ Features

### 🎬 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

### 📺 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

## 🛠️ 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  
│ │ ├── MovieCard.tsx # Individual movie cards  
│ │ ├── ContentRow.tsx # Horizontal content rows  
│ │ └── 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

## 🌟 Performance Features

* **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 ❤️ using React, TypeScript, and TailwindCSS**