

Web Design Project 1



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Introduction

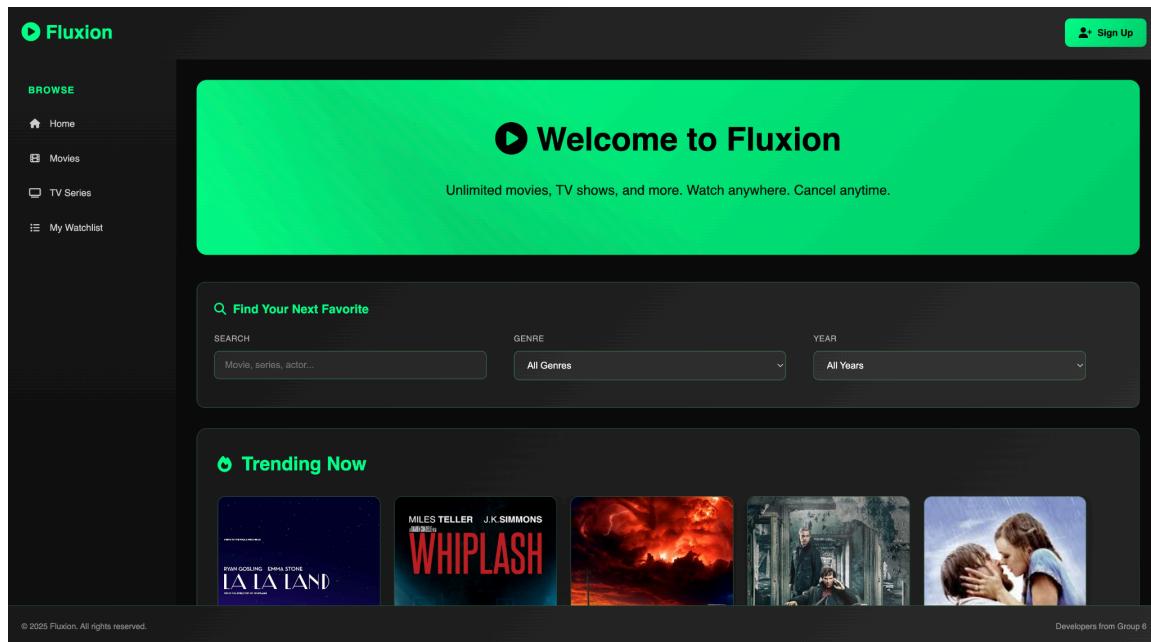
Fluxion is a Netflix-style movie and TV series streaming platform built as an educational web development project. The website allows users to browse, discover, and watch movies and series through a modern dark-themed interface with vibrant green accents.

The platform serves as an entertainment hub with a curated collection of movies and TV series. Users can search and filter content by genres, ratings, and other criteria. The website features a professional dark theme design with green accent colors (#00ff88) that creates an engaging visual experience.

As an educational project, Fluxion demonstrates mastery of HTML5, CSS3, and web development principles using traditional frameset architecture. The platform is fully responsive, working across desktop, tablet, and mobile devices. It includes complete HTML5 form validation, 10 individual watch pages with embedded video players, and a comprehensive sign-up system with multiple subscription tiers.

Page-by-page Analysis

Master Frameset (index.html)

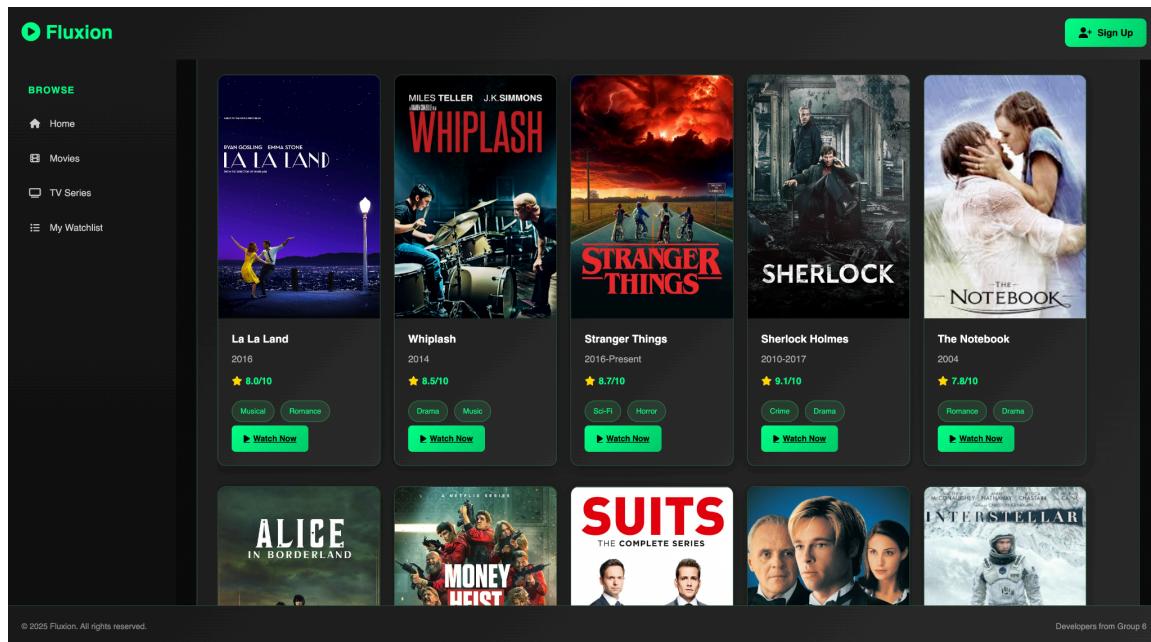


The master frameset is the main entry point that creates the website's four-section layout using traditional HTML frameset architecture. The layout includes a header frame (80px height) with branding and sign-up functionality, a navigation frame (250px width) with

the sidebar menu, a content frame that loads different pages dynamically, and a footer frame (60px height) with copyright information.

Key features include internal CSS for frame styling, a noframes fallback for browser compatibility, automatic loading of home.html as the default page, and responsive design that adapts to different screen sizes. The technical implementation uses external CSS, Google Fonts (Poppins), Font Awesome icons, and gradient backgrounds for a professional appearance.

Home Page (home.html)



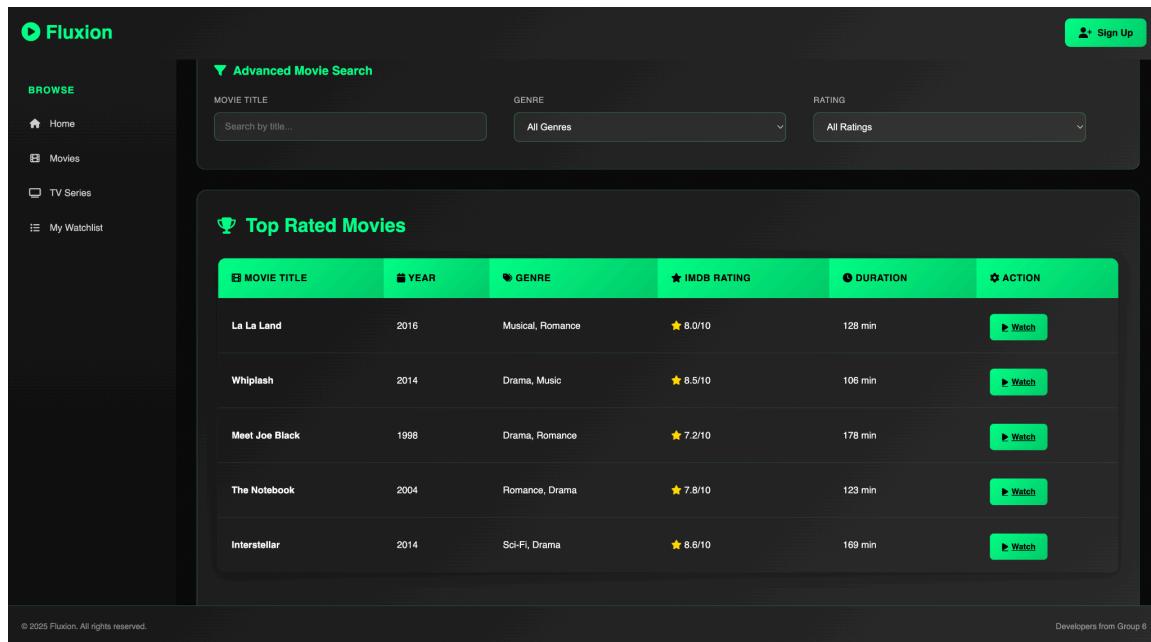
The home page is the main landing page and content discovery hub. It features a hero banner with animated shimmer effects and the tagline "Unlimited movies, TV shows, and more. Watch anywhere. Cancel anytime."

The search and filter system includes a text search field for movies, series, and actors, a genre filter with options (Action, Comedy, Drama, Horror, Sci-Fi, Thriller), and a year filter (2021-2025). The trending content grid displays 10 featured titles in a responsive layout, including La La Land (2016, Musical/Romance, 8.0/10), Whiplash (2014, Drama/Music, 8.5/10), Stranger Things (2016-Present, Sci-Fi/Horror, 8.7/10), Sherlock Holmes (2010-2017, Crime/Drama, 9.1/10), The Notebook (2004, Romance/Drama, 7.8/10), Alice in Borderland (2020-Present, Sci-Fi/Thriller, 7.6/10), Money Heist (2017-2021, Crime/Thriller, 8.3/10), The Suits (2011-2019, Drama/Comedy, 8.5/10),

Meet Joe Black (1998, Drama/Romance, 7.2/10), and Interstellar (2014, Sci-Fi/Drama, 8.6/10).

Each content card shows movie posters, titles, years, IMDb ratings with stars, genre badges, and "Watch Now" buttons. The "Why Choose Fluxion" section highlights key features like unlimited streaming, multi-device access, HD/4K quality, and offline downloads in a two-column layout. Technical features include inline CSS with shimmer animations, responsive grid system, hover effects, and Font Awesome icons.

Movie Page (movies.html)



The screenshot shows the Fluxion movie page. On the left, there's a sidebar with a logo, a sign-up button, and navigation links for Home, Movies, TV Series, and My Watchlist. The main content area has a hero banner with the text "Top Rated Movies". Below it is a table with five rows, each representing a movie: La La Land, Whiplash, Meet Joe Black, The Notebook, and Interstellar. Each row includes the movie title with a film icon, the year with a calendar icon, genre tags, an IMDb rating with stars, duration with a clock icon, and a "Watch" button.

MOVIE TITLE	YEAR	GENRE	IMDB RATING	DURATION	ACTION
La La Land	2016	Musical, Romance	★ 8.0/10	128 min	<button>Watch</button>
Whiplash	2014	Drama, Music	★ 8.5/10	106 min	<button>Watch</button>
Meet Joe Black	1998	Drama, Romance	★ 7.2/10	178 min	<button>Watch</button>
The Notebook	2004	Romance, Drama	★ 7.8/10	123 min	<button>Watch</button>
Interstellar	2014	Sci-Fi, Drama	★ 8.6/10	169 min	<button>Watch</button>

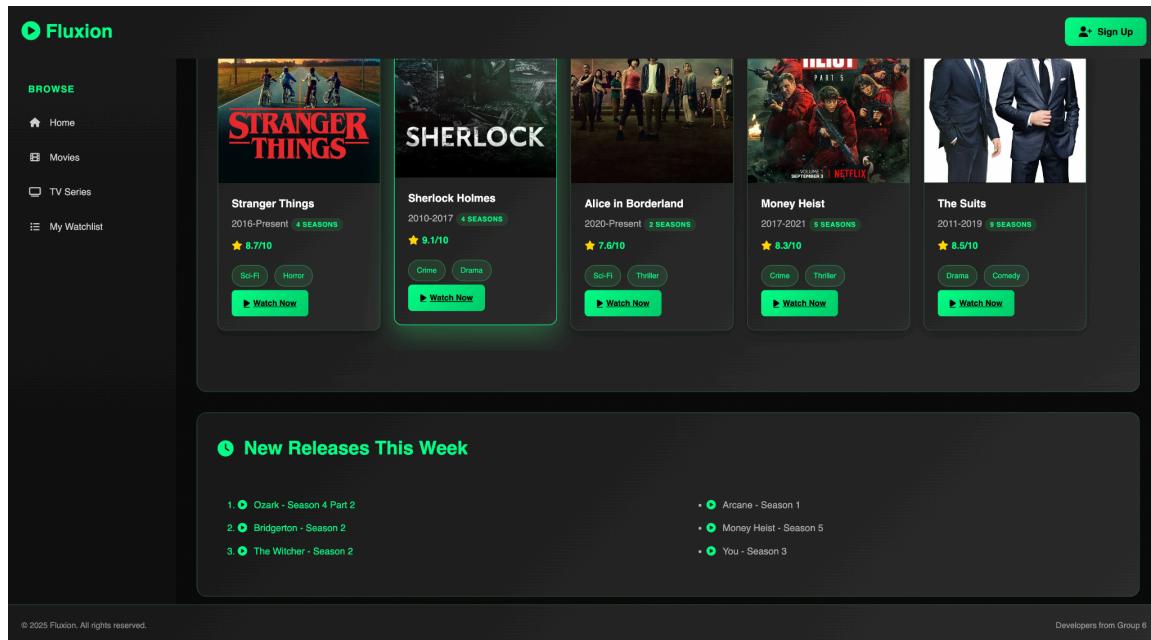
The movies page is dedicated to browsing and discovering movie content. It features a "Movies Collection" hero banner with film icon and gradient styling.

A statistics dashboard shows 5 movies, 25+ genres, 4K quality, and 24/7 availability. The advanced search includes movie title search, genre filter (Action & Adventure, Comedy, Drama, Horror, Sci-Fi & Fantasy, Thriller, Romance, Documentary), and rating filter (9.0+, 8.0+, 7.0+, 6.0+).

The top rated movies table displays five featured titles: La La Land (2016, Musical/Romance, 8.0/10, 128 min), Whiplash (2014, Drama/Music, 8.5/10, 106 min), Meet Joe Black (1998, Drama/Romance, 7.2/10, 178 min), The Notebook (2004, Romance/Drama, 7.8/10, 123 min), and Interstellar (2014, Sci-Fi/Drama, 8.6/10, 169 min). Each row includes movie title with film icon, year with calendar icon, genre tags, IMDb rating with stars, duration with clock icon, and "Watch" button.

The browse by genre section shows genre categories with movie counts in two columns: Action & Adventure (1,250), Comedy (980), Drama (1,500), Horror (650), Sci-Fi & Fantasy (420), Romance (750), Thriller (580), and Documentary (320). Technical features include inline CSS for statistics styling, professional table design with hover effects, responsive layout, and Font Awesome icons.

Series Page (series.html)

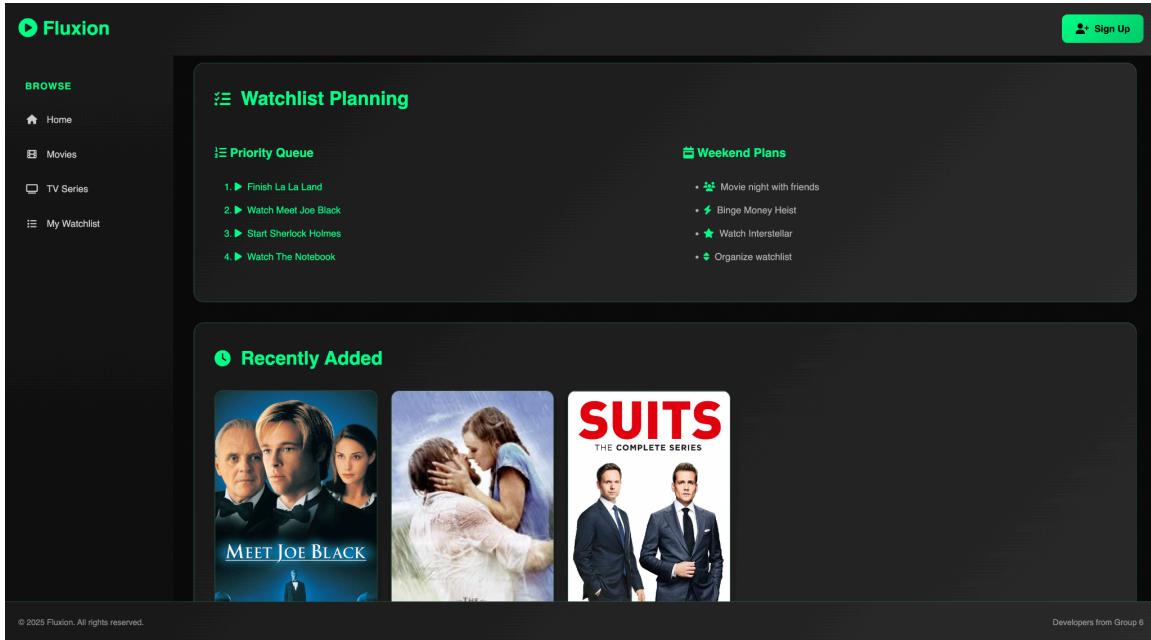


The series page focuses on TV series content with season details and status tracking. It features a "TV Series Collection" hero banner with TV icon and binge-watching emphasis.

The search interface includes series title search, genre filter (Crime, Drama, Comedy, Sci-Fi, Fantasy, Thriller, Horror), and status filter (Ongoing, Completed, New Releases).

The popular series grid displays five featured series: Stranger Things (2016-Present, 4 Seasons, Sci-Fi/Horror, 8.7/10, ongoing), Sherlock Holmes (2010-2017, 4 Seasons, Crime/Drama, 9.1/10, completed), Alice in Borderland (2020-Present, 2 Seasons, Sci-Fi/Thriller, 7.6/10, ongoing), Money Heist (2017-2021, 5 Seasons, Crime/Thriller, 8.3/10, completed), and The Suits (2011-2019, 9 Seasons, Drama/Comedy, 8.5/10, completed).

Playlist Page (playlist.html)



The playlist page is a personal watchlist management system for tracking viewing progress and planning future content. It features a "My Watchlist" hero banner with list icon and user-focused messaging.

A statistics dashboard shows 24 items in progress, 156 completed, 89 to watch, and 12 favorites. The currently watching section displays three items with progress bars: La La Land (45% progress, Musical/Romance, 8.0/10), Stranger Things (40% progress, Sci-Fi/Horror, 8.7/10), and Whiplash (30% progress, Drama/Music, 8.5/10).

The watchlist planning section has two columns: a priority queue (finish La La Land, watch Meet Joe Black, start Sherlock Holmes, watch The Notebook) and weekend plans (movie night with friends, binge Money Heist, watch Interstellar, organize watchlist).

The recently added section shows Meet Joe Black (1998, Drama/Romance, 7.2/10), The Notebook (2004, Romance/Drama, 7.8/10), and The Suits (2011-2019, Drama/Comedy, 8.5/10). Technical features include custom progress bar styling, statistics dashboard with gradient backgrounds, responsive grid layout, and interactive planning tools.

Sign Up Page (signup.html)

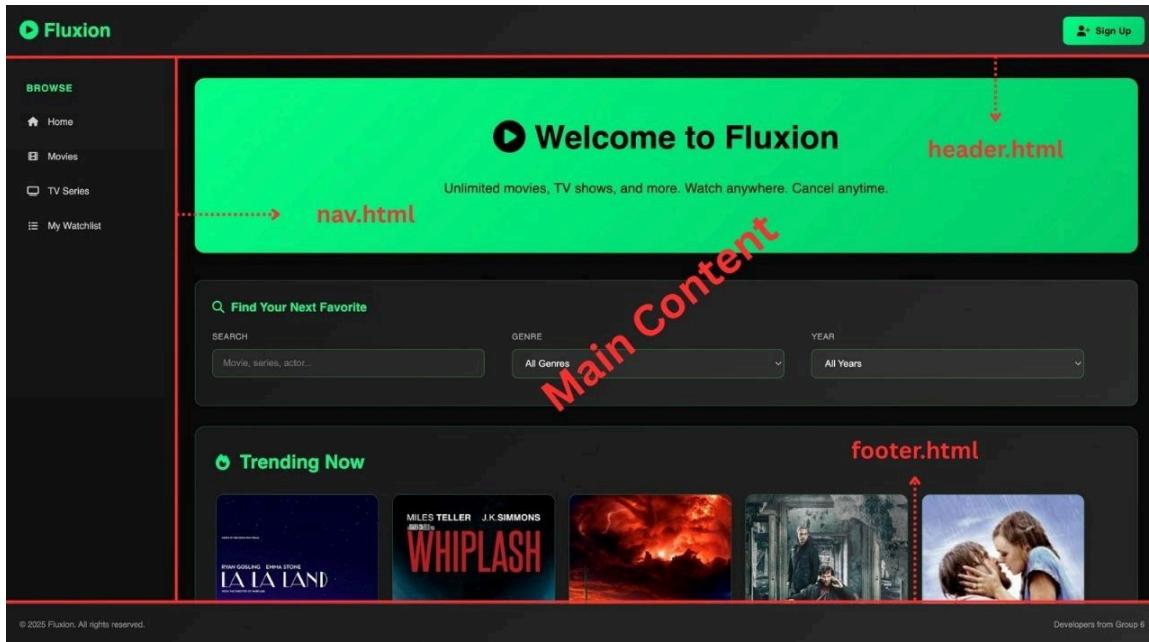
The sign-up page is a comprehensive user registration system with complete HTML5 form validation and modern UI design. It features a navigation bar with Fluxion logo and "Back to Home" button.

The registration form uses a two-column responsive layout. Column 1 includes username (3-20 chars, alphanumeric + underscore), email (standard validation), password (8+ chars, uppercase, lowercase, number), and confirm password (pattern matching). Column 2 includes bio (optional, 200 char limit), subscription plan (Basic, Premium, Ultimate radio buttons), interests (Movies, Series, Documentaries checkboxes), and country (dropdown selection).

Full-width elements include required terms and conditions checkbox and gradient-styled submit button with hover effects. Form validation features HTML5 native validation with no JavaScript dependencies, visual feedback (green/red borders), real-time validation, pattern matching, and required field indicators (red asterisks).

Technical features include responsive CSS Grid design, custom validation styling, smooth transitions and hover effects, professional form design, and mobile-optimized layout.

Navigation Components



Header Component (header.html)

The header component provides branding and user account access throughout the website. It includes a logo section with Fluxion branding and play circle icon, and a user section with Sign Up button and user-plus icon. Features include 80px fixed height, gradient background, hover effects, responsive design, and links to home page and sign-up form. Technical implementation uses internal CSS, flexbox layout, Font Awesome icons, and smooth transitions.

Navigation Component (nav.html)

The navigation component is the sidebar navigation system with main site navigation and filtering options. It includes a browse section with navigation items: Home (home icon), Movies (film icon), TV Series (TV icon), and My Watchlist (list icon). Features include 250px fixed width, gradient background, hover effects with slide animation, icon-based navigation, and smooth transitions. Technical implementation uses internal CSS, list-based navigation structure, hover animations with transform effects, and consistent iconography.

Footer Component (footer.html)

The footer component provides copyright and developer information with consistent visual design. It includes a left section with copyright notice and right section with developer credits. Features include 60px fixed height, gradient background, border top styling, minimalist design, and professional presentation. Technical implementation uses internal CSS, flexbox layout, consistent color scheme, and simple clean design.

Technical Architecture and Implementation

CSS Implementation Methods

The website implements all three CSS methods as required. External CSS (assets/css/styles.css) handles main theme, component styling, global styles, responsive design, color scheme, and typography. Internal CSS (style tags in components) handles header, navigation, and footer styling, component-specific styles, and frameset styling in index.html. Inline CSS (style attributes) provides page-specific enhancements, watch page styling, sign-up form styling, and responsive adjustments.

Design System

The design system uses deep black backgrounds (#000000, #1a1a1a) with vibrant green accents (#00ff88) for a sophisticated appearance. Typography uses Poppins font family with weights 300, 400, 500, 600, and 700. Components include consistent card designs, buttons, and form elements. Animations feature smooth transitions, hover effects, and shimmer effects.

Form Validation

The form validation system uses HTML5 native validation with no JavaScript dependencies. Features include pattern matching for usernames and passwords, visual feedback (green/red borders), real-time validation, and accessibility features (proper labels and form structure).

Conclusion

Fluxion is a movie streaming website that combines traditional HTML structure with modern design. It includes multiple pages, user forms, video players, and a dark, Netflix-style theme. The site shows strong skills in HTML5 and CSS3, with a responsive layout, clear navigation, and proper accessibility.

Overall, Fluxion proves that a professional and functional streaming platform can be built using clean, validated HTML and CSS balancing both educational goals and real-world usability.