

Front-End UI/UX Mini Project

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TOPIC

Photo Gallery

Movie Review Website

- **Description:** Create a movie review website where users can browse movies, read reviews, and submit their own ratings and comments.
- **Features:**
- **Movie Listing:** Show movies with posters, titles, and brief descriptions.
- **Review Section:** Display user reviews with ratings and comments.
- **Submit Review Form:** Allow users to add their own reviews and star ratings.
- **Search & Filter:** Enable searching movies by title or genre.
- **Responsive Layout:** Ensure the site looks great on all screen sizes using Bootstrap.
- **Technologies Used:** HTML, CSS, JavaScript, Bootstrap, jQuery

GITHUB LINK:

<https://github.com/ChrisGeorgeThomas/LNT>

2. Abstract

This project involves the development of a Movie Review Website, a dynamic web application designed to provide users with a seamless platform to explore various movies by viewing their posters, titles, and descriptions, alongside reading and submitting reviews. The system enhances user interaction through a responsive interface that supports searching and filtering movies, displaying detailed movie information and user-generated reviews in modals, and accepting new reviews including star ratings. This site aims to foster a community of movie enthusiasts who can share opinions and discover new films in an engaging, accessible manner.

3. Objectives

- To develop a fully responsive movie browsing website accessible across devices.
- To create an intuitive UI that efficiently displays movie lists with accompanying posters and succinct descriptions.
- To implement a robust search functionality enabling users to filter movies by title or genre dynamically.
- To provide a review management system allowing users to view and submit textual reviews with star ratings.
- To design and develop modular components like modals for presenting detailed movie and review information without navigating away from the main page.
- To build an aesthetic dark theme using Tailwind CSS and Bootstrap that improves readability and user experience.

5. Tools & Technologies Used

| Tool/Technology | Purpose |
|------------------|---|
| HTML5 | Structure and layout of the website |
| CSS3 | Design, styling, and responsiveness |
| VS Code | Writing and editing code |
| Chrome DevTools | Testing and viewing the website |
| Bootstrap 5 | Predefined responsive grid system and UI components |
| JavaScript (ES6) | User Interface,interactivity |

| jQuery | Simplified DOM manipulation and event handling |
|--------|--|
|--------|--|

- HTML5 for webpage structure, semantic tags for clarity and accessibility.
- CSS3 with Tailwind CSS utility classes and Bootstrap framework for styling, grids, and responsive layouts.
- JavaScript to manage dynamic content rendering including movie display filtering, review additions, and modal toggling.
- jQuery for DOM manipulation and event handling simplifying cross-browser compatibility.
- External movie poster APIs for retrieving image resources.

6. HTML Structure Overview

The core structure comprises a header section with a clearly labeled site title and a search input that triggers live filtering.

The main content section contains a grid container displaying movie cards, each populated dynamically from a JavaScript array of movie objects.

Each card includes a poster, movie title, and a brief description snippet. Below this, a hidden modal dialog is coded with accessibility considerations, designed to overlay the screen and present detailed movie information, a larger poster image, and a review section.

This review section accommodates a list of existing reviews and a form with a text area and button for adding new reviews.

The structure supports smooth user interaction and content expansion without page reloads.

7. CSS Styling Strategy

The design employs Tailwind CSS extensively for fast prototype styling and consistent aesthetics including margins, padding, rounded corners, shadows, and responsive grids.

The dark theme uses gray and black backgrounds with white text for contrast and focus.

The grid adapts from single column on small devices to multiple columns on larger screens, enhancing usability.

The modal overlay applies semi-transparent black background for focus isolation. Review inputs and buttons are styled for clarity and ease of use.

Transitions and hover effects improve the interactive feel.

- Used external stylesheet (style.css) with well-structured selectors.
- Defined CSS variables for color themes (light/dark mode).
- Applied Bootstrap grid and utility classes for responsive layout.
- Used Flexbox for alignment in topbar, sidebar, and task rows.
- Added hover effects and transitions for buttons and task rows.
- Ensured responsiveness with media queries (sidebar becomes horizontal on small screens).

8. Key Features

| Feature | Description |
|--------------------------------------|--|
| Responsive Design | Adapts seamlessly to all screen sizes, from mobile to desktop. |
| Smooth Navigation | Fixed top navigation bar with anchor links for quick section access. |
| Band Member Profiles | Stylish layout with hover effects for each member's profile. |
| Contact Form (non-functional) | Placeholder layout for inputs and button |
| Accessible Fonts & Colors | High contrast and readable typography |

- Dynamic movie listing with visually engaging posters and concise descriptions to encourage exploration.
- Real-time search functionality that filters the displayed movies as the user types.
- Detailed modal windows that display extended movie information alongside active review sections.
- User-generated review submission with star ratings methodology allowing community feedback.
- Responsive design ensures a uniform experience across smartphones, tablets, and desktops, adapting layout and UI components fluidly.

- Persistent review management in the browser runtime, storing reviews per movie and reflecting them in the UI immediately.

9. Challenges Faced & Solutions

- Efficiently filtering movies required careful handling of DOM updates to avoid performance lags. This was solved by adding debounce to the search input handler and minimizing reflow/repaint impact.
- Designing a modal that could elegantly show and hide with state management was tricky; toggling CSS classes combined with JavaScript event listeners provided a smooth user experience.
- Associating reviews correctly to individual movies involved structuring data as an object indexed by movie titles, ensuring accurate retrieval and display.
- Balancing comprehensive styling with responsiveness needed rigorous testing using Tailwind's grid and utility classes to deliver consistent appearance at different screen sizes.

10. Outcome

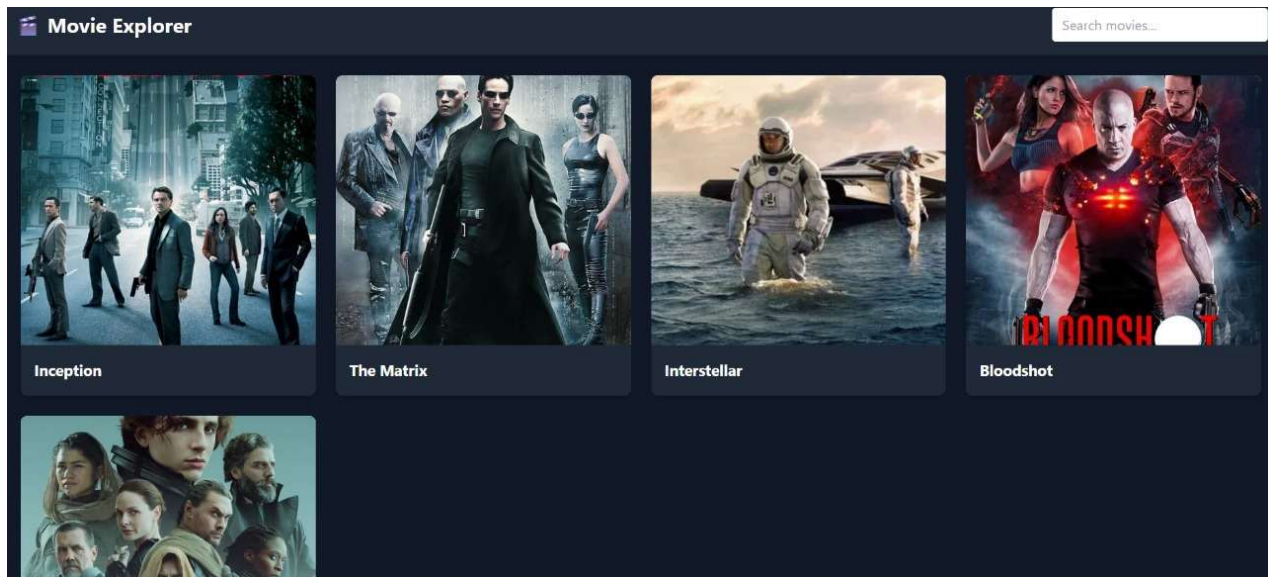
The project culminated in a feature-rich movie review website that meets the initial vision of an interactive movie exploration platform. Users can quickly find movies they are interested in, see detailed information without navigation, and contribute reviews that enrich the community value. The layout and styling deliver a modern, polished look that performs well on diverse devices.

11. Future Enhancements Future

Enhancements:

- Implement backend services for user authentication and persistent review storage using database integration.
- Add functionality to rate reviews for helpfulness and enable user profile management.
- Expand filtering options by genre, release year, and rating to refine searches.
- Integrate star rating visualization with graphic icons and average review displays per movie.
- Enhance accessibility features, such as keyboard navigation and screen reader support.
- Include animations for modal transitions and review addition for smoother user interactions.

OUTPUT SCREEN



12. Sample Code

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Movie Explorer</title>
7    <script src="https://cdn.tailwindcss.com"></script>
8  </head>
9  <body class="bg-gray-900 text-white">
10
11    <!-- Header -->
12    <header class="p-4 bg-gray-800 shadow-lg flex justify-between items-center">
13      <h1 class="text-2xl font-bold">🎬 Movie Explorer</h1>
14      <input id="searchInput" type="text" placeholder="Search movies..."
15        class="px-3 py-2 rounded text-black w-64">
16    </header>
17
18    <!-- Movie Grid -->
19    <main class="p-6">
20      <div id="movieGrid" class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6"></div>
21    </main>
22
23    <!-- Movie Modal -->
24    <div id="movieModal" class="fixed inset-0 bg-black bg-opacity-70 flex items-center justify-center hidden">
25      <div class="bg-white text-black p-6 rounded-lg w-96 relative">
26        <button id="closeModal" class="absolute top-2 right-2 text-xl font-bold">✕</button>
27        <img id="modalPoster" src="" alt="Movie Poster" class="w-full h-72 object-cover rounded">
28        <h2 id="modalTitle" class="text-2xl font-bold mt-4"></h2>
29        <p id="modalDescription" class="mt-2"></p>
30
31        <!-- Reviews Section -->
32        <div class="mt-4">
33          <h3 class="font-semibold">Reviews:</h3>
34          <ul id="reviewList" class="list-disc ml-5 text-sm"></ul>
35          <textarea id="reviewInput" placeholder="Write a review..."
36            class="w-full border mt-2 p-2 rounded"></textarea>
37          <button id="addReviewBtn" class="bg-blue-600 text-white px-3 py-1 rounded mt-2">Add Review</button>

```



```

42 <script>
43   const movies = [
44     {
45       title: "Inception",
46       poster: "https://image.tmdb.org/t/p/w500/edv5CZvwj09up0sy2Y6IwDhK8bt.jpg",
47       description: "A thief who enters the dreams of others to steal secrets from their subconscious is offered a job that could give him his life back."
48     },
49     {
50       title: "The Matrix",
51       poster: "https://image.tmdb.org/t/p/w500/f89U3ADr1oIB1s9GkdPOEpXUK5H.jpg",
52       description: "A computer hacker learns from mysterious rebels about the true nature of his reality and his role in the war against its controllers."
53     },
54     {
55       title: "Interstellar",
56       poster: "https://image.tmdb.org/t/p/w500/rA1YtFKgqDCRIIqo664sY9X7IvQ.jpg",
57       description: "A team of explorers travels through a wormhole in space in an attempt to ensure humanity's survival."
58     },
59     {
60       title: "Bloodshot",
61       poster: "https://image.tmdb.org/t/p/w500/8MUJHemHFH2ZIP6Mkw1HmsyrEL.jpg",
62       description: "Ray Garrison, an elite soldier killed in battle, is resurrected and given superhuman abilities. As he sets out to get revenge, he uncovers s
63     },
64     {
65       title: "Dune",
66       poster: "https://image.tmdb.org/t/p/w500/d5RXSk1Xo0qyIYkgV94XAqMickC.jpg",
67       description: "A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes tormented by prophetic visions."
68     },
69     {
70       title: "Dune",
71       poster: "https://image.tmdb.org/t/p/w500/d5RXSk1Xo0qyIYkgV94XAqMickC.jpg",
72       description: "A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes tormented by prophetic visions."
73     },
74   ];
75   const reviews = {}; // store reviews per movie
76   const movieGrid = document.getElementById("movieGrid");
77   const searchInput = document.getElementById("searchInput");

```

```

const movieModal = document.getElementById("movieModal");
const modalPoster = document.getElementById("modalPoster");
const modalTitle = document.getElementById("modalTitle");
const modalDescription = document.getElementById("modalDescription");
const closeModal = document.getElementById("closeModal");
const reviewList = document.getElementById("reviewList");
const reviewInput = document.getElementById("reviewInput");
const addReviewBtn = document.getElementById("addReviewBtn");

let currentMovie = null;

function renderMovies(list) {
  movieGrid.innerHTML = "";
  list.forEach(movie => {
    const card = document.createElement("div");
    card.className = "bg-gray-800 rounded-lg shadow-lg overflow-hidden cursor-pointer hover:scale-105 transform transition";
    card.innerHTML = `
    
    <div class="p-4">
    <h3 class="text-lg font-bold">${movie.title}</h3>
    </div>
    `;
    card.addEventListener("click", () => openModal(movie));
    movieGrid.appendChild(card);
  });
}

function openModal(movie) {
  currentMovie = movie;
  modalPoster.src = movie.poster;
  modalTitle.textContent = movie.title;
  modalDescription.textContent = movie.description;
}

```



```
reviewList.innerHTML = "";
(reviews[movie.title] || []).forEach(r => {
  const li = document.createElement("li");
  li.textContent = r;
  reviewList.appendChild(li);
});
movieModal.classList.remove("hidden");
}
closeModal.addEventListener("click", () => {
  movieModal.classList.add("hidden");
  reviewInput.value = "";
});
addReviewBtn.addEventListener("click", () => {
  const review = reviewInput.value.trim();
  if (review && currentMovie) {
    if (!reviews[currentMovie.title]) {
      reviews[currentMovie.title] = [];
    }
    reviews[currentMovie.title].push(review);
    reviewInput.value = "";
    openModal(currentMovie); // refresh reviews
  }
});
searchInput.addEventListener("input", () => {
  const term = searchInput.value.toLowerCase();
  const filtered = movies.filter(m => m.title.toLowerCase().includes(term));
  renderMovies(filtered);
});
renderMovies(movies);
</script>
</body>
</html>
```

11. Conclusion

This Movie Review Website project successfully integrates multiple front-end technologies and design principles to create an engaging, user-centric platform. It showcases ability to implement dynamic content rendering, user input handling, and responsive design, forming a solid base for further enhancements like user authentication and richer interaction. The project met its goals of usability, aesthetics, and functionality, providing a practical tool for movie lovers to share and discover reviews in a modern web environment.

12. References

- L&T LMS : <https://learn.intedutech.com/Landing/MyCourse>
- Bootstrap Official Documentation – <https://getbootstrap.com>
- jQuery Official Documentation – <https://api.jquery.com>
- MDN Web Docs (HTML, CSS, JavaScript) – <https://developer.mozilla.org>
- W3Schools Tutorials – <https://www.w3schools.com>
- Stack Overflow – Community discussions and troubleshooting