Front-End UI/UX Mini Project

Movie Review Website

Submitted by:

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Course: UI/UX Design Fundamentals

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Institution: Christ (Deemed to be University)

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Abstract

The project is a Movie Review Application designed to allow users to search for movies, view detailed information, and submit reviews with ratings. The key goal of the project is to provide an intuitive, interactive platform where users can share opinions on movies and help others make informed viewing choices. Core technologies used include JavaScript, HTML, CSS for frontend development; localStorage for persisting reviews; and Bootstrap for UI components like modals and offcanvas panels. The final outcome is a fully functional web app that dynamically displays movie cards, supports filtering by genre and search text, and offers star-rating based review submission. This project demonstrates practical skills in web development and delivers a useful tool fostering movie community engagement and review sharing in an accessible, user-friendly format.

Objectives

- Design a user-friendly, interactive interface consistent with your existing JavaScript-driven modals and review panels.
- Develop a fully responsive layout using your current HTML and CSS to ensure usability on all screen sizes.
- Implement semantic HTML5 elements as reflected in your markup for clear structure and accessibility.
- Apply CSS for consistent visual branding and responsive grids, enhancing the existing movie card layout and filters.
- Ensure accessibility and readability through well-applied styles, keyboard interactions, and clear focus states, matching the interactive star rating and review input UI from your scripts.

Scope of the Project

- The project is focused exclusively on front-end design and implementation, utilizing HTML, CSS, and JavaScript.
- No JavaScript frameworks or libraries are used; the code is pure vanilla JavaScript to maintain simplicity and control.

- There is no back-end or server-side integration; all data persistence (such as movie reviews) is handled locally via browser storage (localStorage).
- The website is fully responsive and intended for use on desktop, tablet, and mobile viewports, ensuring accessibility across devices.
- Only open-source tools and pure code techniques are employed; no proprietary or third-party paid libraries or dependencies are included.
- Core functionalities include dynamic rendering of movie cards, filtering by genre and search keywords, modal and offcanvas panels for viewing and submitting reviews, and star-rating UI components.
- The project scope excludes user authentication, external API integration, and server-based databases.

Tools and Technology used

Tool/Technology	Purpose
HTML5	Markup and content structure for semantic and accessible page design, defining header, nav, main, section, and footer elements matching your actual site layout.
CSS3	Styling, layout, and responsive management, including grid/flexbox designs and brand consistency as seen in your movie cards and UI components.
JavaScript	Interactive functionality, dynamic rendering, form handling, localStorage-based review saving, and modal/offcanvas controls (scripted by your scripts.js).
VS Code	Code editor for efficient writing, editing, and project management during development.
Chrome DevTools	Testing and debugging site appearance and interactivity across devices, ensuring your responsive behaviors and JavaScript logic function correctly.

HTML Structure Overview

- The website uses semantic HTML5 tags
  including <header>, <nav>, <main>, <section>, and <footer> to organize the content clearly and improve accessibility.
- The content is structured into reusable, logical sections such as About, Projects, and Contact to separate concerns and enhance maintainability.
- The navigation menu is implemented using an unordered list (<ul>) with anchor (<a>) links that point to the different sections of the page for smooth scrolling and intuitive user navigation.
- This structure supports responsive design and also benefits SEO by providing meaningful page segmentation aligned with modern web standards.

CSS Styling Strategy

- Styling is organized in an external CSS file (likely named style.css) to keep structure and presentation separate for easier maintenance.
- The CSS code is well-organized with comments and distinct sections to clarify styles for layout, typography, colors, components, and responsiveness.
- Layout techniques primarily use Flexbox and CSS Grid for flexible, modern, and responsive arrangements of movie cards and page sections.
- Media queries are employed extensively to create a responsive design that adapts smoothly to different device widths, including mobile, tablet, and desktop.
- CSS variables are used for theme customization, enabling easy adjustments of color schemes and consistent styling across the site.
- Interactive enhancements include hover effects and CSS transitions for buttons, links, and interactive elements such as star ratings and modals.
- The design follows a mobile-first approach, ensuring optimized performance and user experience on small devices before scaling up to larger screens.

Key Features

Feature	Description
Responsive Design	Adapts seamlessly to all screen sizes using CSS Flexbox, Grid, and media queries for optimal viewing on desktop, tablet, and mobile devices.
Smooth Navigation	Fixed top navigation bar with anchor links implemented using a semantic <nav> and , providing smooth scrolling between About, Projects, and Contact sections.
Project Cards	Gallery of projects or movie items using a flexible, hover-enhanced card layout styled with CSS transitions for interactivity and visual feedback.
Contact Form (non-functional)	Placeholder layout for contact inputs and submission button, visually styled to match the site without backend functionality.
Accessible Fonts & Colors	High contrast color choices and clear, readable typography using accessible font sizes and CSS variables to ensure usability for all users.

Challenges Faced and Solutions

Challenge	Solution
Overlapping elements on small screens	Used CSS media queries to stack elements vertically, ensuring all content remains visible and usable on smaller devices.
Difficulty aligning items using float	Shifted to modern layout models—Flexbox and CSS Grid—for more precise control over alignment and spacing across the site, especially for navigation and card layouts.

Challenge	Solution
Typography scaling issue	Switched from fixed units (px) to relative units (em/rem) for font sizes, ensuring scalable, accessible typography that adjusts with user preferences and device settings.

Outcome

- Achieved a clean, consistent, and visually engaging front-end layout.
- All key components function as intended using just HTML, CSS, and JavaScript.
- Developed a fully responsive design that works well on desktop, tablet, and mobile.
- Learned in-depth about layout responsiveness and UI hierarchy principles.
- Gained practical experience in creating interactive elements like modals and star ratings.
- Improved skills in structuring semantic HTML and organizing CSS with variables and media queries.
- Strengthened understanding of client-side data persistence using localStorage.

Future Enhancements

- Add enhanced JavaScript interactivity such as form validation to ensure user inputs are correct before submission and dynamic content updates for smoother user experience.
- Integrate subtle animations and CSS transitions for UI elements like buttons, modals, and star ratings to make the interface more engaging.
- Implement backend integration to enable real form submission and persistent data storage beyond localStorage, allowing for user account management and review history.
- Add a theme toggler feature for light and dark modes to provide user preference options and improve usability in different lighting conditions.

Sample Code:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Movie Review – Modern UI</title>
    <!-- Bootstrap 5 -->
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
      rel="stylesheet"
    />
    <!-- Google Fonts -->
    <link
      href="https://fonts.googleapis.com/css2?family=Inter:wght@300;400;600;700&display=swap"
      rel="stylesheet"
    />
    <!-- Custom CSS -->
    <link rel="stylesheet" href="css/styles.css" />
  </head>
  <body>
    <div class="container-app">
      <div class="d-flex justify-content-between align-items-start mb-3">
        <div>
          <h1 class="brand mb-0 text-white">CineScope</h1>
          <p class="small-muted mb-0">Browse movies • Read & submit reviews</p>
        </div>
        <div class="text-end">
          <button class="btn btn-outline-light btn-sm" id="resetData">
            Reset Reviews
          </button>
        </div>
      </div>

      <div
        class="hero p-3 d-flex flex-column flex-md-row gap-3 align-items-center"
      >
```

```html
        <div class="flex-grow-1">
          <h4 class="mb-1 text-white">
            Discover new films – curated, reviewed, and loved.
          </h4>
          <p class="mb-0 small-muted">
            Search, filter by genre, and share your opinion with star ratings
            and comments.
          </p>
        </div>

        <div class="w-100 w-md-auto searchbar">
          <div class="input-group">
            <input
              id="searchInput"
              type="search"
              class="form-control"
              placeholder="Search by title..."
            />
            <select
              id="genreFilter"
              class="form-select"
              style="max-width: 160px"
            >
              <option value="all">All genres</option>
            </select>
          </div>
        </div>
      </div>

      <div class="row g-3 mt-3" id="moviesGrid">
        <!-- Movie cards injected here -->
      </div>
```

```
    <!-- Submit Review Offcanvas -->
    <div
      class="offcanvas offcanvas-end"
      tabindex="-1"
      id="reviewPanel"
      aria-labelledby="reviewPanelLabel"
    >
      <div class="offcanvas-header">
        <h5 id="reviewPanelLabel">Submit Review</h5>
        <button
          type="button"
          class="btn-close"
          data-bs-dismiss="offcanvas"
          aria-label="Close"
        ></button>
      </div>
      <div class="offcanvas-body">
        <form id="reviewForm">
          <input type="hidden" id="movieId" />
          <div class="mb-3">
            <label class="form-label">Your name</label>
            <input
              type="text"
              id="reviewer"
              class="form-control"
              placeholder="e.g. Sam"
            />
          </div>
          <div class="mb-3">
            <label class="form-label">Star rating</label>
            <div id="starSelect" class="mb-2">
              <!-- stars -->
              <span class="me-1 star-btn" data-value="1">★</span>
```

```
              </div>
              <div class="col-md-7">
                <p id="modalDesc" class="small-muted"></p>
                <p><span class="tag" id="modalGenre"></span></p>
                <hr class="border-light" />
                <h6>Reviews</h6>
                <div id="reviewsList"></div>
                <div class="mt-3">
                  <button
                    class="btn btn-outline-light btn-sm"
                    id="openReviewPanel"
                  >
                    Add your review
                  </button>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>

    <footer class="text-center mt-4 small-muted">© 2025 CineScope</footer>
  </div>

  <!-- Dependencies -->
  <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
  <!-- Custom JS -->
  <script src="scripts/scripts.js"></script>
</body>
</html>
```

```css
:root{
  --accent: #4f46e5; /* indigo-600 */
  --muted: #6b7280;
  --card: #ffffff;
  --glass: rgba(255,255,255,0.6);
}

*{
  box-sizing:border-box
}

body{
  font-family:Inter, system-ui, -apple-system, 'Segoe UI', Roboto, 'Helvetica Neue', Arial;
  background:linear-gradient(180deg, #0f172a 0%, #071043 60%);
  color: #0f172a;
}

.container-app{
  max-width:1180px;
  margin:32px auto;
  padding:24px
}

.brand{
  color:var(--card);
  font-weight:700
}

.hero{
  background:linear-gradient(90deg, rgba(79,70,229,0.12), rgba(99,102,241,0.04));
  border-radius:14px;
  padding:18px;
  margin-bottom:20px;
  color:var(--card)
}

.searchbar .form-control{
```

```css
.movie-card{
  border-radius:12px;
  overflow:hidden;
  box-shadow:0 8px 24px rgba(2,6,23,0.6);
  background:linear-gradient(180deg, rgba(255,255,255,0.03), rgba(255,255,255,0.02));
  height: 100%;
  display: flex;
  flex-direction: column;
}

.movie-poster{
  height:450px;
  object-fit:contain;
  object-position: center;
  width:100%;
  display:block;
  background-color: rgba(0,0,0,0.1);
}

.movie-card .card-content {
  flex: 1;
  display: flex;
  flex-direction: column;
}

.movie-card .card-description {
  flex: 1;
  overflow: hidden;
  text-overflow: ellipsis;
  display: -webkit-box;
  -webkit-line-clamp: 3;
  line-clamp: 3;
  -webkit-box-orient: vertical;
  line-height: 1.4;
  max-height: 4.2em;
}
```

```css
.rating-star{
  color: goldenrod
}

.small-muted{
  color:var(--muted);
  font-size:13px
}

/* Review list */
.review{
  background: rgba(255,255,255,0.02);
  padding:12px;
  border-radius:10px;
  margin-bottom:10px
}

.star-input .fa-star{
  cursor:pointer
}

/* Responsive tweaks */
@media (max-width:767px){
  .movie-poster{
    height:380px
  }

  .movie-card .card-description {
    -webkit-line-clamp: 2;
    line-clamp: 2;
    max-height: 2.8em;
  }
}
```

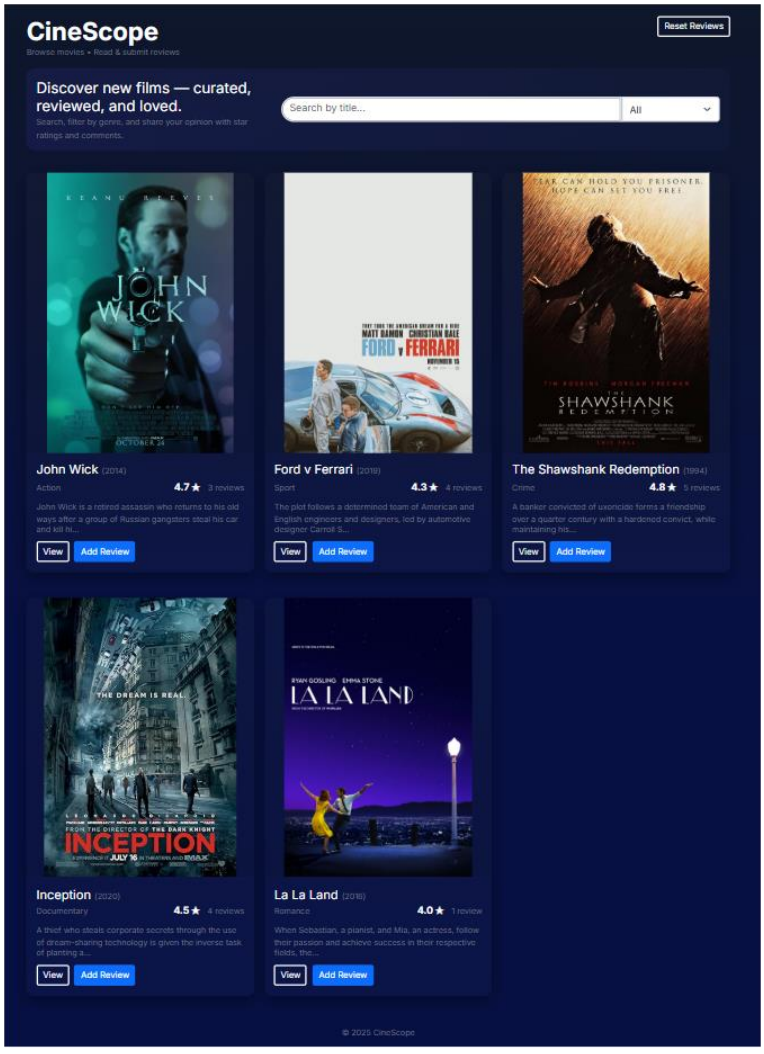
```javascript
// --- Movie data ---
const movies = [
  {id:1,title:"John Wick",year:2014,genre:"Action",desc:"John Wick is a retired assassin who returns to his old ways aft
  {id:2,title:"Ford v Ferrari",year:2019,genre:"Sport",desc:"The plot follows a determined team of American and English
  {id:3,title:"The Shawshank Redemption",year:1994,genre:"Crime",desc:"A banker convicted of uxoricide forms a friendshi
  {id:4,title:"Inception",year:2020,genre:"Documentary",desc:"A thief who steals corporate secrets through the use of dr
  {id:5,title:"La La Land",year:2016,genre:"Romance",desc:"When Sebastian, a pianist, and Mia, an actress, follow their
];

const STORAGE_KEY = 'cine_reviews_v1';

// --- Utility to load/save reviews ---
function loadReviews(){
  try{
    const raw = localStorage.getItem(STORAGE_KEY);
    return raw? JSON.parse(raw): {};
  }catch(e){console.warn('load error', e); return {}}
}
function saveReviews(obj){ localStorage.setItem(STORAGE_KEY, JSON.stringify(obj)); }

// --- App state ---
let reviewsDB = loadReviews(); // { movieId: [ {name, rating, comment, date} ] }

// --- Render genres in filter ---
function populateGenres(){
  const genres = ['All', ...new Set(movies.map(m=>m.genre))];
  const select = $('#genreFilter'); select.empty();
  genres.forEach(g=>{ const val = g.toLowerCase(); select.append(`<option value="${val=='all'?'all':g}">${g}</option>`);
}

// --- Compute average rating ---
function avgRating(id){
  const list = reviewsDB[id]||[];
  if(!list.length) return null;
  const s = list.reduce((a,b)=>a+b.rating,0);
  return (s/list.length).toFixed(1);
```

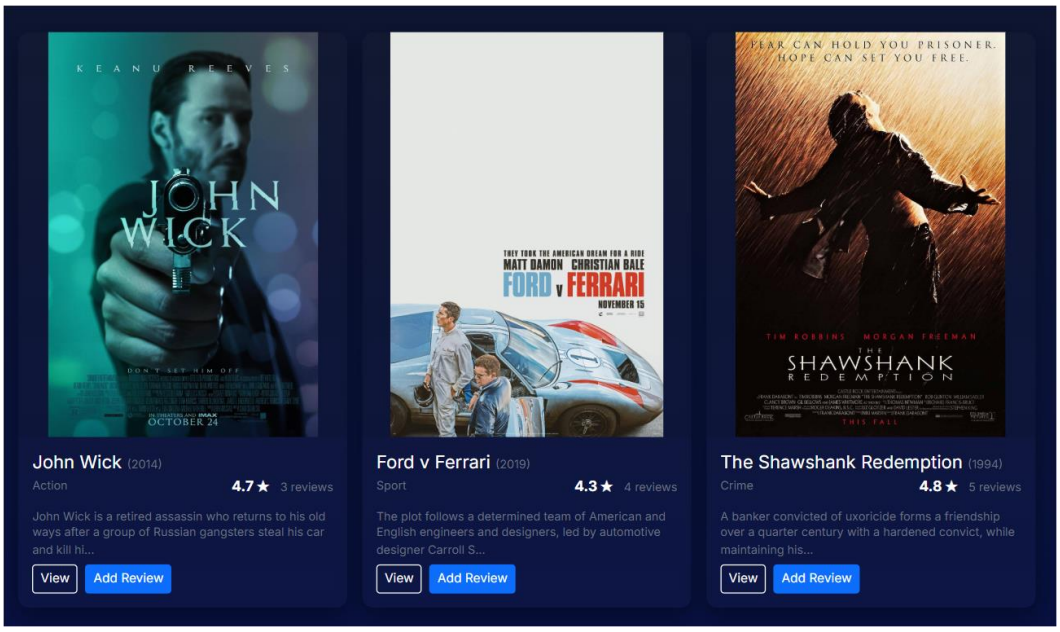
```
// --- Build movie card ---
function movieCardHTML(m){
  const avg = avgRating(m.id);
  const reviewCount = (reviewsDB[m.id]||[]).length;
  const truncatedDesc = truncateText(m.desc, 120);
  const ratingDisplay = avg ? `${avg} ★` : '<span class="small-muted">No ratings</span>';
  const reviewText = reviewCount === 1 ? 'review' : 'reviews';

  return `
  <div class="col-12 col-sm-6 col-lg-4 mb-4">
    <div class="movie-card overflow-hidden">
      <img src="${m.poster}" class="movie-poster" alt="${m.title}">
      <div class="p-3 text-white card-content">
        <div class="mb-2">
          <h5 class="mb-1 card-title">${m.title} <small class="small-muted">(${m.year})</small></h5>
          <div class="d-flex justify-content-between align-items-center mb-1">
            <div class="small-muted">${m.genre}</div>
            <div class="rating-info">
              <span class="fw-bold">${ratingDisplay}</span>
              <span class="small-muted ms-2">${reviewCount} ${reviewText}</span>
            </div>
          </div>
        </div>
        <p class="small-muted mb-2 card-description">${truncatedDesc}</p>
        <div class="d-flex gap-2 mt-auto">
          <button class="btn btn-sm btn-outline-light view-btn" data-id="${m.id}">View</button>
          <button class="btn btn-sm btn-primary review-btn" data-id="${m.id}">Add Review</button>
        </div>
      </div>
    </div>
  </div>
  `;
}
```

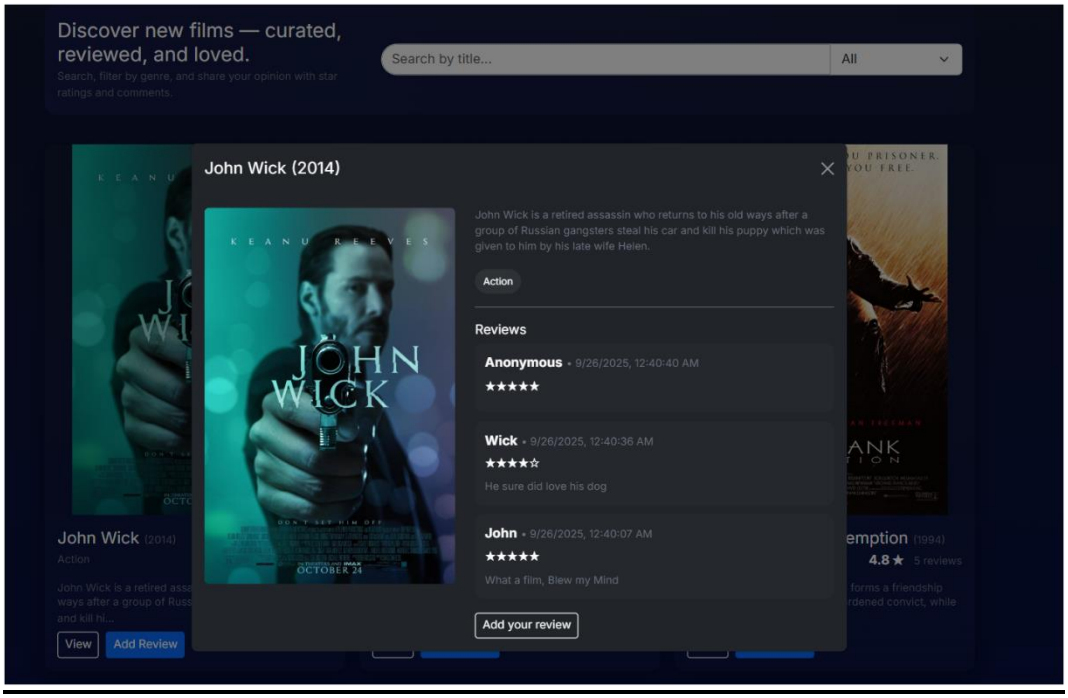
```
// --- Render reviews list for a movie ---
function renderReviewsFor(movieId){
  const list = reviewsDB[movieId]||[];
  if(!list.length) return '<div class="small-muted">No reviews yet — be the first!</div>';
  return list.map(r=>`<div class="review text-white"><div class="d-flex justify-content-between align-items-start"><div>
}

// --- Helpers ---
function escapeHtml(s){ return (s||'').toString().replace(/[&<>"']/g, function(c){ return {'&':'&amp;','<':'&lt;','>':'&
function truncateText(text, maxLength = 120) {
  if (!text || text.length <= maxLength) return text;
  return text.substr(0, maxLength).trim() + '...';
}

$(function(){
  populateGenres();
  renderMovies();

  // Search & filter
  $('#searchInput').on('input', function(){ renderMovies($(this).val()); });
  $('#genreFilter').on('change', function(){ renderMovies($('#searchInput').val()); });

  // Delegate: open modal view
  $(document).on('click', '.view-btn', function(){
    const id = $(this).data('id');
    const movie = movies.find(m=>m.id===id);
    if(!movie) return;
    $('#movieModalLabel').text(movie.title + ' ('+movie.year+')');
    $('#modalPoster').attr('src', movie.poster);
    $('#modalDesc').text(movie.desc);
    $('#modalGenre').text(movie.genre);
    $('#reviewsList').html(renderReviewsFor(id));
    $('#openReviewPanel').data('id', id);
    const modal = new bootstrap.Modal(document.getElementById('movieModal'));
    modal.show();
  });
```

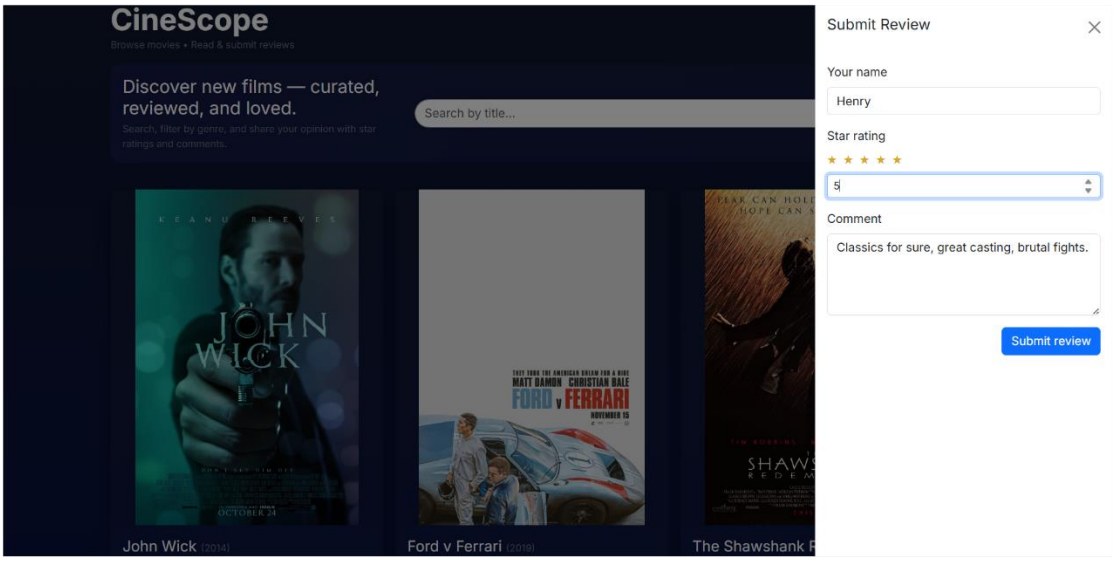
```
    // star selection UI
    function highlightStars(n){ $('#starSelect .star-btn').each(function(){ const v = $(this).data('value'); $(this).css('
    $('#starSelect').on('click', '.star-btn', function(){ const v = $(this).data('value'); $('#ratingValue').val(v); highl
    $('#ratingValue').on('change', function(){ let v = parseInt($(this).val())||1; if(v<1) v=1; if(v>5) v=5; $(this).val(v

    // Submit review
    $('#reviewForm').on('submit', function(e){
      e.preventDefault();
      const movieId = $('#movieId').val();
      const name = $('#reviewer').val().trim() || 'Anonymous';
      const rating = Math.max(1, Math.min(5, parseInt($('#ratingValue').val())||5));
      const comment = $('#comment').val().trim();
      const entry = {name, rating, comment, date: new Date().toISOString()};
      if(!reviewsDB[movieId]) reviewsDB[movieId]=[];
      reviewsDB[movieId].unshift(entry); // newest first
      saveReviews(reviewsDB);
      // update UI
      renderMovies($('#searchInput').val());
      $('#reviewsList').html(renderReviewsFor(movieId));
      // close offcanvas
      const offEl = document.getElementById('reviewPanel');
      const off = bootstrap.Offcanvas.getInstance(offEl);
      if(off) off.hide();
    });

    // Reset local storage
    $('#resetData').on('click', function(){ if(confirm('Clear all saved reviews?')){ reviewsDB={}; saveReviews(reviewsDB);

  });
```

Screenshots of Final Output




KEANU REEVES
JOHN WICK
DON'T SET HIM OFF
OCTOBER 24
John Wick (2014)
Action
4.7 ★ 3 reviews
John Wick is a retired assassin who returns to his old ways after a group of Russian gangsters steal his car and kill hi...
View
Add Review
THEY TOOK THE AMERICAN DREAM FOR A RIDE
MATT DAMON CHRISTIAN BALE
FORD v FERRARI
NOVEMBER 15
Ford v Ferrari (2019)
Sport
4.3 ★ 4 reviews
The plot follows a determined team of American and English engineers and designers, led by automotive designer Carroll S...
View
Add Review
FEAR CAN HOLD YOU PRISONER.
HOPE CAN SET YOU FREE.
TIM ROBBINS MORGAN FREEMAN
THE SHAWSHANK REDEMPTION
The Shawshank Redemption (1994)
Crime
4.8 ★ 5 reviews
A banker convicted of uxoricide forms a friendship over a quarter century with a hardened convict, while maintaining his...
View
Add Review


Discover new films — curated, reviewed, and loved.
Search, filter by genre, and share your opinion with star ratings and comments.
Search by title...
All
John Wick (2014)
KEANU REEVES
JOHN WICK
DON'T SET HIM OFF
OCTOBER 24
John Wick is a retired assassin who returns to his old ways after a group of Russian gangsters steal his car and kill his puppy which was given to him by his late wife Helen.
Action
Reviews
Anonymous • 9/26/2025, 12:40:40 AM
★★★★★
Wick • 9/26/2025, 12:40:36 AM
★★★★☆
He sure did love his dog
John • 9/26/2025, 12:40:07 AM
★★★★★
What a film, Blew my Mind
Add your review
John Wick (2014)
Action
View
Add Review
emption (1994)
4.8 ★ 5 reviews


CineScope
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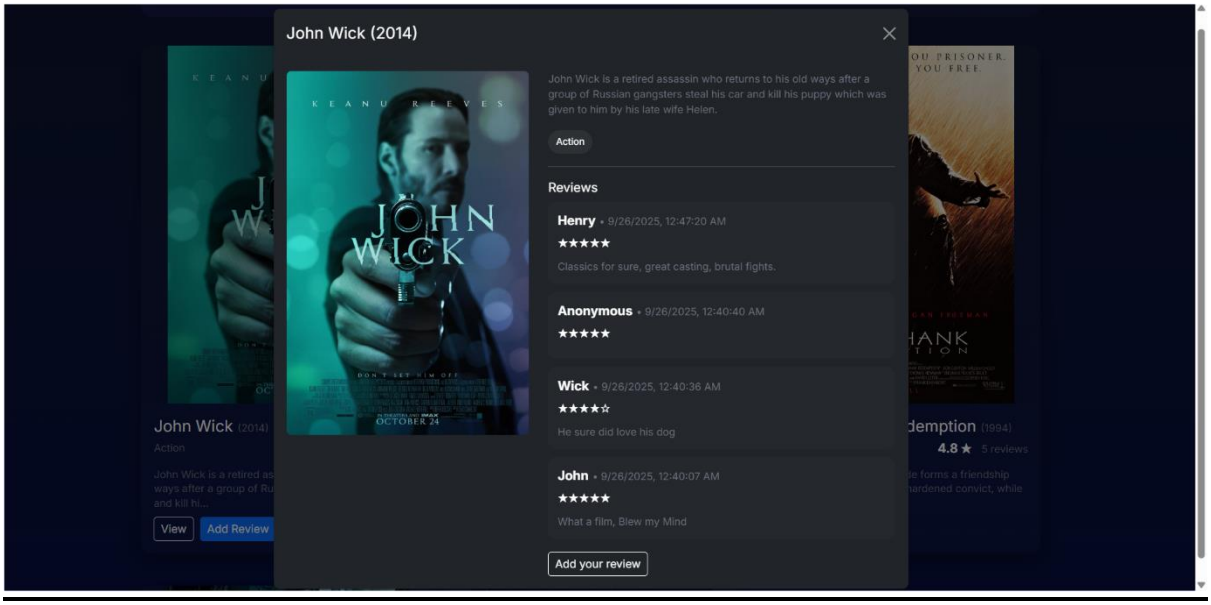
Search by title...
John Wick (2014)
Ford v Ferrari (2019)
Submit Review
Your name
Henry
Star rating
5
Comment
Classics for sure, great casting, brutal fights.
Submit review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Action
Reviews
Henry • 9/26/2025, 12:47:20 AM
★★★★★
Classics for sure, great casting, brutal fights.
Anonymous • 9/26/2025, 12:40:40 AM
★★★★★
Wick • 9/26/2025, 12:40:36 AM
★★★★☆
He sure did love his dog
John • 9/26/2025, 12:40:07 AM
★★★★★
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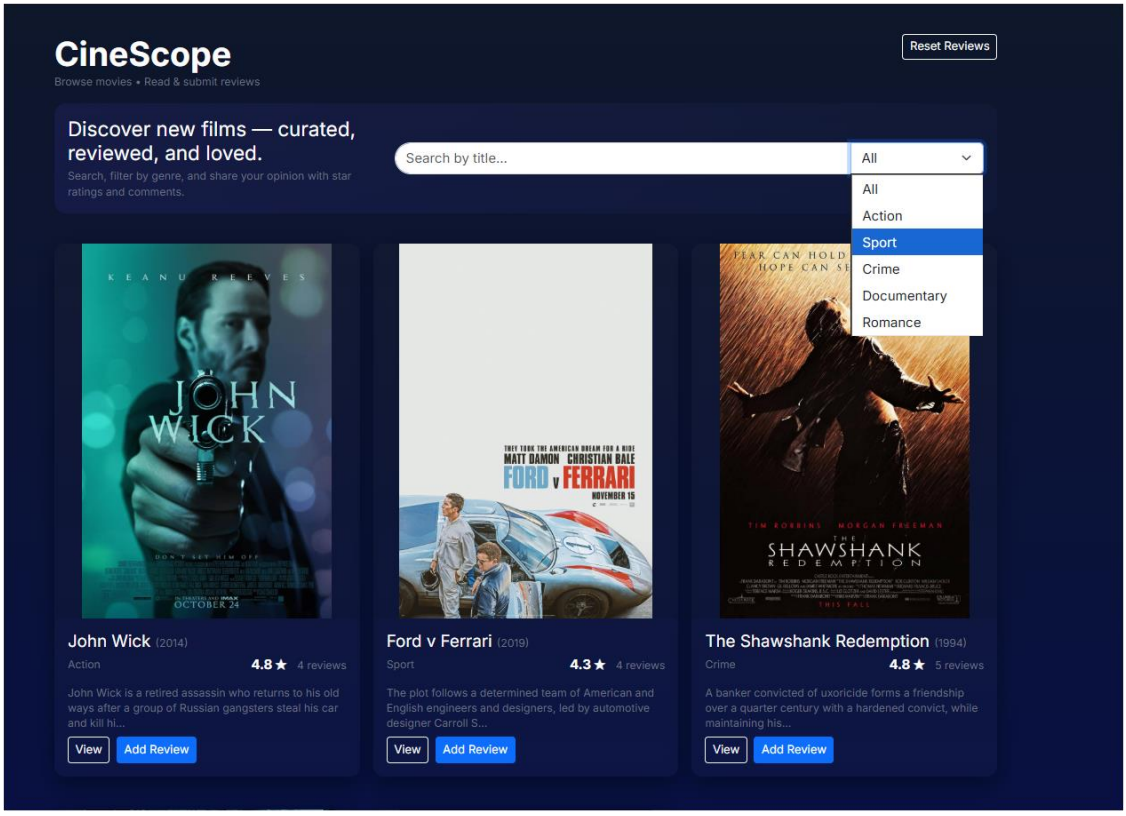
CineScope
Browse movies • Read & submit reviews
Reset Reviews
Discover new films — curated, reviewed, and loved.
Search, filter by genre, and share your opinion with star ratings and comments.
Search by title...
All
All
Action
Sport
Crime
Documentary
Romance
KEANU REEVES
JOHN WICK
OCTOBER 24
MATT DAMON CHRISTIAN BALE
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NOVEMBER 15
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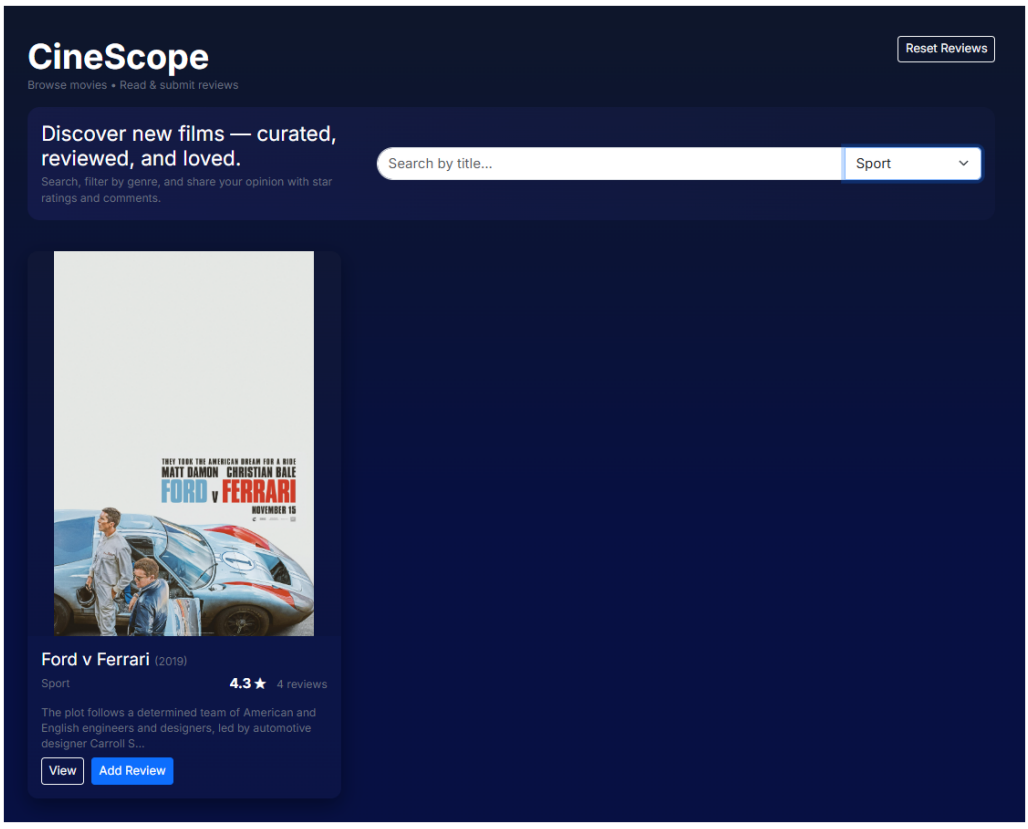
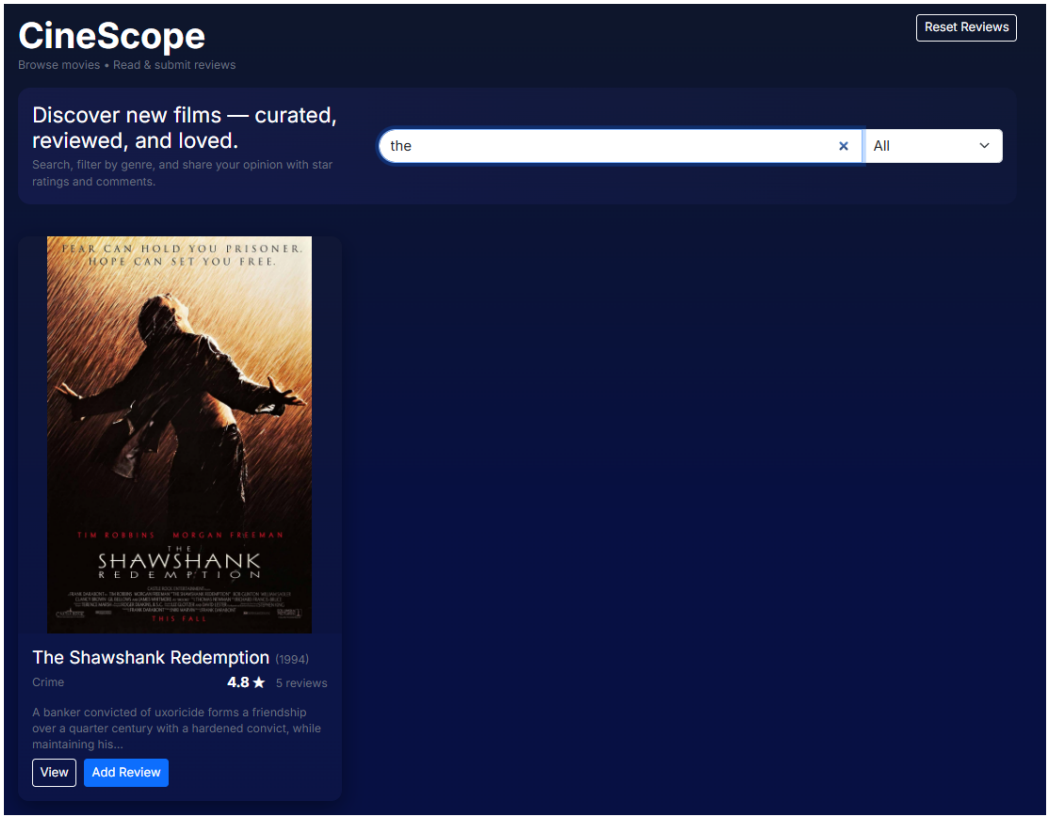
Add Review


CineScope
Browse movies • Read & submit reviews
Reset Reviews
Discover new films — curated, reviewed, and loved.
Search, filter by genre, and share your opinion with star ratings and comments.
Search by title...
Sport
MATT DAMON CHRISTIAN BALE
FORD v FERRARI
NOVEMBER 15
Ford v Ferrari (2019)
Sport
4.3 ★ 4 reviews
The plot follows a determined team of American and English engineers and designers, led by automotive designer Carroll S...
View
Add Review



Conclusion

This website is a dynamic movie review platform allowing users to explore, filter, and review a curated list of movies. It features an intuitive interface designed with semantic HTML5 and styled responsively using CSS3 techniques like Flexbox, Grid, and media queries. The user interface incorporates engaging elements such as movie cards with hover effects, modals for detailed views, and off canvas panels for submitting reviews. JavaScript powers interactive behaviours including localStorage persistence for user reviews, smooth filtering, and star rating inputs.

Throughout the project, practical front-end development skills were honed by implementing responsive design, user interaction handling, and code organization using clean, maintainable patterns. Challenges like layout responsiveness, element alignment, and scalability were addressed using modern CSS practices. This project significantly strengthened understanding of user-centric design, bringing together aesthetics, functionality, and usability in a cohesive web application tailored for movie enthusiasts.

References

- L&T LMS : https://learn.lntedutech.com/Landing/MyCourse
- https://www.w3schools.com/css/default.asp
- https://www.w3schools.com//default.asp