WEB PROGRAMMING LAB

BCSE203E

SLOT: L11 + L12 + L19 + L20

LAB MANUAL

Exercise 10

Date: 01-04-2025

GITHUB REPO LINK:

https://github.com/divyanshupatel17/23BAI1214_WEB_LAB

WEB PROG LAB PORTFOLIO:

https://23bai1214-divyanshu-web-v0.netlify.app/

SUBMITTED TO:

PROF. DR. ASHOKA RAJAN R

SUBMITTED BY:

DIVYANSHU PATEL

23BAI1214

School of Computer Science and Engineering

Vellore Institute of Technology, Chennai

Chennai 600127, Tamil Nadu

1. Card

```
src/components/MovieCard.jsx
import React from 'react';
import '../styles/MovieCard.css';

const MovieCard = ({ title, year, genre, rating, image }) => {
  const renderStars = () => {
    const stars = [];
    const maxRating = 5;

    for (let i = 0; i < rating; i++) {
      stars.push(<span key={i} className="star filled">★</span>);
    }

    for (let i = rating; i < maxRating; i++) {
      stars.push(<span key={i + rating} className="star empty">★</span>);
    }

    return stars;
  };

  return (
    <div className="movie-card">
      <div className="movie-image">
        <img src={image} alt={`${title} movie poster`} />
      </div>
      <div className="movie-info">
        <h2 className="movie-title">{title}</h2>
        <p className="movie-year">YEAR: {year}</p>
        <p className="movie-genre">GENRE: {genre}</p>
        <div className="movie-rating">
          RATING: {renderStars()}
        </div>
      </div>
    </div>
  );
};

export default MovieCard;

src/components/MovieList.jsx
import React from 'react';
import MovieCard from './MovieCard';
import titanicImg from '../assets/titanic.jpg';
import avatarImg from '../assets/avatar.jpg';
import inceptionImg from '../assets/inception.jpg';
import '../styles/MovieList.css';
```

```jsx
const MovieList = () => {
  const movies = [
    {
      id: 1,
      title: 'TITANIC',
      year: '2034',
      genre: 'ACTION',
      rating: 4,
      image: titanicImg
    },
    {
      id: 2,
      title: 'AVATAR',
      year: '2025',
      genre: 'SCI-FI',
      rating: 5,
      image: avatarImg
    },
    {
      id: 3,
      title: 'INCEPTION',
      year: '2028',
      genre: 'THRILLER',
      rating: 4,
      image: inceptionImg
    }
  ];

  return (
    <div className="movie-list-container">
      <h1>Featured Movies</h1>
      <div className="movie-list">
        {movies.map(movie => (
          <MovieCard
            key={movie.id}
            title={movie.title}
            year={movie.year}
            genre={movie.genre}
            rating={movie.rating}
            image={movie.image}
          />
        ))}
      </div>
    </div>
  );
};

export default MovieList;

src/styles/MovieCard.css
.movie-card {
  width: 250px;
  border: 2px solid #000;
  margin: 15px;
```

```css
  padding: 10px;
  display: flex;
  flex-direction: column;
  align-items: center;
  background-color: white;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  transition: transform 0.3s ease;
}

.movie-card:hover {
  transform: translateY(-5px);
}

.movie-image {
  width: 100%;
  border: 1px solid #000;
  margin-bottom: 10px;
}

.movie-image img {
  width: 100%;
  height: 300px;
  object-fit: cover;
}

.movie-info {
  width: 100%;
  text-align: center;
}

.movie-title {
  font-size: 1.5rem;
  margin: 5px 0;
  font-weight: bold;
}

.movie-year, .movie-genre {
  margin: 5px 0;
  font-weight: bold;
}

.movie-rating {
  margin: 5px 0;
  font-weight: bold;
  display: flex;
  align-items: center;
  justify-content: center;
}

.star {
  margin-left: 3px;
  font-size: 1.5rem;
}
```

```css
.star.filled {
  color: #ffd700;
}

.star.empty {
  color: #cccccc;
}
```

src/styles/MovieList.css
```css
.movie-list-container {
  max-width: 1200px;
  margin: 0 auto;
  padding: 20px;
}

.movie-list-container h1 {
  text-align: center;
  margin-bottom: 30px;
  color: #333;
}

.movie-list {
  display: flex;
  flex-wrap: wrap;
  justify-content: center;
  gap: 20px;
}
```

src/App.jsx
```jsx
import React from 'react'
import MovieList from './components/MovieList'
import './App.css'

function App() {
  return (
    <div className="app-container">
      <header className="app-header">
        <h1>React Movie Cards</h1>
      </header>
      <main>
        <MovieList />
      </main>
      <footer className="app-footer">
        <p>&copy; 2023 React Movie Cards App</p>
      </footer>
    </div>
  )
}

export default App
```

src/App.css
```css
* {
  margin: 0;
}
```

```css
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: 'Arial', sans-serif;
  background-color: #f0f0f0;
  color: #333;
}

.app-container {
  min-height: 100vh;
  display: flex;
  flex-direction: column;
}

.app-header {
  background-color: #333;
  color: white;
  padding: 20px 0;
  text-align: center;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

main {
  flex: 1;
  padding: 20px;
}

.app-footer {
  background-color: #333;
  color: white;
  text-align: center;
  padding: 15px 0;
  margin-top: auto;
}

src/index.css
:root {
  font-family: system-ui, -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto,
    Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;
  line-height: 1.5;
  font-weight: 400;
}

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

html, body {
  height: 100%;
}
```

```css
body {
  background-color: #f5f5f5;
  color: #333;
}

#root {
  min-height: 100vh;
  display: flex;
  flex-direction: column;
}

button {
  cursor: pointer;
  font-family: inherit;
}
```

src/main.jsx
```jsx
import { StrictMode } from 'react'
import { createRoot } from 'react-dom/client'
import './index.css'
import App from './App.jsx'

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <App />
  </StrictMode>,
)
```

OUTPUT:

Featured Movies

TITANIC

YEAR: 2034

GENRE: ACTION

RATING: ★ ★ ★ ★ ☆

AVATAR

YEAR: 2025

GENRE: SCI-FI

RATING: ★ ★ ★ ★ ★

INCEPTION

YEAR: 2028

GENRE: THRILLER

RATING: ★ ★ ★ ★ ☆