



Web App Design with React Week 14 Coding Assignment

Points possible: 75

URL to GitHub Repository:

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

1. Using what you've learned this week, create a page of an application that enables users to vote and leave reviews on movies.
2. You should include at least the following components:
 - a. MovieList – a container for all the Movie components and their data.
 - b. Movie – a component that represents movie data (i.e. image, synopsis, rating, etc...)
 - c. Stars – a one to five-star rating component that allows users to rate something (movies in this case, but remember that components are reusable, so you could use it elsewhere!)
 - d. ReviewList – a container inside of a Movie that houses Review components.
 - e. Review – A text review a user can leave on a movie.
 - f. ReviewForm – a form at the bottom of a Movie component that allows users to leave reviews. When submitted, the review should be added to the movie. All this data can be stored in an array, no networking or database needed for this assignment.

Screenshots of Code:



PROMINEO TECH

```
Movie.css U x
c > components > # Movie.css > .movie-container.col-md-8
1  .movie {
2      border: 1px solid #ccc; /* Add border with a light gray color */
3      padding: 10px; /* Add some padding for spacing */
4      margin-bottom: 20px; /* Add margin between movies */
5  }
6
7  .movie-container {
8      display: flex; /* Use flexbox for layout */
9  }
10
11  .movie-container .col-md-8 {
12      flex: 1; /* Make the movie column flexible */
13  }
14
15  .movie-container .col-md-4 {
16      flex: 1; /* Make the review column flexible */
17  }
18
19  .review-box {
20      border: 1px solid #ccc; /* Border style */
21      padding: 20px; /* Padding around the content */
22      border-radius: 5px; /* Rounded corners */
23      background-color: #f9f9f9; /* Background color */
24      height: 100%; /* Set the height to match its container */
25  }
26
27  .review-box h2 {
28      margin-top: 0; /* Remove top margin from the heading */
29  }
30
```



PROMINEO TECH

```
JS Movie.js U x
src > components > JS Movie.js > [0] Movie
1  import React, { useState } from 'react';
2  import StarsRating from './StarRating.js';
3  import ReviewList from './ReviewList';
4  import ReviewForm from './ReviewForm';
5  import './Movie.css';
6
7  const Movie = ({ movie }) => {
8      const { id, image, title, synopsis, reviews } = movie;
9
10     // State to manage the list of reviews
11     const [movieReviews, setMovieReviews] = useState(reviews || []);
12
13     // Function to add a new review
14     const addReview = (newReview) => {
15         // Generate a unique ID for the new review
16         const id = Math.random().toString(36).substr(2, 9);
17         // Add the new review to the existing list of reviews
18         setMovieReviews([...movieReviews, { id, ...newReview }]);
19     };
20
21     return (
22         <div className="movie-container row">
23             <div className="col-md-8">
24                 <div className="movie">
25                     <img src={image} alt={title} className="card-img-top img-fluid" style={{ maxWidth: '150px' }} />
26                     <h5 className="card-title">{title}</h5>
27                     <p className="card-text">{synopsis}</p>
28                     <p className="card-text"><small className="text-muted">Rating: {movie.rating}</small></p>
29                     <StarsRating totalStars={5} initialRating={movie.rating} readOnly={true} />
30                 </div>
31             </div>
32             <div className="col-md-4">
33                 <div className="review-box">
34                     <h2>Reviews for {title}</h2>
35                     /* Pass the list of reviews to the ReviewList component */
36                     <ReviewList reviews={movieReviews} />
37                     /* Pass the addReview function as a prop to ReviewForm */
```

```
38                     <ReviewForm addReview={addReview} />
39                 </div>
40             </div>
41         </div>
42     );
43 };
44
45 export default Movie;
```



PROMINEO TECH

```
JS MovieListjs U x
src > components > JS MovieListjs > default
1  import React from 'react';
2  import Movie from './Movie';
3
4  class MovieListContainer extends React.Component {
5    constructor(props) {
6      super(props);
7      this.state = {
8        movies: []
9      };
10   }
11
12   componentDidMount() {
13     const sampleMovies = [
14       {
15         id: 1,
16         title: 'Moonstruck',
17         image: 'https://i.imgur.com/i5lzh05.png',
18         synopsis: 'No sooner does Italian-American widow Loretta (Cher) accept a marriage proposal from her doltish boyfriend, Jo',
19         rating: 'PG',
20         reviews: [
21           { id: 1, author: "John Doe", content: "This movie was amazing!" },
22           { id: 2, author: "Jane Smith", content: "I loved it!" },
23           { id: 3, author: "Sam Smith", content: "Moonstruck was a romantic movie!" }
24         ]
25       },
26       {
27         id: 2,
28         title: 'The Goonies',
29         image: 'https://i.imgur.com/kNnGnKZ.png',
30         synopsis: 'Old-fashioned yarn about a band of adventurous kids who take on the might of a property developing company whi',
31         rating: 'PG',
32         reviews: [
33           { id: 4, author: "Judy Hopps", content: "My second favorite family movie" },
34           { id: 5, author: "Peach Fuzz", content: "It was alright." }
35         ]
36       },
37     ],
```



PROMINEO TECH

```
JS MovieList.js U X
src > components > JS MovieListjs > MovieListContainer > render
37
38 {
39   id: 3,
40   title: 'Fight Club',
41   image: 'https://i.imgur.com/zwHacfV.png',
42   synopsis: 'A depressed man (Edward Norton) suffering from insomnia meets a strange soap salesman named Tyler Durden (Brad Pitt) who challenges his sanity and reality.',
43   rating: 'R',
44   reviews: [
45     { id: 6, author: "Some Guy", content: "This is CRAZY!" },
46     { id: 7, author: "Bubbles", content: "I like soap." }
47   ],
48 },
49 {
50   id: 4,
51   title: 'Lord of the Rings: The Fellowship of the Ring',
52   image: 'https://i.imgur.com/3X13p4D.png',
53   synopsis: 'The future of civilization rests in the fate of the One Ring, which has been lost for centuries. Powerful forces are at work, and the fate of the world hangs in the balance.',
54   rating: 'PG-13',
55   reviews: [
56     { id: 8, author: "Billie Holiday", content: "You have my axel!" },
57     { id: 9, author: "Juniper Lee", content: "And my bowl!" }
58   ]
59 }
60 ];
61 this.setState({ movies: sampleMovies });
62 }
63
64 render() {
65   const { movies } = this.state;
66
67   return (
68     <div className="movie-list-container">
69       {movies.map(movie => (
70         <Movie key={movie.id} movie={movie} />
71       ))}
72     </div>
73   );
74 }
```

```
73   }
74 }
75
76 export default MovieListContainer;
```



PROMINEO TECH

JS Review.js U X

src > components > JS Review.js > ...

```
1  //A text review a user can leave on a movie.
2
3  import React from 'react';
4
5  const Review = ({ author, content }) => {
6    return (
7      <div className="review">
8        <div className="review-header">
9          <span className="review-author">{author}</span>
10        </div>
11        <p className="review-content">{content}</p>
12      </div>
13    );
14  };
15
16  export default Review;
17
```



PROMINEO TECH

JS ReviewForm.js U X

src > components > JS ReviewForm.js > [🔍] default

```
1  import React, { useState } from 'react';
2
3  const ReviewForm = ({ addReview }) => {
4    const [author, setAuthor] = useState('');
5    const [content, setContent] = useState('');
6
7    const handleSubmit = (e) => {
8      e.preventDefault();
9      if (!author.trim() || !content.trim()) return;
10     addReview({ author, content });
11     setAuthor('');
12     setContent('');
13   };
14
15   return (
16     <form onSubmit={handleSubmit}>
17       <div>
18         <input
19           type="text"
20           placeholder="Your name"
21           value={author}
22           onChange={(e) => setAuthor(e.target.value)}
23         />
24       </div>
25       <div>
26         <textarea
27           placeholder="Write your review here"
28           value={content}
29           onChange={(e) => setContent(e.target.value)}
30         ></textarea>
31       </div>
32       <button type="submit">Submit</button>
33     </form>
34   );
35 };
36
37
```



PROMINEO TECH

```
36   };  
37  
38   export default ReviewForm;
```

JS ReviewList.js U X

```
src > components > JS ReviewList.js > ...  
1   //A list of reviews  
2  
3   import React from 'react';  
4   import Review from './Review';  
5  
6   const ReviewList = ({ reviews }) => {  
7     return (  
8       <div className="review-list">  
9         {reviews.map(review => (  
10          <Review  
11            key={review.id}  
12            author={review.author}  
13            content={review.content}  
14          />  
15        ))}  
16       </div>  
17     );  
18   };  
19  
20   export default ReviewList;
```



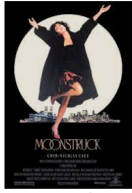

PROMINEO TECH

```
JS StarRating.js U X
src > components > JS StarRating.js > StarsRating > render
1  //A reusable component for rating movies.
2
3  import React from 'react';
4  import './Stars.css'; // Import CSS file for styling
5
6  class StarsRating extends React.Component {
7    constructor(props) {
8      super(props);
9      this.state = {
10        hoverRating: 0, // Track the rating being hovered over
11        selectedRating: props.initialRating || 0 // Track the selected rating
12      };
13    }
14
15    handleStarHover = (rating) => {
16      this.setState({ hoverRating: rating });
17    };
18
19    handleStarClick = (rating) => {
20      this.setState({ selectedRating: rating });
21      if (this.props.onRateChange) {
22        this.props.onRateChange(rating);
23      }
24    };
25
26    render() {
27      const { totalStars } = this.props;
28      const { hoverRating, selectedRating } = this.state;
29
30      const stars = [];
31
32      for (let i = 1; i <= totalStars; i++) {
33        stars.push(
34          <span
35            key={i}
36            className={i <= (hoverRating || selectedRating) ? "star filled" : "star"} // Apply filled class if hoverRating
37
38            onMouseEnter={() => this.handleStarHover(i)} // Handle onMouseEnter event
39            onMouseLeave={() => this.handleStarHover(0)} // Handle onMouseLeave event
40            onClick={() => this.handleStarClick(i)} // Handle onClick event
41
42            &#9733;
43          </span>
44        );
45      }
46
47      return (
48        <div className="stars">
49          {stars}
50        </div>
51      );
52    }
53  }
54  export default StarsRating;
```

Screenshots of Running Application:



PROMINEO TECH



Moonstruck

No sooner does Italian-American widow Loretta (Cher) accept a marriage proposal from her doltish boyfriend, Johnny (Danny Aiello), than she finds herself falling for his younger brother, Ronny (Nicolas Cage). She tries to resist, but Ronny lost his hand in an accident he blames on his brother, and has no scruples about aggressively pursuing her while Johnny is out of the country. As Loretta falls deeper in love, she comes to learn that she is not the only one in her family with a secret romance.

Rating: PG

★★★★★

Reviews for Moonstruck

John Doe
This movie was amazing!

Jane Smith
I loved it!

Sam Smith
Moonstruck was a romantic movie!

Vee
Testing



The Goonies

Old-fashioned yarn about a band of adventurous kids who take on the might of a property developing company which plans to destroy their home to build a country club. When the children discover an old pirate map in the attic, they follow it into an underground cavern in search of lost treasure but come up against plenty of dangerous obstacles along the way.

Rating: PG

★★★★★

Reviews for The Goonies

Judy Hopps
My second favorite family movie

Peach Fuzz
It was alright.



Fight Club

A depressed man (Edward Norton) suffering from insomnia meets a strange soap salesman named Tyler Durden (Brad Pitt) and soon finds himself living in his squalid house after his perfect apartment is destroyed. The two bored men form an underground club with strict rules and fight other men who are fed up with their mundane lives. Their perfect partnership frays when Marla (Helena Bonham Carter), a fellow support group crasher, attracts Tyler's attention.

Rating: R

Reviews for Fight Club

Some Guy
This is CRAZY!

Bubbles
I like soap.



PROMINEO TECH



Lord of the Rings: The Fellowship of the Ring

The future of civilization rests in the fate of the One Ring, which has been lost for centuries. Powerful forces are unrelenting in their search for it. But fate has placed it in the hands of a young Hobbit named Frodo Baggins (Elijah Wood), who inherits the Ring and steps into legend. A daunting task lies ahead for Frodo when he becomes the Ringbearer - to destroy the One Ring in the fires of Mount Doom where it was forged.

Rating: PG-13

★★★★★

Reviews for Lord of the Rings: The Fellowship of the Ring

Billie Holiday
You have my axe!

Juniper Lee
And my bow!

Reviews for Lord of the Rings: The Fellowship of the Ring

Billie Holiday
You have my axe!

Juniper Lee
And my bow!



PROMINEO TECH

Reviews for Lord of the Rings: The Fellowship of the Ring

Billie Holiday

You have my axe!

Juniper Lee

And my bow!

Testing

This is a review.

https://github.com/Vshea/Week14_CodingProject