



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

App.js:

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import Container from "../components/container";
3
4 function App() {
5   let globalState = {
6     id: 1,
7     text: "Movie",
8     movies: [],
9   };
10
11   return (
12     <div import Container container'>
13       <Container globalState={globalState} />
14     </div>
15   );
16 }
17
18 export default App;
19
```



PROMINEO TECH

Index.css:

```
1  body {
2    margin: 0;
3    font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", "Roboto", "Oxygen",
4      "Ubuntu", "Cantarell", "Fira Sans", "Droid Sans", "Helvetica Neue",
5      "Fantasy" sans-serif;
6    -webkit-font-smoothing: antialiased;
7    -moz-osx-font-smoothing: grayscale;
8    background-color: #lightslategray;
9  }
10
11  .star {
12    width: 20px;
13    height: 20px;
14  }
15
16  code {
17    font-family: source-code-pro, Menlo, Monaco, Consolas, "Courier New",
18      monospace;
19  }
20
21  .card-movie {
22    background-color: #lightseagreen;
23    font-family: fantasy;
24  }
25
26  .card-image {
27    object-fit: scale-down;
28    width: 10vw;
29    height: 10vh;
30  }
31
32  h2 {
33    color: #darkslateblue;
34    font-family: fantasy;
35    text-align: center;
36  }
37
38  div {
39    border-width: 4;
40    border-radius: 20px;
41    background-color: #lightsteelblue;
42  }
43
44  .star-box {
45    background-color: #lightsteelblue;
46  }
47
48  h5 {
49    color: #darkslateblue;
50    font-family: fantasy;
51  }
52
```

Index.js:



PROMINEO TECH

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import ReactDOM from "react-dom"; 133.5k (gzipped: 43.1k)
3 import "./index.css";
4 import "bootstrap/dist/css/bootstrap.min.css";
5 import MovieList from "../components/movielist";
6 import reportWebVitals from "../reportWebVitals";
7
8 ReactDOM.render(<MovieList />, document.getElementById("root"));
9
10 reportWebVitals();
11
```

Components/movie.js:

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import { Card } from "react-bootstrap"; 3.7k (gzipped: 1.7k)
3 import ReviewList from "../reviewlist";
4 import Stars from "../stars";
5
6 export default class Movie extends React.Component {
7   constructor(props) {
8     super(props);
9     this.state = {
10       id: props.id,
11       ranking: props.ranking,
12       title: props.title,
13       rating: props.rating,
14       stars: props.stars,
15       newstars: props.newstars,
16       totalstars: props.totalstars,
17       totalvotes: props.totalvotes,
18       synopsis: props.synopsis,
19       image: props.image,
20     };
21     this.onStarSubmit = this.onStarSubmit.bind(this); // needed for React
22   }
23
24   onStarSubmit(formState) {
25     console.log("In Movie.js -- onStarSubmit: " + formState.newstars);
26     const newstars = formState.newstars;
27     let newtotalvotes = this.state.totalvotes;
28     newtotalvotes++;
29     let newtotalstars = this.state.totalstars + newstars;
30     let computedstars = newtotalstars;
31     console.log("total stars + new stars: " + computedstars);
32     console.log("total votes: " + newtotalvotes);
33     computedstars = Math.round(computedstars / newtotalvotes);
34     console.log("computed stars: " + computedstars);
35   }
36 }
```



```

69         <br />
70         <strong>Reviews: </strong>
71         <br />
72         <div className='p-2'>
73             <ReviewList />
74         </div>
75     </div>
76 </Card.Body>
77 <br />
78 <Card.Footer className='text-muted p-2'>
79     <div>
80         <Stars onStarSubmit={formState => this.onStarSubmit(formState)} />
81         <br /> <br />
82     </div>
83     End of <strong>{this.state.title}</strong>
84 </Card.Footer>
85 </Card>
86 );
87 }
88 }
89

```

Components/movielist.js:



PROMINEO TECH

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import Movie from "../movie";
3 import "../node_modules/bootstrap/dist/css/bootstrap.css";
4
5 export default class MovieList extends React.Component {
6   render() {
7     return (
8       <div className='movie-list container p-5 '>
9         <h2>Movie List</h2>
10        <Movie
11          {...{
12            id: 1,
13            key: 1,
14            ranking: 1,
15            stars: 5,
16            totalstars: 5,
17            totalvotes: 1,
18            title:
19              "House of the Dragon (2022) Drama, Action & Adventure, Sci-Fi & Fantasy, Mystery",
20            rating: "R (for language, some sexuality and actuality violence).",
21            synopsis:
22              "The prequel series finds the Targaryen dynasty at the absolute apex of its power, with more than 15
23              dragons under their yoke. Most empires—real and imagined—crumble from such heights. In the case of
24              the Targaryens, their slow fall begins almost 193 years before the events of Game of Thrones, when
25              King Viserys Targaryen breaks with a century of tradition by naming his daughter Rhaenyra heir to
26              the Iron Throne. But when Viserys later fathers a son, the court is shocked when Rhaenyra retains
27              her status as his heir, and seeds of division sow friction across the realm.",
28            image:
29              "https://www.themoviedb.org/t/p/w600_and_h900_bestv2/wXChZt2FewH6c6LeF9jLNHvuUCH.jpg",
30          }}
31        />
32      <br />
33      <br />
34      <br />
35    </div>
36  )
37 }
```



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```
30     <Movie
31     {...{
32         id: 2,
33         key: 2,
34         ranking: 2,
35         stars: 5,
36         totalstars: 5,
37         totalvotes: 1,
38         title: "Prey (2022) Thriller, Action",
39         rating:
40             "R (for strong language including survival struggle and adventure).",
41         synopsis:
42             "When danger threatens her camp, the fierce and highly skilled Comanche warrior Naru sets out to
43             protect her people. But the prey she stalks turns out to be a highly evolved alien predator with a
44             technically advanced arsenal.",
45         image:
46             "https://www.themoviedb.org/t/p/w600_and_h900_bestv2/fwZrvjroGe4hzjjEz6Dy4viqNeA.jpg",
47     }}
48     />
49     <br />
50     <br />
51     <br />
52     <Movie
53     {...{
54         id: 3,
55         key: 3,
56         ranking: 3,
57         stars: 5,
58         totalstars: 5,
59         totalvotes: 1,
60         title:
61             "The Walking Dead (2010) Action & Adventure, Drama, Sci-Fi & Fantasy",
62         rating: "R (for zombies and horror violence).",
63         synopsis:
64             "Sheriff's deputy Rick Grimes awakens from a coma to find a post-apocalyptic world dominated by
65             flesh-eating zombies. He sets out to find his family and encounters many other survivors along the
66             way.",
67         image:
68             "https://www.themoviedb.org/t/p/w600_and_h900_bestv2/n7PVu0hSz2sAsVekp0IoCnkWlbn.jpg",
69     }}
70     />
71     <br />
72     <br />
73     <br />
74     <br />
75     <Movie
76     {...{
77         id: 4,
78         key: 4,
79         ranking: 4,
80         stars: 5,
81         totalstars: 5,
82         totalvotes: 1,
83         title:
84             "The Lord of the Rings: The Rings of Power (2022) Sci-Fi & Fantasy, Action & Adventure, Drama ",
85         rating:
86             "R (wonderful visuals, adventure and some strong language).",
87         synopsis:
88             "Beginning in a time of relative peace, we follow an ensemble cast of characters as they confront
89             the re-emergence of evil to Middle-earth. From the darkest depths of the Misty Mountains, to the
90             majestic forests of Lindon, to the breathtaking island kingdom of Númenor, to the furthest reaches
91             of the map, these kingdoms and characters will carve out legacies that live on long after they are
92             gone.",
93         image:
94             "https://www.themoviedb.org/t/p/w600_and_h900_bestv2/suyNxglk17Cpk8rCM2kZgqKdftk.jpg",
95     }}
96     />
97     <br />
98     <br />
99     <br />
100    </div>
101    );
102    }
103    }
104    // }
```



Components/review.js:

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import { Card } from "react-bootstrap"; 3.7k (gzipped: 1.7k)
3
4 export default class Review extends React.Component {
5   constructor(props) {
6     super(props);
7     this.state = {
8       index: props.index,
9       reviewtext: props.reviewtext,
10      key: props.key,
11    };
12  }
13
14  render() {
15    return <Card>{this.state.reviews}</Card>;
16  }
17 }
18
```

Components/reviewform.js

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import { Button, Form } from "react-bootstrap"; 9.9k (gzipped: 3.9k)
3
4 export default class ReviewForm extends React.Component {
5   constructor(props) {
6     super(props);
7     this.state = {
8       reviewtext: "",
9     };
10
11     this.handleChange = this.handleChange.bind(this);
12     this.handleSubmit = this.handleSubmit.bind(this);
13   }
14
15   resetReview() {
16     this.setState({
17       reviewtext: "",
18     });
19   }
20
21   handleChange(event) {
22     let current = event.target;
23     const name = current.name;
24     const value = current.value;
25     console.log("Name: " + name + " value: " + value);
26     this.setState({
27       [name]: value,
28     });
29   }
30
31   handleSubmit(event) {
32     event.preventDefault();
33     console.log("A movie review was submitted.");
34     this.props.onFormSubmit(this.state);
35   }
36 }
37
```




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```
35     this.resetReview();
36   }
37
38   render() {
39     return (
40       <div className='new-movie-review p-2'>
41         { /* <Review review={this.state.reviews} /> */ }
42
43         <h5>Personal Movie Review</h5>
44         <Form className='form'>
45           { /* <label htmlFor="titleInput"><b>Title for Movie Review:</b></label>
46             <br />
47               <input name="title" type="text" id="titleInput" value={this.state.title} onChange={this.
48                 handleChange} />
49             <br /> */ }
50           <label htmlFor='reviewInput'>
51             <b>Enter review here:</b>
52           </label>
53           <input
54             name='reviewtext'
55             type='text'
56             id='reviewInput'
57             value={this.state.reviewtext}
58             onChange={this.handleChange}
59           />
60           <br />
61           <br />
62           <Button
63             className='submit-button btn btn-dark'
64             type='submit'
65             value='Submit Review'
66             onClick={this.handleSubmit}
67           >
```

```
67       >
68         Submit Movie Review
69       </Button>
70       <div>
71         <input type='hidden' name='movieid' id='movieid' value={this.id} />
72         <input type='hidden' id='displayid' placeholder={this.id} />
73       </div>
74     </Form>
75   </div>
76 );
77 }
78 }
79 |
```

Components/reviewlist.js:



PROMINEO TECH

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import ReviewForm from "../reviewform";
3
4 export default class ReviewList extends React.Component {
5   constructor(props) {
6     super(props);
7     this.state = {
8       reviews: [],
9     };
10    this.onFormSubmit = this.onFormSubmit.bind(this); // needed for React
11  }
12
13  onFormSubmit(formState) {
14    const newreviews = this.state.reviews.slice();
15    newreviews.push(formState);
16    this.setState({
17      reviews: newreviews,
18    });
19  }
20
21  render() {
22    console.log("in reviewlist");
23
24    return (
25      <div className='container'>
26        {this.state.reviews.map(function (review, index) {
27          return (
28            <div className='review border p-2' key={index}>
29              {" "}
30              <strong>Review:</strong> {review.reviewtext}
31            </div>
32          );
33        })}
34        <ReviewForm onFormSubmit={formState => this.onFormSubmit(formState)} />
35      </div>
36    );
37  }
38 }
39
```

Components/Stars.js



PROMINEO TECH

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2
3 export default class Stars extends React.Component {
4   constructor(props) {
5     super(props);
6     this.state = {
7       newstars: 0,
8     };
9
10    this.handleChange = this.handleChange.bind(this);
11    this.handleSubmit = this.handleSubmit.bind(this);
12  }
13
14  resetStars(event) {
15    this.setState({
16      newstars: 0,
17    });
18    event.target.checked = "false";
19  }
20
21  handleChange(event) {
22    let current = event.target;
23    let stringvalue = current.value;
24    let value = 0;
25    if (stringvalue === "1") {
26      value = 1;
27    } else if (stringvalue === "2") {
28      value = 2;
29    } else if (stringvalue === "3") {
30      value = 3;
31    } else if (stringvalue === "4") {
32      value = 4;
33    } else if (stringvalue === "5") {
34      value = 5;
```




```

69         src={require("./empty-star.png")}
70         alt='first star'
71     />
72     <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
73     <br />
74 </label>
75 </div>
76
77 <div className='radio'>
78   <label>
79     <input
80       type='radio'
81       name='star'
82       value={2}
83       onChange={this.handleChange}
84     />
85     <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
86     <img
87       className='star'
88       src={require("./empty-star.png")}
89       alt='first star'
90     />
91     <img
92       className='star'
93       src={require("./empty-star.png")}
94       alt='first star'
95     />
96     <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
97     <br />
98   </label>
99 </div>
100
101 <div className='radio'>
102   <label>

```



```
<input  
    type='radio'  
    name='star'  
    value={3}  
    onChange={this.handleChange}  
/>  
<span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&/>  
<img  
    className='star'  
    src={require("./empty-star.png")}  
    alt='first star'  
/>  
<img  
    className='star'  
    src={require("./empty-star.png")}  
    alt='first star'  
/>  
<img  
    className='star'  
    src={require("./empty-star.png")}  
    alt='first star'  
/>  
<span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&/>  
<br />  
</label>  
</div>
```

```
<div className='radio'>  
  <label>  
    <input  
      type='radio'  
      name='star'
```



```

        name='star'
        value={4}
        onChange={this.handleChange}
      />
      <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
      <img
        className='star'
        src={require("../empty-star.png")}
        alt='first star'
      />
      <img
        className='star'
        src={require("../empty-star.png")}
        alt='first star'
      />
      <img
        className='star'
        src={require("../empty-star.png")}
        alt='first star'
      />
      <span>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</span>
      <br />
    </label>
  </div>

  <div className='radio'>
    <label>
      <input

```

[illegible]

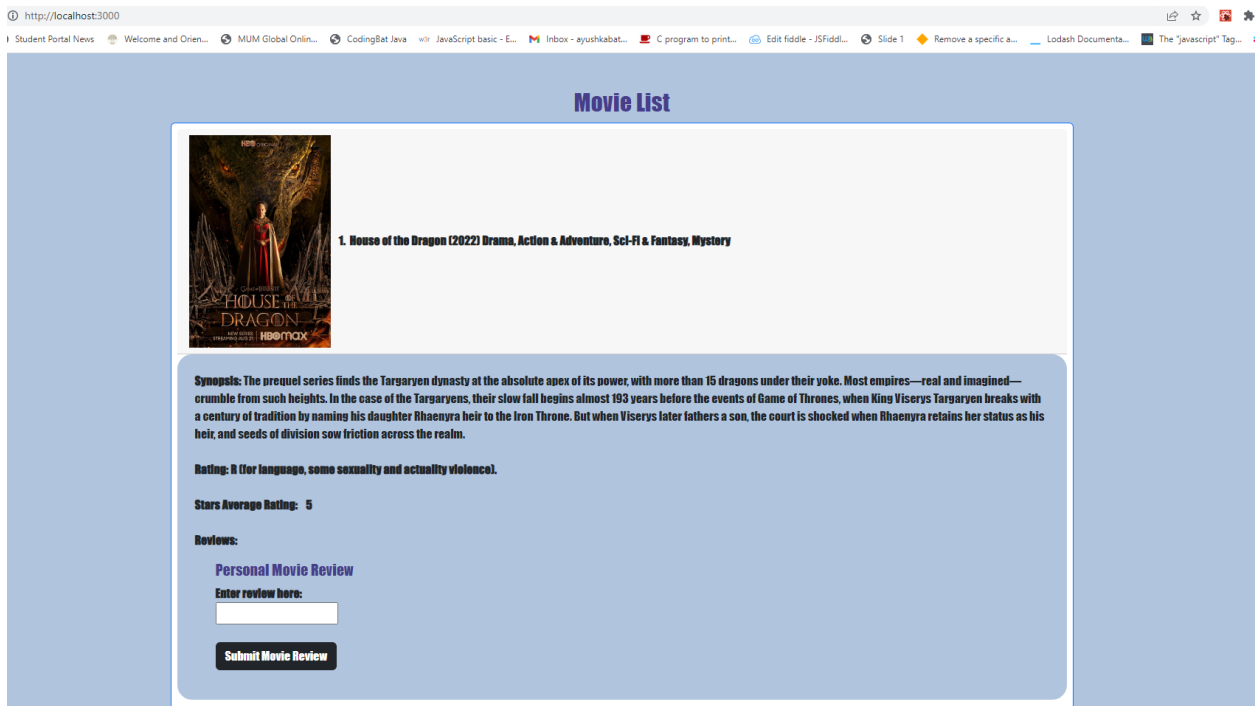


PROMINEO TECH

Components/submitbutton.js:

```
1 import React from "react"; 6.9k (gzipped: 2.7k)
2 import "../node_modules/bootstrap/dist/css/bootstrap.css";
3
4 class SubmitButton extends React.Component {
5   render() {
6     return <button className='btn btn-primary mx-2'>Submit Review</button>;
7   }
8 }
9
10 export default SubmitButton;
11
```

Screenshots of Running Application:





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Stars Rating

How many stars do you give this movie:

- ☐ ★
- ☐ ★★
- ☐ ★★★
- ☐ ★★★★
- ☐ ★★★★★
- ☐ ★★★★★★

Submit Star Vote

End of House of the Dragon (2022) Drama, Action & Adventure, Sci-Fi & Fantasy, Mystery



2. Prey (2022) Thriller, Action

Synopsis: When danger threatens her camp, the fierce and highly skilled Comanche warrior Naru sets out to protect her people. But the prey she stalks turns out to be a highly evolved alien predator with a technically advanced arsenal.

Rating: R (for strong language including survival struggle and adventure).

Stars Average Rating: 5

Stars Average Rating: 5

Reviews:

Personal Movie Review

Enter review here:

Submit Movie Review

Stars Rating

How many stars do you give this movie:

- ☐ ★
- ☐ ★★
- ☐ ★★★
- ☐ ★★★★
- ☐ ★★★★★
- ☐ ★★★★★★

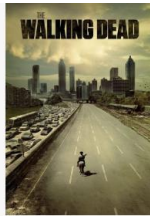
Submit Star Vote

End of Prey (2022) Thriller, Action





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3. The Walking Dead (2010) Action & Adventure, Drama, Sci-Fi & Fantasy

Synopsis: Sheriff's deputy Rick Grimes awakens from a coma to find a post-apocalyptic world dominated by flesh-eating zombies. He sets out to find his family and encounters many other survivors along the way.

Rating: R (for zombies and horror violence).

Stars Average Rating: 5

Reviews:

[Personal Movie Review](#)

Enter review here:

[Submit Movie Review](#)

Stars Rating

How many stars do you give this movie:

☐ ★
☐ ★★
☐ ★★★
☐ ★★★★
☐ ★★★★★

[Submit Star Vote](#)

End of The Walking Dead (2010) Action & Adventure, Drama, Sci-Fi & Fantasy



4. The Lord of the Rings: The Rings of Power (2022) Sci-Fi & Fantasy, Action & Adventure, Drama

Synopsis: Beginning in a time of relative peace, we follow an ensemble cast of characters as they confront the re-emergence of evil to Middle-earth. From the darkest depths of the Misty Mountains, to the majestic forests of Lindon, to the breathtaking island kingdom of Númenor, to the furthest reaches of the map, these kingdoms and characters will carve out legacies that live on long after they are gone.

Rating: R (wonderful visuals, adventure and some strong language).

Stars Average Rating: 5

Reviews:

[Personal Movie Review](#)

Enter review here:



PROMINEO TECH

Submit Movie Review

Stars Rating

How many stars do you give this movie:

- ☐ ★
- ☐ ★★
- ☐ ★★★
- ☐ ★★★★
- ☐ ★★★★★
- ☐ ★★★★★★

Submit Star Vote

End of The Lord of the Rings: The Rings of Power (2022) Sci-Fi & Fantasy, Action & Adventure, Drama