



Web App Design with React Week 2 Coding Assignment

Lisa Smith — 2021-10-05-fesd-nashua — due: 2/5/22

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

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:

index.css:

```
FB-Week2-HW > movie-review > src > # index.css > body
1  body {
2    margin: 0;
3    font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',
4    'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue', 'Fantasy'
5    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 }
```



index.js:

```
FE-Week2-HW > movie-review > src > JS index.js
1 import React from 'react';
2 import ReactDOM from 'react-dom';
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
9 ReactDOM.render(
10   | <MovieList />,
11   | document.getElementById('root')
12 );
13
14 // If you want to start measuring performance in your app, pass a function
15 // to log results (for example: reportWebVitals(console.log))
16 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
17 reportWebVitals();
18
```

movie.js:

```
JS review.js      JS movie.js ×     JS stars.js      JS movielist.js
FE-Week2-HW > movie-review > src > components > JS movie.js > 📄 Movie > ⚙️ onStarSubmit
1 import React from 'react';
2 import { Card } from 'react-bootstrap';
3 import ReviewList from './reviewlist';
4 import Stars from './stars';
5
6
7 // Movie - a component that represents movie data
8 //           (i.e. image, synopsis, rating, etc...)
9
10 export default class Movie extends React.Component{
11   constructor(props) {
12     super(props);
13     this.state = {
14       id: props.id,
15       ranking: props.ranking,
16       title: props.title,
17       rating: props.rating,
18       stars: props.stars,
19       newstars: props.newstars,
20       totalstars: props.totalstars,
21       totalvotes: props.totalvotes,
22       synopsis: props.synopsis,
23       image: props.image
24     };
25   this.onStarSubmit = this.onStarSubmit.bind(this); // needed for React
26 }
27
28 onStarSubmit(formState) {
29   console.log("In Movie.js -- onStarSubmit: " + formState.newstars);
30   //let oldstars = this.state.stars;
31   const newstars = formState.newstars;
32   let newtotalVotes = this.state.totalVotes;
33   newtotalVotes++;
34   let newtotalStars = (this.state.totalStars + newstars);
35   let computedStars = newtotalStars;
36   console.log("total stars + new stars: " + computedStars);
37   console.log("total votes: " + newtotalVotes);
38   computedStars = Math.round(computedStars/newtotalVotes);
39   console.log ("computed stars: " + computedStars);
40   this.setState({
41     stars: computedStars,
42     totalStars: newtotalStars,
43     totalVotes: newtotalVotes
44   });
45
46
47
48
49 render() {
50   // console.log(this.props.image); // for debugging purposes
51   return (
52     <Card className="card-movie p-2 border border-primary">
53       <Card.Header>
54         <Card.Img className="card-image img-fluid" variant="left" src={this.state.image} alt='movie poster' type='image/jpeg'/>
55         <span>&nbsp;
```



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movie.js cont'd:

```
FE-Week2-HW > movie-review > src > components > js movie.js > Movie
53   </CardHeader>
54   <Card.Body>
55     <div className="cardBody p-2">
56       <strong>Synopsis:</strong> {this.state.synopsis}
57       <br /><br />
58       <strong>Rating: {this.state.rating}</strong>
59       <br /><br />
60       <strong>Stars Average Rating: </strong> <span>{this.state.stars}</span>
61       <br /><br />
62       <strong>Reviews: </strong>
63       <br />
64       <div className="p-2">
65         <ReviewList />
66       </div>
67     </div>
68   </Card>
69   <Card.Body>
70   <br />
71   <Card.Footer className="text-muted p-2">
72     <div>
73       <Stars onStarSubmit={(formState) => this.onStarSubmit(formState)} />
74       <br /> <br />
75     </div>
76   </Card.Footer>
77   End of <strong>{this.state.title}</strong>
78 </Card>
79 )
80 )
81 )
82 }
83 }
```

movielist.js:

```
review.js      js movie.js      js stars.js      js movielist.js ×
FE-Week2-HW > movie-review > src > components > js movielist.js > MovieList > render > totalvotes
1  import React from 'react';
2  import Movie from './movie';
3  import '../../../../../node_modules/bootstrap/dist/css/bootstrap.css';
4
5 // MovieList - a container for all the Movie components and their data.
6
7 export default class MovieList extends React.Component {
8   render() {
9     // let movies;
10    // if(this.state.movies) {
11    //   movies = this.state.movies.map((movie, index) => <Movie key={index} {...movie} />);
12    // } else {
13    //   return (
14    //     <div className="movie-list container p-5 ">
15    //       <h2>Movie List</h2>
16    //       <Movie {...>
17    //         <id: 1,
18    //         key: 1,
19    //         ranking: 1,
20    //         stars: 5,
21    //         totalstars: 5,
22    //         totalvotes: 1,
23    //         title: "Schindler's List",
24    //         rating: 'R (for language, some sexuality and actuality violence)',
25    //         synopsis: 'In German-occupied Poland during World War II Industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.',
26    //         image: "https://n.media-amazon.com/images/MV5BNDE40THuMTCmB0YyMMWE2LTg3YzIYTk3M2luOTU5NjAxKExxFccGdeOXyNjU0T08OTYg_V1_FH.jpg/IIX1800_.jpg"
27    //       >
28    //       <br /><br />
29    //       <Movie {...>
30    //         <id: 2,
31    //         key: 2,
32    //         ranking: 2,
33    //         stars: 5,
34    //         totalstars: 5,
35    //         totalvotes: 1,
36    //         title: "Whiplash",
37    //         rating: 'R (for strong language including some sexual references)',
38    //         synopsis: 'A promising young drummer enrolls at a cut-throat music conservatory where his dreams of greatness are mentored by an instructor who will stop at nothing to realize a student's potential.',
39    //         image: "https://i.pinimg.com/originals/f6/dd/f6dd987657e88b41e51bbd417ea7dse.jpg"
40    //       >
41    //       <br /><br />
42    //       <Movie {...>
43    //         <id: 3,
44    //         key: 3,
45    //         ranking: 3,
46    //         stars: 5,
47    //         totalstars: 5,
48    //         totalvotes: 1,
49    //         title: "The Shawshank Redemption",
50    //         rating: 'R (for language and prison violence.)',
51    //         synopsis: 'Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency',
52    //         image: "https://n.media-amazon.com/images/I/7171SeB1sl.AC_SY879_.jpg"
53    //       >
54    //       <br /><br />
55    //       <Movie {...>
56    //         <id: 4,
57    //         key: 4,
58    //         ranking: 4,
59    //         stars: 5,
60    //         totalstars: 5,
61    //         totalvotes: 1,
62    //         title: "Cartelero",
63    //         rating: 'PG (for some thematic elements and mild peril.)',
64    //         synopsis: 'A young Colombian woman has to face the frustration of being the only member of her family without magical powers.',
65    //         image: "https://www.themoviedb.org/t/p/original/7M8BMABEBhGkC6z30WEsD1tK6F.jpg"
66    //       >
67    //       <br /><br />
68    //   </div>
69  }
70 }
71 }
72 }
73 //
```



reviewlist.js:

```
FE-Week2-HW > movie-review > src > components > JS reviewlist.js > ReviewList
1  import React from 'react';
2  import ReviewForm from './reviewform';
3
4
5  // ReviewList - a container inside of a Movie that houses Review components.
6
7  export default class ReviewList extends React.Component {
8    constructor(props) {
9      super(props);
10     this.state = {
11       reviews: []
12     };
13     this.onFormSubmit = this.onFormSubmit.bind(this); // needed for React
14   }
15
16   // addReviewToList — let's update the reviews array with the new content.
17   onFormSubmit(formState) {
18     const newReviews = this.state.reviews.slice();
19     newReviews.push(formState);
20     this.setState({
21       reviews: newReviews
22     });
23   }
24
25   render() {
26     console.log("in reviewlist");
27     // we need a loop to re-render the reviewlist on the page... ??????
28     return (
29       <div className="container">
30         {this.state.reviews.map(function(review, index) {
31           return <div className="review border p-2" key={index}> <strong>Review:</strong> {review.reviewtext}</div>
32         })}
33         <ReviewForm onFormSubmit={(formState) => this.onFormSubmit(formState)} />
34       </div>
35     );
36   }
37 }
```

reviewform.js:

```
FE-Week2-HW > movie-review > src > components > JS reviewform.js > ...
1  import React from 'react';
2  import {Button, Form} from 'react-bootstrap';
3
4
5  // ReviewForm - a form at the bottom of a Movie component that allows users to
6  // leave reviews. When submitted, the review should be added to the movie.
7  // All this data can be stored in an array, no networking or database
8  // needed for this assignment.
9
10 export default class ReviewForm extends React.Component {
11   constructor(props) {
12     super(props);
13     this.state = {
14       reviewtext: ''
15     };
16
17     this.handleChange = this.handleChange.bind(this);
18     this.handleSubmit = this.handleSubmit.bind(this);
19   }
20
21   resetReview() {
22     this.setState({
23       reviewtext: ''
24     });
25   }
26
27   handleChange(event) {
28     let current = event.target;
29     const name = current.name;
30     const value = current.value;
31     console.log("Name: " + name + " Value: " + value);
32     this.setState({
33       [name]: value
34     });
35   }
36
37   handleSubmit(event) {
38     event.preventDefault();
39     console.log('A movie review was submitted.');
40     this.props.onFormSubmit(this.state);
41     this.resetReview();
42   }
43 }
```



reviewform.js cont'd:

```
FE-Week2-HW > movie-review > src > components > # reviewform.js > ReviewForm > handleSubmit
40     this.props.onSubmit(this.state);
41     this.resetReview();
42   }
43
44   render() {
45     return (
46       <div className="new-movie-review p-2">
47         <!-- Review review=(this.state.reviews) /-->
48
49         <h3>Personal Movie Review</h3>
50         <form className="form">
51           <label htmlFor="titleInput">Movie Title for Movie Review:</label>
52           <br />
53           <input name="title" type="text" id="titleInput" value={this.state.title} onChange={this.handleChange} />
54           <br />
55           <label htmlFor="reviewInput">Enter review here:</label>
56           <br />
57           <input name="reviewText" type="text" id="reviewInput" value={this.state.reviewText} onChange={this.handleChange} />
58           <br />
59           <input type="hidden" name="movieId" id="movieId" value={this.id}/>
60           <input type="hidden" id="displayId" placeholder={this.id}/>
61
62         </form>
63       </div>
64     );
65   }
66 }
67
68 
```

```
FE-Week2-HW > movie-review > src > components > # stars.js > Stars > handleSubmit
1  import React from 'react';
2
3 // Stars - a one to five-star rating component that allows users to rate something
4 // (movies in this case, but remember that components are reusable, so
5 // you could use it elsewhere)
6
7 export default class Stars extends React.Component {
8   constructor(props) {
9     super(props);
10    this.state = {
11      newStars: 0
12    };
13    this.handleClick = this.handleClick.bind(this);
14    this.handleSubmit = this.handleSubmit.bind(this);
15  }
16
17  resetStars() {
18    this.setState({
19      newStars: 0
20    });
21  }
22
23  handleChangeEvent(e) {
24    let current = event.target;
25    let stringValue = current.value;
26    let value = parseInt(stringValue);
27
28    if (stringValue === '1') { value = 1; }
29    else if (stringValue === '2') { value = 2; }
30    else if (stringValue === '3') { value = 3; }
31    else if (stringValue === '4') { value = 4; }
32    else if (stringValue === '5') { value = 5; }
33    console.log(`Value: ${value} + type(${typeof value})`);
34    alert(`A star rating was entered: ${value}`);
35    this.setState({
36      newStars: value
37    });
38  }
39
40  handleSubmit(event) {
41    event.preventDefault();
42    console.log(`Star rating was submitted: ${this.state.newStars}`);
43    this.props.onSubmit(this.state);
44    this.resetStars();
45  }
46
47  render() {
48    return (
49      <div className="star-box p-2">
50        <h3>Rating</h3>
51        <form className="star-submission">
52          <label>How many stars do you give this movie?</label>
53          <div className="radio">
54            <input type="radio" name="star" value="1" onChange={this.handleChange} />
55            <span>&ampnbsp</span><span>&ampnbsp</span>
56            <img className="star" src={require('./empty-star.png')} alt="first star" />
57            <span>&ampnbsp</span><span>&ampnbsp</span>
58            <br />
59          </div>
60        </div>
61
62        <div className="radio">
63          <input type="radio" name="star" value="2" onChange={this.handleChange} />
64          <span>&ampnbsp</span><span>&ampnbsp</span>
65          <img className="star" src={require('./empty-star.png')} alt="first star" />
66          <img className="star" src={require('./empty-star.png')} alt="first star" />
67          <span>&ampnbsp</span><span>&ampnbsp</span>
68          <br />
69        </div>
70
71        <div className="radio">
72          <input type="radio" name="star" value="3" onChange={this.handleChange} />
73          <span>&ampnbsp</span><span>&ampnbsp</span>
74          <img className="star" src={require('./empty-star.png')} alt="first star" />
75          <img className="star" src={require('./empty-star.png')} alt="first star" />
76          <img className="star" src={require('./empty-star.png')} alt="first star" />
77          <span>&ampnbsp</span><span>&ampnbsp</span>
78          <br />
79        </div>
80
81        <div className="radio">
82          <input type="radio" name="star" value="4" onChange={this.handleChange} />
83          <span>&ampnbsp</span><span>&ampnbsp</span>
84          <img className="star" src={require('./empty-star.png')} alt="first star" />
85          <img className="star" src={require('./empty-star.png')} alt="first star" />
86          <img className="star" src={require('./empty-star.png')} alt="first star" />
87          <img className="star" src={require('./empty-star.png')} alt="first star" />
88          <span>&ampnbsp</span><span>&ampnbsp</span>
89          <br />
90        </div>
91
92        <div className="radio">
93          <input type="radio" name="star" value="5" onChange={this.handleChange} />
94          <span>&ampnbsp</span><span>&ampnbsp</span>
95          <img className="star" src={require('./empty-star.png')} alt="first star" />
96          <img className="star" src={require('./empty-star.png')} alt="first star" />
97          <img className="star" src={require('./empty-star.png')} alt="first star" />
98          <img className="star" src={require('./empty-star.png')} alt="first star" />
99          <img className="star" src={require('./empty-star.png')} alt="first star" />
100         <span>&ampnbsp</span><span>&ampnbsp</span>
101         <br />
102       </div>
103       <input className="submit-button btn-dark" type="submit" onClick={this.handleSubmit} value="Submit Star Vote" />
104     </form>
105   );
106 }
107 
```



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review.js:

```
JS review.js  X
FE-Week2-HW > movie-review > src > components > JS review.js > Review
1  import React from 'react';
2  import { Card } from 'react-bootstrap';
3
4  // Review - A text review a user can leave on a movie.
5
6  export default class Review extends React.Component {
7      constructor(props) {
8          super(props);
9          this.state = {
10              index: props.index,
11              reviewtext: props.reviewtext,
12              key: props.key
13          };
14      }
15
16      render() {
17          return (
18              <Card>
19                  {this.state.reviews}
20              </Card>
21          );
22      }
23 }
```



Screenshots of Running Application:

Movie Review X +
localhost:3000

Movie List

1. Schindler's List

Synopsis: In German-occupied Poland during World War II industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.

Rating: R (for language, some sexuality and actuality 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 Schindler's List

2. Whiplash

Synopsis: A promising young drummer enrolls at a cut-throat music conservatory where his dreams of greatness are mentored by an instructor who will stop at nothing to realize a student's potential.



Rating: R (for strong language including some sexual references).

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 Whiplash



3. The Shawshank Redemption

Synopsis: Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency

Rating: R (for language and prison 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 Shawshank Redemption



4. Encanto

Synopsis: A young Colombian woman has to face the frustration of being the only member of her family without magical powers.

Rating: PG (for some thematic elements and mild peril).

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 Encanto



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Type in a review in the review box:



1. Schindler's List

Synopsis: In German-occupied Poland during World War II industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.

Rating: R (for language, some sexuality and actuality violence).

Stars Average Rating: 5

Reviews:

Personal Movie Review

Enter review here:
s of that time in history!

Submit Movie Review

After the submit button has been clicked!

Movie List



1. Schindler's List

Synopsis: In German-occupied Poland during World War II industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.

Rating: R (for language, some sexuality and actuality violence).

Stars Average Rating: 5

Reviews:

Review: CRAZY GOOD MOVIE: Hard to watch, but amazing representation of the historical happenings of that time in history!

Personal Movie Review

Enter review here:

Submit Movie Review



Another review was entered!



1. Schindler's List

Synopsis: In German-occupied Poland during World War II industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.

Rating: R (for language, some sexuality and actuality violence).

Stars Average Rating: 5

Reviews:

Review: CRAZY GOOD MOVIE: Hard to watch, but amazing representation of the historical happenings of that time in history!

Review: NOT MY FAVORITE: This is a very hard movie to watch! Not for young viewers!

Personal Movie Review

Enter review here:

Submit Movie Review

Click 3 stars:

Stars Rating

How many stars do you give this movie:


 
 
 
 

Submit Star Vote

End of Schindler's List



NOTICE: the average stars rating changed from 5 to 4, because it was 5, and we clicked 3, so $8/2 \Rightarrow 4$.



1. Schindler's List

Synopsis: In German-occupied Poland during World War II industrialist Oskar Schindler gradually becomes concerned for his Jewish workforce after witnessing their persecution by the Nazis.

Rating: R (for language, some sexuality and actuality violence).

Stars Average Rating: 4

Reviews:

Review: CRAZY GOOD MOVIE: Hard to watch, but amazing representation of the historical happenings of that time in history!

Review: NOT MY FAVORITE: This is a very hard movie to watch! Not for young viewers!

Personal Movie Review

Enter review here:

Submit Movie Review



Add a comment to another movie!



3. The Shawshank Redemption

Synopsis: Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.

Rating: R (for language and prison violence).

Stars Average Rating: 5

Reviews:

Review: ONE OF MY FAVORITE MOVIES OF ALL TIME! So much fun! Be careful of the language!

Personal Movie Review

Enter review here:

Submit Movie Review

Add a vote for 5!

Stars Rating

How many stars do you give this movie:


 
 
 
 

Submit Star Vote

End of The Shawshank Redemption



NOTICE: average stars is still 5!



3. The Shawshank Redemption

Synopsis: Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency

Rating: R (for language and prison violence).

Stars Average Rating: 5

Reviews:

Review: ONE OF MY FAVORITE MOVIES OF ALL TIME! So much fun! Be careful of the language!

Personal Movie Review

Enter review here:

Submit Movie Review

URL to GitHub Repository: <https://github.com/sw-dev-lisa-s-nh/React-Week2>