Web App Design with React Week 2 Coding Assignment

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:

Movie:

```javascript
JS movie.js U ×    # index.css M    JS movieList.js U    JS review.js U    JS reviewForm.js U

src > JS movie.js > ⅏ Movie > ⊘ render
  1   import React from 'react';
  2   import Review from './review';
  3
  4
  5   function Stars() {
  6       return (
  7           <div className="rating">
  8               <input type="radio" id="rating-5" name="rating" value="5" /><label htmlFor="rating-5">★</label>
  9               <input type="radio" id="rating-4" name="rating" value="4" /><label htmlFor="rating-4">★★</label>
 10               <input type="radio" id="rating-3" name="rating" value="3" /><label htmlFor="rating-3">★★★</label>
 11               <input type="radio" id="rating-2" name="rating" value="2" /><label htmlFor="rating-2">★★★★</label>
 12               <input type="radio" id="rating-1" name="rating" value="1" /><label htmlFor="rating-1">★★★★★</label>
 13           </div>
 14       )
 15   }
 16
 17
 18   export default class Movie extends React.Component {
 19       constructor(props) {
 20           super(props);
 21           this.state = {
 22               image: props.image,
 23               title: props.title,
 24               synopsis: props.synopsis,
 25               reviews: props.reviews
 26           };
 27       }
 28
 29       render() {
 30           let reviews = [];
 31           if (this.state.reviews) {
 32               reviews = this.state.reviews.map((review) => <Review key={review.id} { ... review} />)
 33           }
 34
 35           return (
 36               <div className="container">
 37                   <div className="row">
 38                       <div className="col-md-6">
 39                           <div className="row">
 40                               <p id="title" className="text-center"> {this.props.title} </p>
 41                           </div>
 42                           <div className="row">
 43                               <p id="synopsis"> {this.props.synopsis}</p>
 44                           </div>
 45                           <div className="row">
 46                               <Stars />
 47                           </div>
 48                       </div>
 49                       <div className="col-md-6 text-center" id="moviePoster">
 50                           <img src={this.props.image} alt="poster"/>
 51                       </div>
 52                   </div>
 53                   <div className="row">
 54                       <div className="col-lg-12" id="reviews">
 55                           <p>Reviews:</p>
 56                           {reviews}
 57                       </div>
 58                   </div>
 59                   <br>
 60                   </br>
 61               </div>
 62
 63           )
 64       }
 65   }
```

Review:

```
src > JS review.js > Review > render
1    import React from 'react';
2
3    export default class Review extends React.Component {
4        render() {
5            return(
6                <div className="col-lg-12">
7                    <p>{this.props.review}</p>
8                </div>
9
10           )
11       }
12   }
```

ReviewForm:

```javascript
src > JS reviewForm.js > ReviewForm
 1   import React from 'react';
 2
 3   export default class ReviewForm extends React.Component {
 4       constructor(props) {
 5           super(props);
 6           this.state = {
 7                   id: 0,
 8                   review: '',
 9                   movie: ''};
10
11           this.submitForm = this.submitForm.bind(this);
12           this.changeHandler = this.changeHandler.bind(this);
13       }
14
15       submitForm = (e) => {
16           e.preventDefault();
17           this.props.onSubmit(this.state);
18           console.log({review: this.state.review});
19           console.log({movie: this.state.movie})
20       }
21
22       changeHandler = (e) => {
23           let nam = e.target.name;
24           let val = e.target.value;
25           this.setState({[nam]: val});
26       }
27
28       render() {
29           return(
30               <div className="container">
31               <li className="list-group-item">
32                   <form onSubmit={this.submitForm}>
33                       <p>Enter Movie</p>
34                       <p>Please enter your review</p>
35                       <select name="movie" id="inputstate" className="form-control" onChange={this.changeHandler}>
36                           <option defaultValue>Choose ... </option>
37                           <option>Harry Potter</option>
38                           <option>Lord of the Rings</option>
39                       </select>
40                       <input type='text' name="review" onChange={this.changeHandler} />
41                       <input type='submit' />
42                   </form>
43               </li>
44               <br>
45               </br>
46               </div>
47           )
48       }
49   }
```

MovieList:

```javascript
1   import React from 'react';
2   import Movie from './movie';
3   import ReviewForm from './reviewForm';
4
5
6   export default class MovieList extends React.Component {
7       constructor(props) {
8           super(props);
9           this.state = { movies: [{
10              id: 1,
11              image: 'https://m.media-amazon.com/images/I/71ymSSSfouL._AC_SY741_.jpg',
12              title: 'Harry Potter',
13              synopsis: 'A clash between good and evil awaits as young Harry (Daniel Radcliffe), Ron (Rupert Grint) a
14              reviews: [{
15                  id: 1,
16                  review: 'this is a great movie',
17                  movie: 'Harry Potter'
18              }, {
19                  id: 2,
20                  review: 'this was okay',
21                  movie: 'Harry Potter'
22              }
23              ]
24          },
25          {
26              id: 2,
27              image: 'https://images-na.ssl-images-amazon.com/images/I/81EBp0vOZZL._AC_SL1329_.jpg',
28              title: 'Lord of the Rings',
29              synopsis: 'The future of civilization rests in the fate of the One Ring, which has been lost for centur
30              reviews: [{
31                  id: 1,
32                  review: 'too long',
33                  movie: 'Lord of the Rings'
34              }, {
35                  id: 2,
36                  review: 'it was great!',
37                  movie: 'Lord of the Rings'
38              }]
39          }]}
40          this.addNewReview = this.addNewReview.bind(this);
41      }
```

```javascript
42
43      addNewReview(review) {
44          let fakeState = this.state.movies;
45          for (let i of fakeState) {
46              if(i.title === review.movie) {
47                  i.reviews.push(review)
48                  this.setState({movies: [ ...fakeState]})
49
50              }
51          }
52      }
53
54
55      render() {
56          const movieCard = this.state.movies.map(movie ⇒ <Movie { ...movie} key={movie.title} />)
57          return (
58              <div>
59                  {movieCard}
60                  <ReviewForm onSubmit={this.addNewReview} />
61              </div>
62          )
63      }
64  }
```
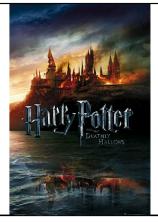
Screenshots of Running Application:

Harry Potter

A clash between good and evil awaits as young Harry (Daniel Radcliffe), Ron (Rupert Grint) and Hermione (Emma Watson) prepare for a final battle against Lord Voldemort (Ralph Fiennes). Harry has grown into a steely lad on a mission to rid the world of evil. The friends must search for the Horcruxes that keep the dastardly wizard immortal. Harry and Voldemort meet at Hogwarts Castle for an epic showdown where the forces of darkness may finally meet their match.

○★○★★○★★★○★★★★○★★★★★

Reviews:

    this is a great movie

    this was okay

    It was a great movie

    It was amazing

    This is my review

Lord of the Rings

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.

○★○★★○★★★○★★★★○★★★★★

Reviews:

    too long

    it was great!

    It was amazing!

    this was bad

Enter Movie

Please enter your review

Lord of the Rings

this was bad   Submit

URL to GitHub Repository:

Live site: https://christinalytle.github.io/react-movie-review/

Code: https://github.com/Christinalytle/react-movie-review/tree/main