



Web App Design with React Week 14 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



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data can be stored in an array, no networking or database needed for this assignment.

Screenshots of Code:

Did not complete.



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```
src > components > JS movie-list.js > MovieList > render > movies
1  import React from "react";
2  import Movie from "../movie";
3
4  export default class MovieList extends React.Component {
5    render() {
6      let movies = [
7        {
8          title: "Fast and Furious",
9          image: "/movieimages/fast1.jpg",
10         plot: "Cars go fast",
11         reviews: []
12       },
13       {
14         title: "2Fast and 2Furious",
15         image: "/movieimages/fast2.jpg",
16         plot: "Cars go fast, again",
17         reviews: []
18       },
19       {
20         title: "The Fast and the Furious: Tokyo Drift",
21         image: "/movieimages/fast3.jpg",
22         plot: "Cars go fast in Japan, sideways",
23         reviews: []
24       }
25     ]
26     let arr;
27     arr = movies.map((movie, index) =>
28       <Movie title={movie.title} plot={movie.plot} reviews={movie.reviews} image={movie.image} key={index} />
29     )
30
31     return(
32       <div>
33         {arr}
34       </div>
35     )
36   }
37 }
38 }
```

The code defines a `MovieList` class that extends `React.Component`. It has a `render` method that creates an array of movie objects. Each object has `title`, `image`, `plot`, and `reviews` properties. The array is then mapped to a list of `Movie` components, each with props for `title`, `plot`, `reviews`, `image`, and `key`. The list is returned inside a `div` container.



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```
1  import React from "react";
2  import ReviewButton from "../review-button";
3  import ReviewList from "../review-list";
4
5  export default class Movie extends React.Component {
6    constructor(props) {
7      super(props);
8      this.state = {
9        title: props.title,
10       image: props.image,
11       plot: props.plot,
12       review: props.review,
13     }
14     this.setReviews = this.setReviews.bind(this)
15   }
16
17   setReviews(e) {
18     let newReview = e.target.previousElementSibling.previousElementSibling.previousElementSibling.value
19     this.setState(state => {
20       if (state.title === e.target.name) {
21         state.review.push(newReview)
22         return {reviews: state.reviews}
23       }
24     })
25   }
26
27   render() {
28     return(
29       <div className="row my-5">
30         <div className="card mx-auto" style={{width: "80%}}>
31           <div className="card-body">
32             <h4 className="card-title">{this.state.title}</h4>
33             <p className="card-text">
34               <img src={this.state.image} alt="Fast and Furious" /><br />{this.state.plot}</p>
35             </div>
36             <ReviewList reviews={this.state.reviews} />
37             <ReviewButton onClick={ (e) => this.setReviews(e) } name={this.state.title} />
38           </div>
39         </div>
40       </div>
41     )
42   }
43 }
44
45 }
```



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```
1  import React from "react";
2
3  export default class ReviewButton extends React.Component{
4    constructor(props){
5      super(props);
6      this.state= {
7        title: props.name,
8        id: props.id
9      }
10     this.handleClick = this.handleClick.bind(this)
11   }
12   handleClick(e) {
13     this.props.onClick(e)
14     console.log(e);
15   }
16   render() {
17     return(
18       <div className="text-white bg-dark card-footer mt-4">
19         <p>What did you think about this movie?</p>
20         <input type="text" id="newReview"/><br /><br />
21         <button className="btn btn-primary" onClick={this.handleClick} name={this.state.title} id={this.state.id}>Add a review</button>
22       </div>
23     )
24   }
25 }
26
27 }
```



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```
src > components > JS review-list.js > ...
1  import React from "react";
2  import Review from "../review";
3
4  export default class ReviewList extends React.Component {
5      constructor(props) {
6          super(props);
7          this.state = {
8              reviews: this.props.reviews
9          }
10     }
11     render() {
12         return (
13             <div>
14                 <hr />
15                 <Review reviews={this.state.reviews} />
16             </div>
17         )
18     }
19 }
```



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```
src > components > JS review.js > Review > render
1  import React from "react";
2
3  export default class Review extends React.Component {
4      constructor(props) {
5          super(props);
6          this.state = {
7              reviews: props.reviews
8          }
9      }
10
11     render() {
12         let reviewsArray;
13         if (this.state.reviews) {
14             reviewsArray = this.state.reviews.map( (review, index) =>
15                 <li className="list-group-item" key={index}>{review}</li>
16             )
17         }
18         return (
19             <div>
20                 <ul className="list-group list-group-flush">
21                     <li className="list-group-item">
22                         <strong>Reviews</strong>
23                     </li>
24                     {reviewsArray}
25                 </ul>
26             </div>
27         );
28     }
29 }
```

Screenshots of Running Application:



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Fast and Furious



Cars go fast

Reviews

What did you think about this movie?

Add a review

2Fast and 2Furious





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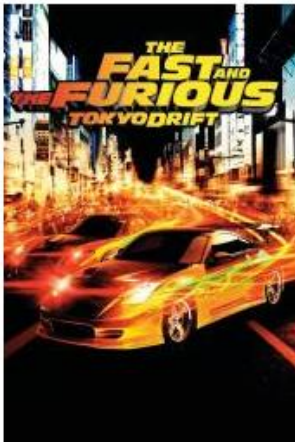
Cars go fast, again

Reviews

What did you think about this movie?

Add a review

The Fast and the Furious: Tokyo Drift



Cars go fast in Japan, sideways



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URL to GitHub Repository: