

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:

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JS Movie.js
                JS MovieList.is
                                 # index css
                                                 JS index is
                                                                                                                       JS Stars.js X
                                                                                                     JS ReviewList.is
movie_rater > src > components > JS Stars.js > [∅] Stars > ۞ map() callback
       import React from "react";
       import { useState } from "react";
       const Stars = () => {
        const [rating, setRating] = useState(0);
         const [hover, setHover] = useState(0);
         return (
           <div className="stars">
             {[...Array(5)].map((star, index) => {
              index = index + 1;
               button type="button" id="star-button" key={index} className={index <= rating ? "on" : "off"}</pre>
                 onClick={() => setRating(index)} onMouseEnter={() => setHover(index)} onMouseLeave={() => setHover(rating)}
                 <span className="star">&#9733;</span>
       export default Stars;
```

```
JS index.js
                                                                                                             JS ReviewList.js X
movie_rater > src > components > JS ReviewList.js > 😭 ReviewList > 🕤 constructor > 🔑 reviews > 🔑 movieReview
       import ReviewForm from "./ReviewForm";
       export default class ReviewList extends React.Component {
           constructor(props) {
                super(props);
                this.state = {
                        username: "John",
movieReview: "It was amazing!"
                         username: "Mary",
                         movieReview: "Boring!"
                         username: "Alex",
movieReview: "Not too bad!!"
            addReview(review) {
           render() {
                let reviews;
                return (
                         <div className="d-flex flex-wrap justify-content-center">
                         {reviews}
```



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```
JS Movie.js
                JS MovieList.js
                                                                   JS Review.js
                                                                                    JS ReviewForm.js X JS ReviewList.js
                                  # index.css
                                                                                                                          JS Stars.js
movie_rater > src > components > JS ReviewForm.js > ← ReviewForm > ← render
      import React from "react";
       import Review from "./Review";
       export default class ReviewForm extends React.Component {
           constructor(props) {
             super(props);
             this.state ={
               review: {
                 username: '',
                 movieReview: ''
               reviews: []
             this.handleChange = this.handleChange.bind(this);
             this.handleSubmit = this.handleSubmit.bind(this)
         handleChange(event) {
           const {value, name} = event.target;
           this.setState({
             review: {
                ...this.state.review,
               [name]: value
         handleSubmit(event) {
             if(this.state.review !== ''){
                this.state.reviews.push(new Review(this.state.username, this.state.movieReview))
             event.preventDefault();
                JS MovieList.js
                                                                   JS Review.js X
                                                  JS index.is
      import React from "react";
       import Stars from "./Stars";
       export default class Review extends React.Component {
           \color{red} \textbf{constructor}(\texttt{props}) \{
               super(props);
               this.state ={
                   username: props.username,
                   movieReview: props.movieReview,
           render() {
               return (
                   <div className="card rev-c w-75">
                        <h5 className="card-header rev-h">
                           {this.state.username}
                        <div className="card-body rev-b">
                           {this.state.movieReview}
                        <div className="card-footer rev-f">
```

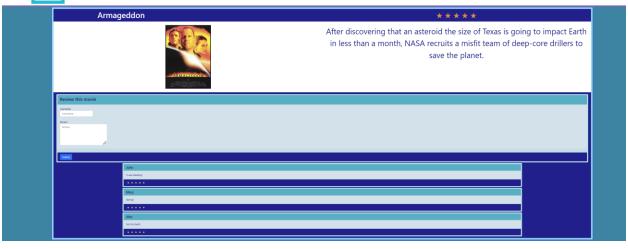


```
JS Movie.js
               JS MovieList.js
                                # index.css
                                                                                JS ReviewForm.js X
                                                                                                   JS ReviewList.is
         handleSubmit(event) {
            if(this.state.review !== ''){
              this.state.reviews.push(new Review(this.state.username, this.state.movieReview))
             event.preventDefault();
        render() {
          return (
            <div className="card rev-c">
               <form onSubmit={this.handleSubmit}>
                  <div className="card-header rev-h">
                   <div className="card-body rev-b">
                    <div className="form-group">
                         Username:
                         type="text" required
                         name="username"
 50
                         placeholder="Username"
                         className="form-control"
                         value={this.state.review.username}
                        onChange={this.handleChange}/>
                     <div className="form-group">
                        <textarea
                         required rows="5" cols="30" minLength="5"
                         name="movieReview"
                         placeholder="Review"
                        className="form-control"
                         value={this.state.review.movieReview}
                         onChange={this.handleChange} />
                 <div className="card-footer rev-f">
                  <div className="form-group">
                  <button className="btn btn-primary">Submit</button>
```

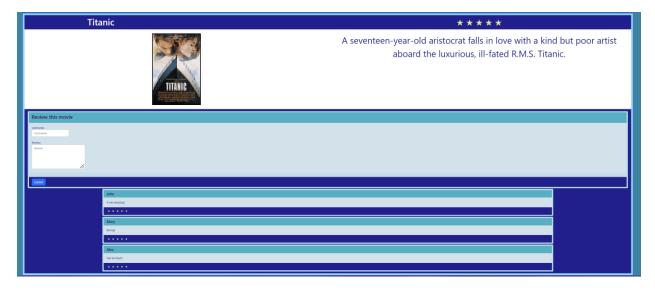
Screenshots of Running Application:



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URL to GitHub Repository:

https://github.com/JoanaBarao7/React_Week2

Note: This project was inspired on Abby Heiser's project.