

Documentation for the Star Rating Component

This documentation provides an overview of the **Star Rating Component** implemented in React. The component allows users to rate a movie by selecting stars, with dynamic updates based on user interactions.

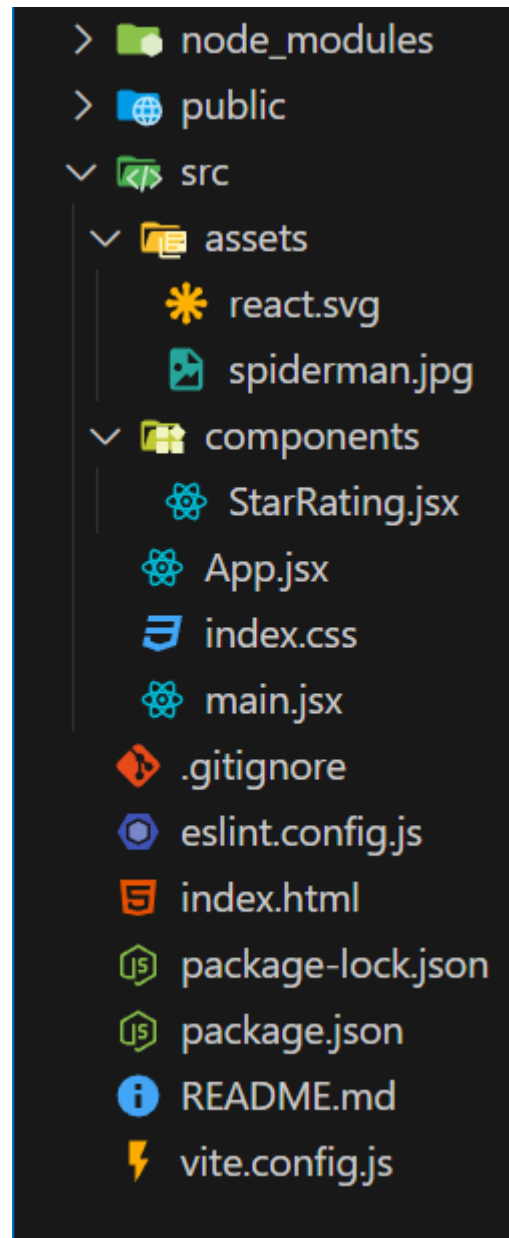
Component Overview

The StarRating component is a React functional component that renders a star rating interface. Users can click on stars to rate a movie, and the selected rating is displayed below the stars. The component also includes hover effects to preview the rating before selection.

Key Features

1. **Interactive Stars:** Users can click on stars to rate a movie.
2. **Hover Effect:** Stars temporarily highlight when hovered over, providing a preview of the rating.
3. **Dynamic Rating Display:** The selected rating is displayed below the stars in the format X/5 Rating.
4. **Reusable Component:** The component is designed to be reusable and can be easily integrated into other parts of the application.

Folder Structure



Code Breakdown

1. Imports

```
import { useState } from "react";
```

```
import spiderman from "../assets/spiderman.jpg";
```

- **useState**: A React hook used to manage the component's state (selected rating and hover state).
- **spiderman**: An image imported from the assets folder, used as a placeholder for the movie being rated.

2. State Management

```
const [rating, setRating] = useState(0);
```

```
const [hover, setHover] = useState(0);
```

- **rating**: Stores the current selected rating (0 by default).
- **hover**: Stores the hover state to temporarily highlight stars when the user hovers over them.

3. Event Handlers

```
const handleSetRating = (star) => {
```

```
  setRating(star);
```

```
};
```

- **handleSetRating**: This function updates the rating state when a user clicks on a star.

4. JSX Structure

```
return (
```

```
  <div className="card">
```

```
    <div className="container">
```

```
      <img src={spiderman} alt="" width={250} height={300} />
```

```

<h1 className="heading">Rate Movie</h1>
<div className="star-container">
  <div className="star-rating">
    {[1, 2, 3, 4, 5].map((star) => (
      <span
        key={star}
        className="star"
        onClick={() => handleSetRating(star)}
        onMouseEnter={() => setHover(star === 5 ? 5 : 0)}
        onMouseLeave={() => setHover(0)}
        style={{
          fontSize: "50px",
          cursor: "pointer",
          color: hover >= star || rating >= star ? "gold" : "grey"
        }}
      >
        ★
      </span>
    )]}
    <p className="rating-text">{rating}/5 Rating</p>
  </div>
</div>
</div>
</div>
);

```

- **card**: The main container for the component, centered on the page.

- **container:** A sub-container that holds the movie image, heading, and star rating interface.
- **star-rating:** A flex container that holds the 5 stars.
- **star:** Each star is rendered using the `.map()` method. The color of the star changes based on the hover and rating states.
- **rating-text:** Displays the selected rating below the stars.

5. CSS Styling

```
body {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
  overflow: hidden;  
}
```

```
.container {  
  width: 450px;  
  height: 550px;  
  display: flex;  
  flex-direction: column;  
  justify-content: center;  
  align-items: center;  
  background-color: black;  
  border-radius: 10px;  
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);  
}
```

```
.star-rating {
```

```
display: flex;
flex-direction: row;
justify-content: center;
align-items: center;
gap: 20px;
}
```

```
.rating-text {
  color: white;
  font: bold;
}
```

```
.heading {
  text-align: center;
  margin-top: 20px;
  color: blue;
}
```

```
.heading + h4 {
  color: green;
}
```

```
.card {
  width: 100%;
  display: flex;
  justify-content: center;
```

```
align-items: center;
min-height: 100vh;
background-color: red;
}
```

- **body**: Resets default margin, padding, and box-sizing for the entire page.
- **container**: Styles the container that holds the movie image, heading, and star rating.
- **star-rating**: Styles the flex container for the stars.
- **rating-text**: Styles the text that displays the selected rating.
- **heading**: Styles the heading text.
- **card**: Styles the main card container, centering it on the page.

Functionality

1. Clicking a Star:

- When a user clicks on a star, the `handleSetRating` function is called, updating the rating state.
- The stars are dynamically rendered using `.map()`, and the color of the stars changes based on the rating state.

2. Hover Effect:

- When a user hovers over a star, the hover state is updated, temporarily highlighting the stars.
- The hover effect is removed when the mouse leaves the star area.

3. Rating Display:

- The selected rating is displayed below the stars in the format `X/5 Rating`.

Usage

To use the StarRating component, simply import and include it in your React application:

```
import StarRating from "../components/StarRating";
```

```
function App() {  
  return (  
    <div>  
      <StarRating />  
    </div>  
  );  
}
```

```
export default App;
```

Dependencies

- **React:** The component uses React hooks (useState) for state management.
- **CSS:** Custom CSS is used for styling the component.

Limitations

- The component currently supports only 5 stars.
- The hover effect is limited to the 5th star due to the condition `star === 5 ? 5 : 0`.

Future Improvements

1. **Customizable Number of Stars:** Allow the component to accept a prop for the number of stars (e.g., 10 stars).

2. **Improved Hover Logic:** Enhance the hover effect to work for all stars, not just the 5th star.
 3. **Accessibility:** Add ARIA labels and keyboard navigation for better accessibility.
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