

Rating Component Documentation

Overview :

The Rating Component is a React functional component that allows users to rate items using a star-based rating system. It provides an interactive UI where users can hover over and click on stars to select a rating.

Features :

- **Star Rating System:** Allows users to select a rating between 1 and 5.
- **Hover Effect:** Highlights stars on hover before selection.
- **Persistent Rating:** Stores the selected rating in the component state.

Requirements :

- React
- JavaScript
- CSS
- react-icons (for rendering star icons)

Dependencies :

- **react:** Uses the React library for component building.
- **useState:** Manages the rating and hover state.
- **PropTypes:** Defines expected props for validation.
- **react-icons/fa:** Provides FontAwesome star icons for the rating display.

Functional Breakdown :

Rating State Management -

- The component maintains a rating state initialized from `initialRating`.
- A hover state is used to manage temporary highlights while hovering over stars.

Star Interaction -

- Users can hover over stars to preview a rating.

- Clicking a star sets the rating state.
- Moving the mouse away resets the temporary highlight (hover effect).

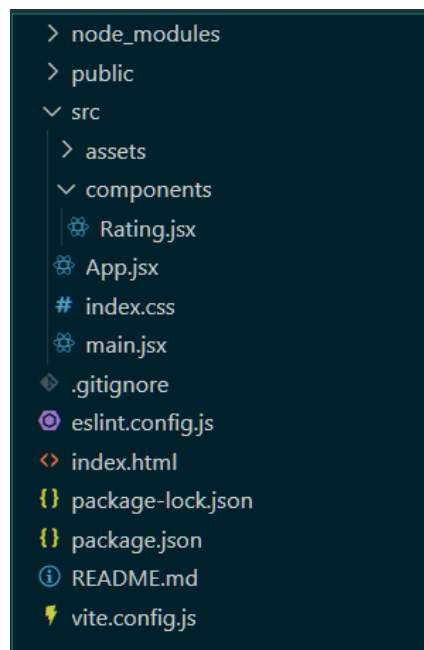
Event Handlers :

- **onClick (setRating):** Sets the rating when a star is clicked.
- **onMouseEnter (setHover):** Temporarily highlights stars on hover.
- **onMouseLeave (resetHover):** Resets the highlight when the mouse leaves.

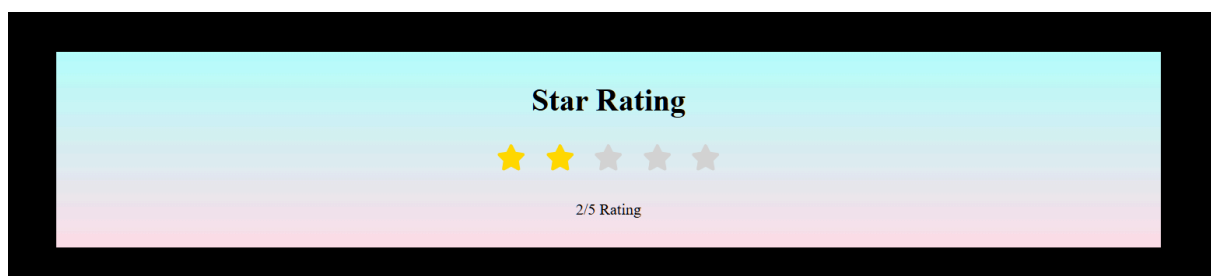
Props :

- **initialRating (number, optional):** The default rating when the component loads. Default is 0.

Project Structure :



Output :



Conclusion :

The Rating Component is a simple and effective way to integrate user ratings into a React application. It is customizable and can be extended with additional styling or functionality as needed.