## TodoContainer.js

This is a React component for a todo app that fetches data from an API and displays it on the screen. It has functionality to add, edit, and delete todo items, as well as sort them. It also allows users to click on a todo item to view and edit its description.

The component takes in four props:

- tableName: a string that specifies the table to fetch data from
- sideBar: a boolean that determines whether or not to display the sidebar
- searchTerm: a string that specifies the search term to filter the data
- setCurrentLink: a function that sets the current link in the navigation bar

The component renders an AddTodoForm, a SortButton, and a TodoList component. When the user clicks on a todo item in the TodoList, a ItemDescription component is rendered on the right side of the screen.

The component uses the useState and useEffect hooks to manage state and perform side effects. It also imports functions from an API file to interact with the backend API.

Inside the component, it initializes several state variables using the useState hook:

- todoList: an array of todo list items.
- isLoading: a boolean that indicates whether the data is currently being fetched from the server.
- direction: a string that indicates the sorting direction, either "asc" or "desc".
- itemDescription: a string that represents the currently selected todo item for displaying its description.
- showDescription: a boolean that indicates whether to show the item description panel or not.
- errorMessage: a string to hold error messages that may occur during the application's execution.

The component has two useEffect hooks:

• The first useEffect hook calls the requestGetTodo function from API. js to fetch the data from the server when the component is mounted. The fetched data is then stored in the todoList state variable. If an error occurs, the errorMessage state variable is set to an appropriate message.

• The second useEffect hook monitors the changes in todoList and isLoading variables. When isLoading becomes false, it stores the todoList state variable in the local storage as a JSON string.

## The component has several functions:

- handleSort is a function that sets the direction state variable to the opposite direction and then calls the requestSortedList function.
- requestSortedList function calls the requestSortData function from API.js to sort the todo list data based on the current direction. If the sorting is successful, the todoList state variable is set to the new sorted list. If an error occurs, the errorMessage state variable is set to an appropriate message.
- addTodo is a function that calls the requestAddTodo function from API. js to add a new todo item to the list. If the addition is successful, the todoList state variable is updated with the new list of items. If an error occurs, the errorMessage state variable is set to an appropriate message.
- removeTodo is a function that calls the requestDeleteTodo function from API. js to remove a todo item from the list. If the removal is successful, the todoList state variable is updated with the new list of items. If an error occurs, the errorMessage state variable is set to an appropriate message.
- editTodo is a function that calls the requestEditTodo function from API.js to edit a todo item in the list. If the editing is successful, the todoList state variable is updated with the new list of items.
- editDescription is a function that calls the requestEditDescription function from API. js to edit the description of a todo item in the list. If the editing is successful, the todoList state variable is updated with the new list of items.
- handleDescription is a function that toggles the showDescription state variable and sets the itemDescription variable to the ID of the selected todo item.