SteelEye Assessment

FontEnd

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Q1: Explain what the simple List component does.

- The `List` component is a simple React component that displays a list of items. It takes an `items` prop, which is an array of objects with a `text` property. The component maps over the `items` array and renders a `SingleListItem` component for each item.

- The `SingleListItem` component displays the `text` property of the item and has a click handler that calls the `handleClick` function in the `List` component with the index of the clicked item. The `handleClick` function updates the `selectedIndex` state value to the index of the clicked item.

- The `List` component also has a `use Effect` hook that resets the `selectedIndex` state value to `null` whenever the `items` prop changes.

Q2: What problems / warnings are there with code?

- propTypes.default.shapeOf is not a correct syntax.
- setSelectedIndex is not a function, It's a state setter.
- Wrong dependency in useEffect hook.
- Items set to null (which results, that doesn't show anything on to the screen).
- Automatically invokes the onClickHandler function without clicking on it.
- Each child in a list should have a unique "key" prop.
- The memo hook is used for both components, which was not necessary for WrappedSingleList Item.

Q3: Please fix, optimize, and/or modify the component as much as you think is necessary.

- Changing propTypes.default.shapeOf to propTypes.default.shape
- Inside useState hook setting the function i.e., setSelectedIndex correctly (rectifying syntax error).
- removing dependecy "items" from useEffect hook, so that we can avoid calling useEffect hook whenever the state changes.
- Adding items i.e., "item1", "item2" and so on that are passed further as props into the list component.

- putting "onClickHandler" function inside arrow function which invokes this function only by clicking on the items.
- Adding unique key prop to singleListItem component.
- Deleting the unnecessary memo.