**HANDSON - REACT**

Here's a very simple To-Do app using React. This example will cover the basic functionality where you can add a task, mark it as completed, and remove it from the list.

**Steps:**

1. Create a new React app using Create React App or any React setup.
2. Implement a basic To-Do list where users can add, delete, and mark tasks as completed.

**Code Example:**

**App.js**

javascript

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import React, { useState } from 'react';

import './App.css';

function App() {

const [tasks, setTasks] = useState([]); // State to hold tasks

const [task, setTask] = useState(''); // State to hold new task input

// Function to handle adding a new task

const addTask = () => {

if (task.trim()) {

setTasks([...tasks, { text: task, completed: false }]);

setTask(''); // Clear input after adding task

}

};

// Function to handle deleting a task

const deleteTask = (index) => {

const updatedTasks = tasks.filter((\_, i) => i !== index);

setTasks(updatedTasks);

};

// Function to toggle completion status of a task

const toggleTask = (index) => {

const updatedTasks = tasks.map((task, i) => {

if (i === index) {

return { ...task, completed: !task.completed };

}

return task;

});

setTasks(updatedTasks);

};

return (

<div className="App">

<h1>To-Do App</h1>

<div>

<input

type="text"

value={task}

placeholder="Enter a new task"

/>

<button onClick={addTask}>Add Task</button>

</div>

<ul>

{tasks.map((task, index) => (

<li key={index} style={{ textDecoration: task.completed ? 'line-through' : 'none' }}>

<span onClick={() => toggleTask(index)}>{task.text}</span>

<button onClick={() => deleteTask(index)}>Delete</button>

</li>

))}

</ul>

</div>

);

}

export default App;

**App.css**

css

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.App {

font-family: Arial, sans-serif;

text-align: center;

padding: 20px;

}

input {

padding: 10px;

font-size: 16px;

margin-right: 10px;

}

button {

padding: 10px;

font-size: 16px;

cursor: pointer;

margin-top: 10px;

}

button:hover {

background-color: #ccc;

}

ul {

list-style-type: none;

padding: 0;

}

li {

margin: 10px 0;

padding: 10px;

background-color: #f4f4f4;

border-radius: 5px;

}

span {

cursor: pointer;

}

span:hover {

text-decoration: underline;

}

**Explanation:**

* **State Management**:
  + tasks: This holds the array of tasks, each with a text (task description) and completed (a boolean).
  + task: Holds the value of the current task input field.
* **Adding a Task**: When the "Add Task" button is clicked, the addTask function is triggered, which adds the current task (if not empty) to the tasks list and clears the input field.
* **Toggling Task Completion**: Clicking on a task marks it as completed by toggling the completed state (using toggleTask). Completed tasks are displayed with a line-through style.
* **Deleting a Task**: Clicking the "Delete" button next to a task removes it from the list using the deleteTask function.

**How to Run:**

1. Create a new React app using Create React App (if you haven't already):

bash

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npx create-react-app todo-app

cd todo-app

1. Replace the contents of src/App.js with the above code.
2. Replace or add the src/App.css file with the provided CSS.
3. Run the app:

bash

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npm start

**Result:**

* You'll see an input field to add a new task, a button to submit the task, and a list of tasks that you can toggle as completed or delete.