

A Simple React ToDo List Application

Node.js Installation guide

Step 1: Install Node.js and npm

First, ensure we have Node.js and npm installed on the system. We can download them from nodejs.org.

Step 2: Create a New React App

Run these commands in terminal:

```
npx create-react-app todo-list  
cd todo-list
```

Step 3: Start the Development Server

Start the React development server to see your application in action:

```
npm start
```

Building the ToDo List Application

Step 1: Clean Up the Initial Setup

Remove the default content in the `src` directory:

- Delete `App.css`, `App.test.js`, `logo.svg`.
- Clear out the `App.js` and `index.css` files.
-

Step 2: Create the ToDo Component

Todo.js code:

```
// src/ToDo.js  
import React, { useState } from 'react';  
  
function ToDo() {  
  const [todos, setTodos] = useState([]);  
  const [inputValue, setInputValue] = useState("");  
  
  const handleAddTodo = () => {  
    if (inputValue.trim() !== "") {  
      setTodos([...todos, inputValue]);  
      setInputValue("");  
    }  
  };  
  
  const handleDeleteTodo = (index) => {  
    const newTodos = todos.filter((_, todoIndex) => todoIndex !== index);  
    setTodos(newTodos);  
  };  
};
```

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```
return (  
  <div style={{ textAlign: 'center', marginTop: '50px' }}>  
    <h1>ToDo List</h1>  
    <input  
      type="text"  
      value={inputValue}  
      onChange={(e) => setInputValue(e.target.value)}  
      placeholder="Add a new task"  
    />  
    <button onClick={handleAddTodo}>Add</button>  
    <ul>  
      {todos.map((todo, index) => (  
        <li key={index}>  
          {todo} <button onClick={() => handleDeleteTodo(index)}>Delete</button>  
        </li>  
      ))}  
    </ul>  
  </div>  
);  
}  
  
export default ToDo;
```

Step 3: Update the App Component

App.js code:

```
// src/App.js  
import React from 'react';  
import ToDo from './ToDo';  
  
function App() {  
  return (  
    <div>  
      <ToDo />  
    </div>  
  );  
}  
  
export default App;
```

Step 4: Style the Application

Index.css code:

```
/* src/index.css */  
body {  
  font-family: Arial, sans-serif;  
}
```

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```
input {  
  margin-right: 10px;  
}
```

```
button {  
  margin-left: 10px;  
  cursor: pointer;  
}
```

```
ul {  
  list-style-type: none;  
  padding: 0;  
}
```

```
li {  
  margin: 10px 0;  
}
```

Step 5: Render the Application

Index.js code:

```
// src/index.js  
import React from 'react';  
import ReactDOM from 'react-dom';  
import './index.css';  
import App from './App';
```

```
ReactDOM.render(  
  <React.StrictMode>  
    <App />  
  </React.StrictMode>,  
  document.getElementById('root')  
)
```

Step 6: Run it on localhost/ localserver:

Terminal code:

```
npm start
```

Screenshots:

