

Deliverable 2: Project: Create a simple React application (e.g., a todo list). Include setup steps, code snippets, and screenshots demonstrating the application in action.

A simple React application for a todo list. We'll go through the setup steps, provide code snippets, and include screenshots.

## Step 1: Set Up the React Application

**Install Node.js and npm:** Ensure you have Node.js and npm installed. You can download it from [Node.js](https://nodejs.org/)

**Create a New React Application:** Open your terminal and run:

```
PS C:\Users\himan\Dropbox\PC\Desktop\React> npx create-react-app todo-list
```

```
cd todo-list
```

Start the Development Server:

```
npm start
```

## Step 2: Create the Todo List Component

**Remove Unnecessary Files:** Delete unnecessary files from the `src` folder (App.css, App.test.js, logo.svg, reportWebVitals.js, setupTests.js).

**Create TodoList Component:** Create a new file `TodoList.js` in the `src` folder and add the following code:

```

todo-list > src > JS TodoList.js > [0] TodoList
1  import React, { useState } from 'react';
2
3  const TodoList = () => {
4      const [todos, setTodos] = useState([]);
5      const [input, setInput] = useState('');
6
7      const addTodo = () => {
8          if (input.trim()) {
9              setTodos([...todos, input]);
10             setInput('');
11         }
12     };
13
14     return (
15         <div style={{ padding: 20 }}>
16             <h1>Todo List</h1>
17             <input
18                 type="text"
19                 value={input}
20                 onChange={(e) => setInput(e.target.value)}
21                 placeholder="Add a new todo"
22                 style={{ padding: 10, fontSize: 16 }}
23             />

```

```

                style={{ padding: 10, fontSize: 16 }}
            />
        <button onClick={addTodo} style={{ marginLeft: 10, padding: 10 }}>
            Add
        </button>
        <ul style={{ listStyleType: 'none', padding: 0 }}>
            {todos.map((todo, index) => (
                <li key={index} style={{ padding: 10, borderBottom: '1px solid #ccc' }}>
                    {todo}
                </li>
            ))}
        </ul>
    </div>
);
};

export default TodoList;

```

Update App Component: Replace the code in App.js with the following:

```
todo-list > src > JS App.js > ...
1  import React from 'react';
2  import TodoList from './TodoList';
3
4  const App = () => {
5    return (
6      <div>
7        <TodoList />
8      </div>
9    );
10 };
11
12 export default App;
13
```

Add Basic Styles: Update index.css for some basic styling

```
todo-list > src > # index.css > #root
1
2
3  code {
4    font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',
5      monospace;
6  }
7  body {
8    font-family: Arial, sans-serif;
9    background-color: #f0f0f0;
10   margin: 0;
11   padding: 0;
12 }
13
14 #root {
15   display: flex;
16   justify-content: center;
17   align-items: center;
18   height: 100vh;
19 }
20
```

## Step 3: Run the Application

### Start the Development Server:

```
npm start
```

Open the Application in Your Browser: The todo list application should be running at <http://localhost:3000>.

```
You can now view todo-list in the browser.  
  
Local:           http://localhost:3000  
On Your Network: http://192.168.56.1:3000
```

## Screenshot

Here's a screenshot demonstrating the application in action:

