**Step-by-Step Guide**

1. **Create a New Vite Project:**

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# Create a new Vite project

npm create vite@latest my-react-ts-app --template react-ts

# Navigate to the project directory

cd my-react-ts-app

# Install dependencies

npm install

1. **Set Up the Component:**

Open the src/App.tsx file and replace its content with the following code:

tsx

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1. import React, { useState, ChangeEvent } from 'react';
2. import './App.css';
3. import './index.css'; // Ensure you have Tailwind CSS configured
4. function App() {
5. // State to store the current value of the input field
6. const [inputValue, setInputValue] = useState<string>('');
7. // State to store the value that gets saved when the button is clicked
8. const [savedValue, setSavedValue] = useState<string>('');
9. // Function to handle changes in the input field
10. const handleInputChange = (event: ChangeEvent<HTMLInputElement>) => {
11. setInputValue(event.target.value);
12. };
13. // Function to handle the button click and save the input value
14. const handleButtonClick = () => {
15. setSavedValue(inputValue);
16. };
17. return (
18. <div className="p-4">
19. <h1 className="text-xl font-bold mb-4">Save Input to State</h1>
20. <input
21. type="text"
22. value={inputValue}
23. onChange={handleInputChange}
24. className="border p-2 mb-4"
25. placeholder="Enter something..."
26. />
27. <button
28. onClick={handleButtonClick}
29. className="bg-blue-500 text-white px-4 py-2 rounded"
30. >
31. Save
32. </button>
33. <p className="mt-4">Saved Value: {savedValue}</p>
34. </div>
35. );
36. }
37. export default App;

**Install and Configure Tailwind CSS:**

If you don't have Tailwind CSS set up, follow these steps:

* Install Tailwind CSS:

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npm install -D tailwindcss postcss autoprefixer

npx tailwindcss init -p

* Configure Tailwind CSS:

Add the paths to your template files in tailwind.config.js:

js

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module.exports = {

content: ['./index.html', './src/\*\*/\*.{js,ts,jsx,tsx}'],

theme: {

extend: {},

},

plugins: [],

};

* Add the Tailwind directives to your CSS:

Create a src/index.css file and add the following:

css

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@tailwind base;

@tailwind components;

@tailwind utilities;

* Import the CSS file in your main.tsx:

tsx

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import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

import './index.css'; // Import Tailwind CSS

ReactDOM.createRoot(document.getElementById('root') as HTMLElement).render(

<React.StrictMode>

<App />

</React.StrictMode>

);

1. **Run Your Project:**

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npm run dev

Now, you should have a working Vite project with a React and TypeScript setup. The project includes an input field and a button. When you enter a value in the input field and press the button, the value is saved in the state and displayed on the page.

This setup uses Tailwind CSS for styling and shows how to handle state in React using TypeScript.