**Step 1: Create a New Vite TypeScript Project**

1. **Open your terminal or command prompt.**
2. **Run the following commands:**

sh

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# Create a new Vite project

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

# Navigate into the project directory

cd my-vite-app

# Install dependencies

npm install

**Step 2: Add a JSON File with Data**

1. **In your project directory, create a new file called data.json inside the src folder.**
2. **Add your data to this file. Here’s an example of what the JSON file might look like:**

json

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[

{ "id": 1, "name": "John Doe", "age": 30 },

{ "id": 2, "name": "Jane Smith", "age": 25 },

{ "id": 3, "name": "Alice Johnson", "age": 28 },

{ "id": 4, "name": "Bob Brown", "age": 22 },

{ "id": 5, "name": "Charlie Davis", "age": 35 },

{ "id": 6, "name": "Dana Evans", "age": 29 },

{ "id": 7, "name": "Eva Green", "age": 31 },

{ "id": 8, "name": "Frank Harris", "age": 33 },

{ "id": 9, "name": "Grace Lee", "age": 27 },

{ "id": 10, "name": "Henry Miller", "age": 34 },

{ "id": 11, "name": "Ivy Nelson", "age": 26 },

{ "id": 12, "name": "Jack O'Brien", "age": 32 },

{ "id": 13, "name": "Karen Parker", "age": 24 },

{ "id": 14, "name": "Leo Quinn", "age": 29 },

{ "id": 15, "name": "Mia Roberts", "age": 23 }

]

**Step 3: Create a Component to Display the Data**

1. **Open src/App.tsx and update it to import and display the data from data.json.**

tsx

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import React, { useEffect, useState } from 'react';

import './App.css';

import data from './data.json'; // Import the data from the JSON file

interface Person {

id: number;

name: string;

age: number;

}

function App() {

const [people, setPeople] = useState<Person[]>([]);

useEffect(() => {

// Simulate fetching data

setPeople(data);

}, []);

return (

<div className="App">

<h1>People List</h1>

<ul>

{people.map(person => (

<li key={person.id}>

{person.name}, Age: {person.age}

</li>

))}

</ul>

</div>

);

}

export default App;

**Step 4: Add Tailwind CSS (Optional)**

If you want to use Tailwind CSS, follow these steps:

1. **Install Tailwind CSS:**

sh

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npm install -D tailwindcss postcss autoprefixer

npx tailwindcss init -p

1. **Configure Tailwind by adding the paths to your template files in the tailwind.config.js file:**

js

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/\*\* @type {import('tailwindcss').Config} \*/

export default {

content: [

"./index.html",

"./src/\*\*/\*.{js,ts,jsx,tsx}",

],

theme: {

extend: {},

},

plugins: [],

}

1. **Add the Tailwind directives to your CSS in src/index.css:**

css

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@tailwind base;

@tailwind components;

@tailwind utilities;

1. **Update your App.tsx to use Tailwind classes:**

tsx

Copy code

import React, { useEffect, useState } from 'react';

import './App.css';

import data from './data.json'; // Import the data from the JSON file

interface Person {

id: number;

name: string;

age: number;

}

function App() {

const [people, setPeople] = useState<Person[]>([]);

useEffect(() => {

// Simulate fetching data

setPeople(data);

}, []);

return (

<div className="App">

<h1 className="text-2xl font-bold mb-4">People List</h1>

<ul className="list-disc pl-5">

{people.map(person => (

<li key={person.id} className="mb-2">

{person.name}, Age: {person.age}

</li>

))}

</ul>

</div>

);

}

export default App;

**Step 5: Start the Development Server**

1. **Run the development server:**

sh

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npm run dev

1. **Open your browser and navigate to the URL provided (usually http://localhost:5173) to see your app in action.**

That's it! You've created a new Vite TypeScript project, added a JSON file, and displayed the data on the homepage using React. You also learned how to optionally add Tailwind CSS for styling.