⚙ React Project Setup with Vite (Step-by-Step Guide)

■ From creating your first project to running it locally — explained simply!

1⃣ Create a New Project

npm create vite@latest react-demo --template react

🔍 What It Does:

- npm create – Shortcut for running a project generator (no global install needed)
- vite@latest – Uses the latest version of Vite
- react-demo – Your project folder name
- --template react – Tells Vite to set up a React project

🎁 Behind the Scenes:

- Sets up folder structure
- Adds default React files (App.jsx, main.jsx)
- Creates package.json with dependencies

2⃣ Navigate Into Your Project

cd react-demo

🔍 Why It's Important:

- Ensures you run all remaining commands **inside your project folder**
- Without this, npm won't find the right files

3⃣ Install Dependencies

npm install

🔍 What Happens:

- Installs everything listed in package.json
- Creates node_modules/ where packages live

- Generates `package-lock.json` for version tracking

💡 Why You Need It:

- React, Vite, and other tools won't work without this step

4️ Start the Dev Server

npm run dev

🔥 What It Does:

- Launches Vite's **fast dev server**
- Opens your app in the browser
- Enables:
  - 🔁 Hot Reloading (auto updates with no refresh)
  - 🛠 Error highlighting
  - ⚡ Blazing-fast live preview

✅ Complete Setup Flow Recap:

1. 🚀 **Create project** → npm create vite@latest …
2. 📂 **Enter folder** → cd react-demo
3. 🎁 **Install packages** → npm install
4. ▶ **Run & preview** → npm run dev

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