📘 React App Setup Guide

This document covers how to create a React application using two methods:

1. Vite (modern, fast build tool)
2. Create React App (older standard tool)

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1 Creating a React App using Vite

✅ Prerequisites:

- Node.js installed (v14+)
- npm or yarn

🛠 Steps:

Step 1: Create the app

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

You can also use yarn or pnpm if preferred.

Step 2: Move into the project directory

cd my-react-app

Step 3: Install dependencies

npm install

Step 4: Start the development server

npm run dev

Step 5: Open in Browser

Visit http://localhost:5173

📁 Vite Project Structure

my-react-app/

├── public/

├── src/

│   ├── App.jsx

│   └── main.jsx

```
├── index.html

├── package.json

├── vite.config.js
```

2 Creating a React App using Create React App (CRA)

✅ Prerequisites:

- Node.js installed (v14+)

- npm or yarn

🛠 Steps:

Step 1: Create the app

npx create-react-app my-react-app

Step 2: Move into the project directory

cd my-react-app

Step 3: Start the development server

npm start

Step 4: Open in Browser

Visit http://localhost:3000

📁 CRA Project Structure

```
my-react-app/

├── public/

├── src/

│   ├── App.js

│   └── index.js

├── package.json

├── README.md
```

🔍 Key Differences

Feature	Vite	Create React App (CRA)
Speed	Fast (native ESM)	Slower (bundled with Webpack)
Configuration	Minimal, flexible	Pre-configured
Build Tool	Vite (ESBuild + Rollup)	Webpack
Dev Server	Lightning-fast HMR	Standard Webpack dev server
Status	Actively growing	Deprecated (in 2024)

✨ Recommendation

Use **Vite** for all new React projects due to its speed, simplicity, and modern ecosystem.