Setting Up Development Environment

Step 1: Installing Node.js

Node.js is essential for running React applications. Follow these steps to install Node.js:

1. Visit the [Node.js official website](https://nodejs.org/).
2. Download the LTS version suitable for your operating system.
3. Run the installer and follow the prompts to complete the installation.
4. Check if it is installed or not by writing this code in terminal => node -v

Step 2: Installing Bun Package Manager

Bun is a fast and modern package manager for JavaScript. Here's how to install it:

1. Open your terminal or command prompt in your folder.
2. Run the following command to install Bun:

npm install -g bun (make sure to add -g flag)

If it's not working then 👇

curl -fsSL https://bun.sh/install | bash

1. Check the bun if it is installed or not => bun –v

Step 3: Creating a React App with Vite

Vite is a build tool that provides a fast and efficient way to set up a React project. Follow these steps to create your first React app:

**Link => https://vite.dev/guide/**

1. Open your terminal or command prompt.
2. Run the following commands to create a new React project using Vite:

bun create vite@latest appName --template react

cd appName

bun install

1. Start the development server:

bun run dev

Step 4: Writing Your First "Hello World" Program

Now that your React app is set up, let's write a simple "Hello World" program:

1. Open src/App.jsx in VSCode.
2. Replace the default code with the following:

import React from 'react';

function App() {

return (

Hello World

);

}

export default App;

1. Save the file and see the changes live in your browser.

Step 6: Upgrading to React v19 RC

If you're using React v18 and want to upgrade to React v19 Release Candidate, follow these steps:

1. Open your terminal or command prompt.
2. Run the following command to update React:

bun install react@rc react-dom@rc

Step 7: Installing the tailwind css

npm install -D tailwindcss@3 postcss autoprefixer

npx tailwindcss init -p

1. Paste in the tailwind.config.js

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

module.exports = {

  content: [

    "./src/\*\*/\*.{js,jsx,ts,tsx}",

  ],

  theme: {

    extend: {},

  },

  plugins: [],

}

Paste it in the index.css

@tailwind base;

@tailwind components;

@tailwind utilities;