# Group 1: Introduction to ReactJS

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**Setup a React Project Using Create React App**

1. Install Node.js

Before setting up a React app, make sure you have **Node.js** and **npm** (Node Package Manager) installed on your computer.

* To check if Node.js is installed, open your terminal and run:

**node -v**

**npm -v**

* If you don't have Node.js installed, you can download it from the official website: <https://nodejs.org/>.

2. Install create-react-app

To create a new React project, you can use create-react-app, which is a tool for setting up a new React app with a ready-to-use configuration.

Run the following command in your terminal to install it globally:

**npm install -g create-react-app**

**3. Create a New React Project**

Once create-react-app is installed globally, you can create a new React application by running:

**npx create-react-app my-app**

Replace my-app with the name of your project.

* npx is a package runner that comes with npm 5.2 and higher, and it allows you to run packages without installing them globally.

**4. Navigate to the Project Folder**

After the project is created, navigate to your project folder:

**cd my-app**

**5. Start the Development Server**

Now, you can start the React development server:

**npm start**

This will open a new browser window with your React app running at http://localhost:3000. Any changes you make to the app will automatically reload the page.

**6. Your Project Structure**

At this point, your project directory (my-app) will have the following structure:

my-app/

├── node\_modules/ # Installed npm packages

├── public/ # Public files (index.html, etc.)

├── src/ # Source code (JS, React components, etc.)

│ ├── App.css

│ ├── App.js

│ ├── index.css

│ ├── index.js # Entry point (where React is rendered)

│ └── ...

├── package.json # Project metadata, dependencies, etc.

└── README.md # Project documentation

**7. Install Additional Dependencies (Optional)**

You can install additional packages as needed. For example, if you want to add React Router for routing:

**npm install react-router-dom**

Or if you need state management like Redux:

**npm install redux react-redux**

**Summary**

1. Install Node.js and npm.
2. Use npx create-react-app <project-name> to create your app.
3. Navigate to the project folder.
4. Run npm start to start the app.