Step To Install React :-

1. Download the stable version of Node JS.
2. npx create-react-app<project\_name>

npm package runner

or

npm install create-react-app -g

create-react-app<project\_name>

or

yarn install create-react-app -g

1. Package.json file :- contains dependencies and scripts that required for the project.

Node\_modules :- folder in which all the dependencies are installed.

Index.html file :- Only html file in your application.

Index.js :-

App.js :-

For creating new Component:

* npm install create-react-component -g
* create-react-component <componentName>

For Routing:

* npm i react-router-dom --save

--save means – name stores in package.json file.

Babel == react-script

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React Component is of two types:-

1. Function Component
2. Class Component

Required Libraries for React Project:-

1. React – To prepare the component/content only.
2. Babel – Compiling the content.
3. ReactDOM – To render the content on our HTML page/browser

Ex:

ReactDOM.render(<element/Component />, container/reference ,callback);

ReactDOM.render(<App />, document.getElementById(“root”));

|  |  |
| --- | --- |
| HTML   * <div> Hello * If we not use end </div> tag. * No compilation. * No Error Executed. * Result will be shown on the page | JSX (JavaScript XML)  <div>Hello  If we not use end </div> tag.  Compilation done by babel.  Gives Error.  Result is not render due to error. |

Component – To create some piece of code.

* It contains piece of code.
* We can reuse that.

--import order should be preserved – React > ReactDOM - babel may be in b/w or in last position.

<div id=”root”></div>

Ex:

Const App = () =>{ return <h1>Hello World</h1>}

ReactDOM.render(<App />, document.getElementById(“root”));

Ex:

Cons Hello = (data) => { return <h1>Hello….{data.n}…am from {data.loc}</h1>}

Functional Component :-

Simple functions

Use Function components as much as possible

Absence of ‘this’ keyword

Solution without using state

Mainly responsible for the UI

Class Component :-

Lifecycle Hooks Methods:-

componentWillMount()

componentDidMount()

componentWillUnmount()

shouldComponentUpdata()

componentWillReceive()

componentWillUpdate()

componentDidCatch()