



CYBERNIX

presents

ReactJS

Bootcamp

Introduction to **ReactJS**



What is ReactJs?

ReactJs is a JavaScript library for building user interfaces. It is developed by Facebook developer team initially.

Development setup

- First download node from <https://nodejs.org/en/>
- Install node by running the installer
- Test wheter it's installed

```
node -v
```

```
npm -v
```

- Create React App template

```
npx create-react-app .
```

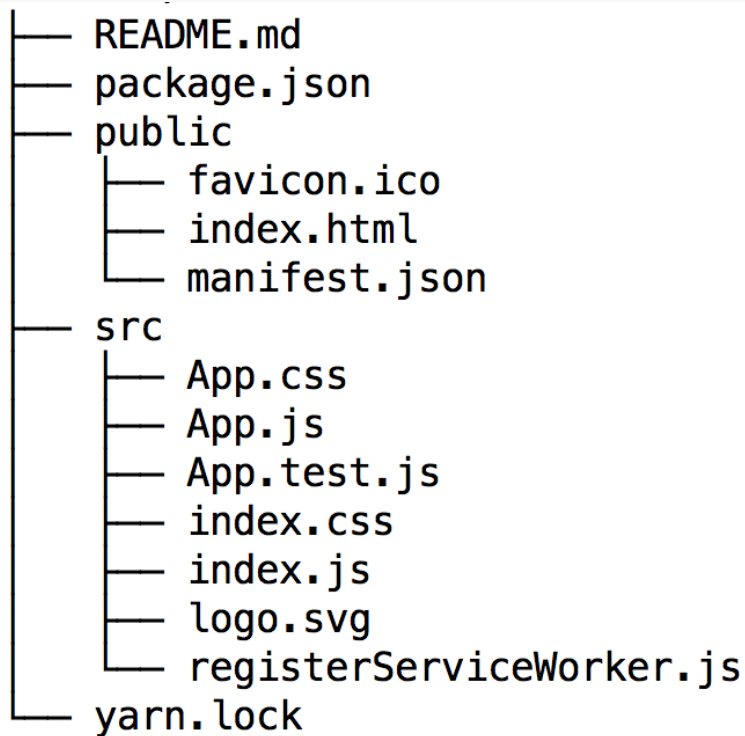
Online React Editor

Open your browser and enter the url

react.new



React File Structure



What is Component in ReactJs?

- Conceptually, components are like JavaScript functions
- Components let you split the UI into independent, reusable pieces, and think about each piece in isolation

Hooks in React

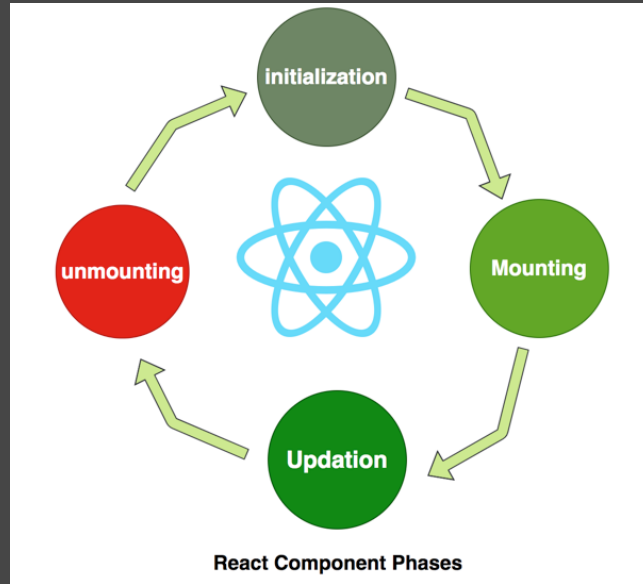
- Hooks are `JavaScript functions`, but it has special properties associated with react life cycle.
- We can extract stateful logic from a component so it can be tested `independently` and `reused`.

What is state in React?


- The state is a built-in React object that is used to contain data or information about the component
- Every time the state of an object changes, React re-renders the component to the browser

```
const [value, setValue] = useState(0);
```



Life-cycle in ReactJS




useEffect in React



Helps to control
component life
cycle




useEffect Hook
allows you to perform
side effects in your
components.



Helps to manage data
flow and conditional
function/api calling

API



API is the acronym for `Application Programming Interface`, which
is a software intermediary that allows two applications to talk
to each other. Each time you use an app like Facebook,
send an instant message, or check the weather on your phone,
you're using an API.

API fetching using axios

01.

GET request

```
const url = "https://jsonplaceholder.typicode.com/todos/1";  
axios.get(url).then(response => console.log(response.data));
```

02.

POST Request

```
const url = "https://sayan.gq/search";  
axios.post(url, {query: "batman"}).then(res => console.log(res.data));
```



Thank You!