Date: 29 - 06 - 2020

Morning Session : 11.30am – 1.30 PM By ~ Sundeep Charan Ramkumar Today



Reach is Library which just contains an architecture to have efficient component reloading.

React is not native to JS; we would need to install packages for it.

- 1) Npm package
- 2) Script file

React CDN links:

https://reactjs.org/docs/cdn-links.html

```
<script crossorigin src="https://unpkg.com/react@16/umd/react.development.js">></script>

<script crossorigin src="https://unpkg.com/react-dom@16/umd/react-dom.development.js">></script>
```

React gets singular application tag inside HTML; that is it means a singular HTML tag to mount the code, it could be the super parent element of where you are mount your HTML.

```
<div class="container"></div>
<script crossorigin src="https://unpkg.com/react@16/umd/react.development.js"></script>
<script crossorigin src="https://unpkg.com/react-dom@16/umd/react-dom.development.js"></script></script></script>
```

Lets create a function which is just going to return something of a react element

```
const h1Element = React.createElement("h1", null, "my frist react H1 tag");

ReactDOM.render(h1Element, document.querySelector(".container"));

</script>
```

my frist react H1 tag

JSX: (JAVASCRIPT XML)

```
// JSX = JavaScript XML
const h1Element = <h1>My first React H1 tag</h1>;
ReactDOM.render(h1Element, document.querySelector(".container"));
React.createElement("div", null, React.createElement());
```

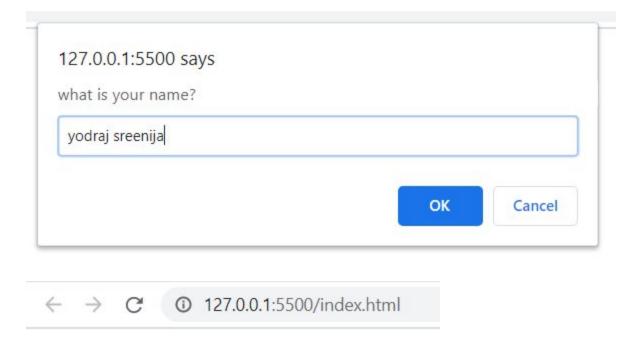
As an alternative to JSX, you can use ES6 and Javascript compiler like Babel.

https://babeljs.io/setup#installation

<script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>

← → C ① 127.0.0.1:5500/index.html

my frist react H1 tag



yodraj sreenija

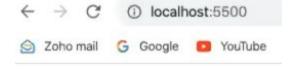
Types of components: Class base components, function base components

```
const boxStyle = {
 width: "100px",
 height: "100px",
 background: "red"
};
// Functional components
const App = () => {
  return (
    <div>
      <h1>Hi there</h1>
      <div style={boxStyle}>I am a box</div>
    </div>
  );
};
// JSX = JavaScript XML
ReactDOM.render(<App />, document.querySelector("#app"));
```



If you want multiple elements to return the same we have to use a wrapper element, in conclusion react expect one single element that needs to be returned from the function. If you're rendering a custom component by yourself you should always make sure that enclosing it within the angular bracket mentions it as a custom derived component.

Class base component:



Hi there



If you're creating a class component you need to create a constructor and extend the built in component class you need to class super method and render method and return elements.

NPX:

Before creating react-app check your command version weather it is 5+ or not

```
HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop/day1
$ npx create-react-app my-app
```

```
We suggest that you begin by typing:

cd my-app
npm start

Happy hacking!

HARI MANGA@LAPTOP-D8S6GDS1 MINGW64 ~/Desktop/day1
$ cd my-app
```

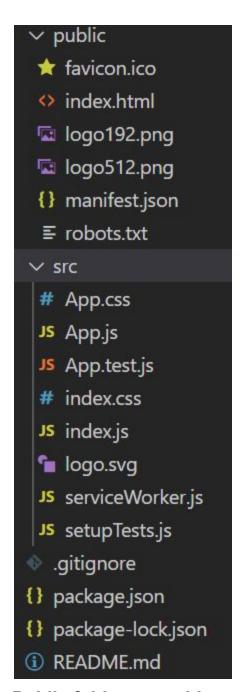
Npm start

```
Compiled successfully!

You can now view my-app in the browser.

Local: http://localhost:3000
On Your Network: http://192.168.0.3:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```



Public folder something where your static folder that is the file that will not change irrespective of any code in react.

