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Chap 01 - Inception

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→ React is a library.

→ Main difference b/w framework & library:

Library takes minimum effort to put it into our code.

H.W

1) What is Emmet?

→ designed to speedup the process of writing and editing code by providing a set of shortcuts that can be quickly expandable to full code blocks.

Let my index.html looks like ⚡

<head>

<title>Namaste All </title>

</head>

<body>

<div id="root">

<h1>Namaste Everyone! </h1>

</div>

</body>

To do the above code in javascript: ↓

<body>

<div id = "root"> </div>

</body>

<script>

const heading = document.createElement("h1");

heading.innerHTML = "Namaste Javascript";

const root = document.getElementById("root");

root.appendChild(heading);

</script>

To do the above code in ReactJS ↓

H.W:- What is CDN?

Content Delivery Network (CDN) is a n/w of servers that delivers content to users. Both React and ReactDOM are available over a CDN.

H.W - What is Cross Origin attribute?

[CORS (Cross Origin Resource Sharing) is an HTTP-header based mechanism that allows a server to indicate any cross origins (domain, scheme or port) other than it's own from which a browser should permit loading resources.]

Q):- Cross Origin attribute provide support for CORS

If we serve React from a CDN, keep crossorigin attribute set :-

```
<script crossorigin src = "... " > </script>
```

This indicates that the script should be loaded from a different origin.

index.html

```
<body>
```

```
<div id = "root" > </div>
```

```
</body>
```

```
<script crossorigin
```

```
src = "https://... react@18..." >
```

```
</script>
```

```
<script crossorigin
```

```
src = "https://... react-dom@18/..." >
```

```
</script>
```

React Superpowers came from here

} CDN Links

<script>

```
const heading = React.createElement(  
  "h1", { }, "Namaste Everyone");
```

```
const root = ReactDOM.createRoot(  
  document.getElementById("root"));
```

```
root.render(heading);
```

</script>

</body>

Q). What is the { } denotes in above code?

<div id="root">

<h1 id="title">Namaste Everyone </h1>

</div>

This should come inside { }
Whatever I'm passing inside { }, will
goes as tag attributes of h1.

React will overwrite everything inside "root"
and replaces with whatever given inside render

* Do the below HTML code using React.

```
<div id="container">  
  <h1>Heading 1 </h1>  
  <h2>Heading 2 </h2>  
</div>
```

To build a structure like this using React ↓

```
<script crossorigin src="https://react@18..." />  
<script crossorigin src="https://react-dom..." />
```

```
<script>
```

```
const heading = create React.createElement(  
  "h1",
```

```
    { id: "title",
```

```
    },
```

```
    "Heading 1"
```

```
);
```

```
const heading2 = React.createElement(  
  "h2", { id: "title2", }, "Heading 2");
```

```
const container = React.createElement(  
  "div",  
  { id: "container" },  
  [heading, heading2] );
```

```
const root = ReactDOM.createRoot(  
  document.getElementById("root");  
root.render(container);
```

"BUT, JSX makes life more easy."

H.W

Why React is known as 'react'?

→ because it was designed to help developers "react" to changes in the state of an application, by efficiently rendering and updating the UI in response to those changes.

[kitchen sink & defer YT video].