Date: 01 - 07 - 2020

Morning Session : 9 am – 11.00 PM By ~ Sundeep Charan Ramkumar Today

Topics: React Day 3 (state and events)

A guide to "this "in JavaScript

https://www.freecodecamp.org/news/a-guide-to-this-in-javascript-e3b9daef4df1/

Call, Apply, and Bind:

- Use .bind() when you want that function to later be called with a certain context, useful in events.
- Use .call() or .apply() when you want to invoke the function immediately, and modify the context.
- Call/apply call the function immediately, whereas <u>bind returns a function that, when later executed, will have the correct context set for calling the original function.</u>
- This way you can maintain context in async callbacks and events.

https://www.freecodecamp.org/news/how-to-use-the-apply-call-and-bind-methods-in-javascript-80a8e6096a90/

Map Function:

 Keys help React identify which items have changed, are added, or are removed. Keys should be given to the elements inside the array to give the elements a stable identity

This, bind, call and apply() code:

```
constructor(type, color) {
     this.type = type;
 const bungalow = new House("bungalow", "red");
 const greetFunc = sundeep.greet.bind(sundeep);
 greetFunc();
   console.log(`The values passed are ${n1} and ${n2}`);
  job: "developer"
const newSaySomething = saySomething.bind(obja);
 console.log(saySomething.call(objb));
 console.log(saySomething.apply(objb, [1, 3]));
 console.log(newSaySomething(4, 5));
```

State in React:

• It help is holding the "current data" of the Component, like at a particular instant.

- It is immutable (can't change it directly) → It is changed with setState, we will learn in events
- The state value should always be an object
- The state can be communicated via props.

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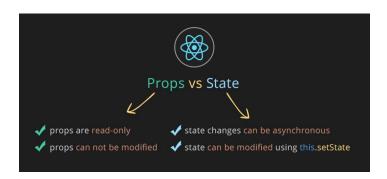
https://medium.com/the-andela-way/understanding-the-fundamentals-of-state-in-react-79c711 be677f

```
import React, { Component } from "react";
                                   New way to add state
import Toggle from "./Toggle";
import "./App.css";
                                   in class based component
class App extends Component {
  name: "sundeep",
   job: "instructor",
       name: "Leanne Graham",
       username: "Bret",
       email: "Sincere@april.biz",
       address: {
        street: "Kulas Light",
        suite: "Apt. 556",
        city: "Gwenborough",
         zipcode: "92998-3874"
       name: "Ervin Howell",
       username: "Antonette",
       email: "Shanna@melissa.tv",
       address: {
         city: "Wisokyburgh",
         zipcode: "90566-7771"
```

https://reactjs.org/docs/state-and-lifecycle.html

https://reactjs.org/docs/lists-and-keys.html

State V/S Props:



https://stackoverflow.com/questions/27991366/what-is-the-difference-between-state-and-props-in-react

Prop Drilling:

- Prop drilling is a technique of passing data at multiple levels
- prop drilling is used to pass data to lower components at multiple levels in the hierarchy

Events in React:

- Just like HTML, React can perform actions based on user events.
- React has the same events as HTML: click, change, mouseover etc.
- React events are written in camelCase syntax:
- onClick instead of click.
- React event handlers are written inside curly braces:
- onClick={shoot} instead of onClick="shoot()".
- A good practice is to put the event handler as a method in the component class: →
 Event Handling

What is a Synthetic Event?

- SyntheticEvent object will be reused and all properties will be nullified after the event callback has been invoked.
- This is for performance reasons.

https://www.w3schools.com/react/react_events.asp

