Difference between Props & state?

for Parent-du't communication, simply pau

Use state to store the data your current page needs in your controller-view.

Use props to to pass data & event handless down to your child components.

There lists should help guide you make vorking the date in your components.

fro Ps

- · are mulable
 - lets React de fait reference ches · which
- to par data down toom viewcontro Ver
 - top level component e Your

. have better performance . use this to pour data to world child components

state should be managed in your view-controller of your top kind component

. is mutable

has worse performance

should be accessed from child components.

pass it down with propos instead.

· What is usestake () API

The use State U is a a Hook that allows you to how state variables in functional componers to bostally use state is the ability to encapsulate local state in a functional component.

· How mop, filter, reduce work?

- How to use map U Method.

Luppose you have an array arrane when you've stored some numbers, and you'd like to perform prome eal blations on each of them. But you also don't want to mest with the original array.

This is where map U comes into picture The mop method will nelp you do this

Jet om One = [32, 45, 63, 36, 24, 11];

maply takes the maximum of three arguments which one value / element, Index, and ansaly.

orrone map (value/element, index, orray)

Lets say you want to multiply each element by 5 while not changing the original array.

Herris the code to do that:

let om One = [32, 45, 63, 36, 24 11]

Const mult fire = (nvm) > {

return hum * 5;

det orr Two = orr One. map (multifine)
console. Log (orr Two)

And here's the output: [160, 215, 325, 180, 120, 55];

So what's going on here? well, I have on orrone orray with 6 elements in it. Alext, 5 initialized on arrow function mult five with 'num' as an organizent. This returns the product of num and 5, where the 'num' worriable is fed the data by the map () method.

fondion (num)

return nom * 5;

3

How to use filter U) method.

The name kind of gives it away, doesn't it have a this method to filter the array to based an conditions you provide. The based an conditions you provide. The based an conditions oreales a new array filter U method also creates a new array.

Let's take a Example! suppose you have on orray or Name and that array stores a bunch of numbers. Alow, you would like to see what humbers can be divided by to see what humbers can be divided by them

Here's the code to do that:

let om Num = [15, 39, 20, 32, 30, 43, 22] function div By Five (num) [refurn num 4, 3 = 0

Let om New Num 2 om. Num. filter (div By Five) Console-log (om New Num)

And here the output.

L15, 39, 30, 45];

arr Nom with 7 elements in it. Next, I initialized a function divby five with 'num' as an organized. It returns frue or felse for each time a new num is passed for the companision, where the 'num' variable is fed the data by the Alter O method.

- How to use Reduce () method:

Let's say you are asked to find the sum of all elements of on array. Alow, you could use a for loop or the for Each of method, but reduce is built for this kind of took.

The reduced method reduces on array to a single value by performing the desired operation on the elements collectively.

Let's take the above example and use reduce on it:

let am Num z [15, 39, 20, 32, 30, 45, 22] function sum of Ele (num, ind) t return su mumt ind;

let orr Num 2 2 orr Num. reduce (sum of Ele)
console. Loy (orr Num 2);

Here's the output

filter. 1) methods - but what's important and understand is how the reduce method works under the hood.

There's not a definite syntex of the xd. method. Let's see the simplest one and the will give you the gist of all the many you can use reduce U.

Here's some example, syntax for reduce

(Ca 1, az) \Rightarrow 1 seturn a1+az

3)