**React JS**

props : props is a type of variable which generally use to pass the value from one component to another component. it is use to share the data between one component to another components. props can’t changes(immutable property).

Relationship between many tags

<div>

<h1>This is heading tag</h1>

<p>This is a para tag</p>

</div>

1. Parent to child relationship: h1 and p are children of div tag.
2. Child to parent -🡪 for h1 div is parent and for p div is parent
3. Sibling : h1 and p are sibling tags.

Component relationship

1. **Parent to child** : with help of props we can pass the value from parent to child.
2. Child to parent : with help of props with callback function we can pass the value from child to parent.
3. Sibling : child1 need to pass the value with help pros with callback and parent pass the value to child2 using props.

npx create-react-app react-component-communication

cd react-component-communication

open the project in VS code

npm start

**App 🡪Root component**

**Parent -🡪 Parent component**

**Child1 Child2 -🡪 Children**

**React styling**

1. Inline CSS

normal CSS in html page

<tagName style=”property:value;property:value”></tagName>

JSX inline CSS

<tagName style={{“propertyName”:”value”,”propetyName”:”value”}}>

<tagName>

In CSS

color:red background-color:yellow

in JSX

color:red backgroundColor:yellow

Users --🡪 Parent component (takes names and add in array)

arrayNames with static or dynamic value

we need to pass these value to DisplayUsers using props. If relationship between Users and DisplayUsers are parent and child relationship.

Props concept to pass the value parent to child.

DisplayUsers ---🡪 Display users

npx create-react-app react-props-users

cd react-props-users

open the project in VS code

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App

Parent num as state variable with value

Props As 100

Child1 Child2 Child3

Child4 Child5 Child6

Child7 Child8 Child9

Child10

**React Context API :** Context API support data sharing across all component without having to pass the props manually till nth level(props drilling). But all those must be under one tree structure.

**createContext() :** this hook help us to create the context reference.

once we create the reference. This reference with child tag as **Provider.** Need to wrap for parent component. this provider tag provide attribute as **value.** Using this value attribute we can pass any type of value or functions.

Then any child component which come under that tree structure using

useContext() hook. It can access those values from providers.

npx create-react-app create-context-api-demo

cd create-context-api-demo

open the project in vs code

npm start

npx create-react-app create-context-api-user-operation