Component Communication

In React JS component is use to control the view or part of view.

Every component work independently.

Using function style or class style or arrow style we can create the component.

Component help use to create user defined tags which return DOM using JSX.

While big application we need to create more than one component base upon their functionality.

App

Parent state and props

Child1 Child2

State and props state and props

Child3

State and props

State is use to describe the component behaviour

Props is use share the data between one component to another.

<div>

<p></p>

<span></span>

</div>

Div is parent and p and span are child of div tags.

P and span are sibling relationship.

<Parent> it contains state variable those state variable we can access within this component jsx. State is local to that component.

<Child1></Child1>

<Child2></Child2>

</Parent>

Share the data between component

1. Parent to child -🡪 using props we can pass the value from parent to child
2. Child to parent 🡪 using props with callback concept we can share the data from child to parent.
3. Child1 to Child2 or Child2 to child1 🡪Child1 pass the value to parent using props with callback concept and parent pass the value to Child2 using props.

create-react-app component-communication

create-react-app product-component-communication

App

State variable in parent

Parent

Props props

Child1 Child2

Child3 Child4 Child5 Child6

Child7 Child8 Child9

Child10

In child4 we want to access parent component value.

Parent pass to child1, child1 pass to child3 and child3 pass to child4

React provided Context API concept.

Context API provides a way to pass the data through component tree or hierarchy without having to pass down the value manually using props.

In Context API we don’t need to keep track about level tree or hierarchy.

According to context API provided provide the data of any type and consumer can consume the data doesn’t matter their level.

API

create-react-app context-api-demo