Component communication:

If we declare any state variable inside a function or class components. Those variable are local to that components. We can access those variable within that component or that component jsx.

1. Parent to child relationship : using props we can pass the value from parent to child.
2. Child to parent relationship : using props with callback function we can pass the value from child1 or child 2 parent component
3. Sibling relationship : Child1 pass the value using props with callback function to parent and parent with help of props they can pass the value to child2 or visa – vera.

<Parent> component

admin ----→admin@gmail.com →state is local to Parent component

Child1   Child2

user1   →steven@gmail.com   user2→raj@gmail.com

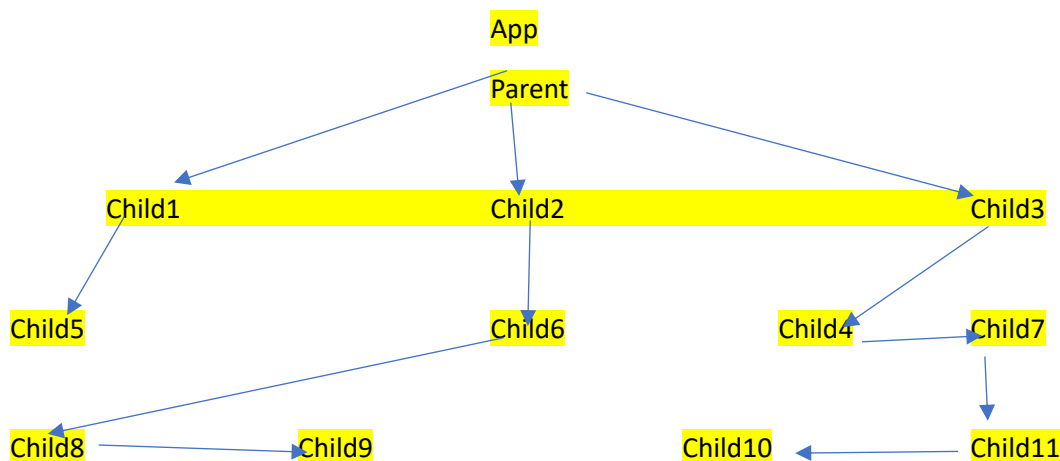local state variable   local state variable.

create-react-app component-communication

user-component --→ Add the user

display-user-component -→Display the user

n=10;   state variable

props drilling : parent need to pass to child1, child1 to child5, child5 to child8 then child9

Context api : The react context api is a powerful tool or features in react JS. Which allow us to manage and share the state variable across component tree structure without having to manually pass props down through every level.

The context api is use to share the state variable or data globally in React application. It allow you to avoid " prop drilling "(passing props down through multiple layer of component manually base upon application requirement).

Context api contain few steps.

1. We need to create context object or reference with help of createContext function.
2. Context.Provider : A component that makes the context value available to its child components hierarchy in any level.
3. Using useContext() hook it allow to access those context value from provider.

create-react-app context-api

Redux