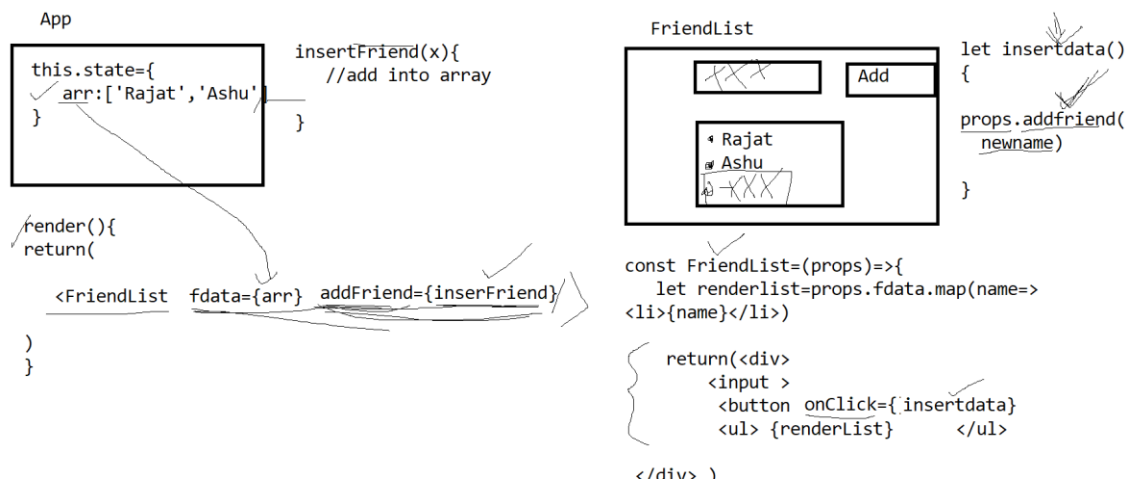


## Using props and state



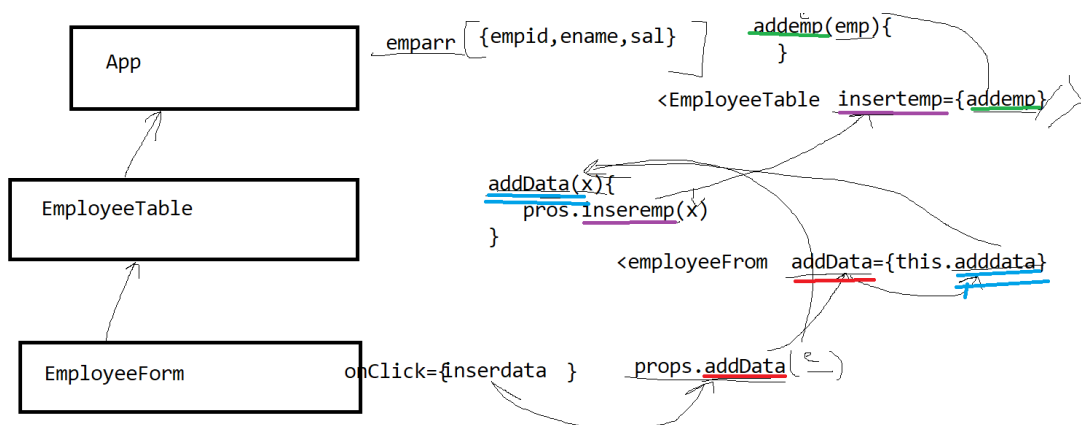
## Differences between props and state

SN	Props	State
1.	Props are read-only.	State changes can be asynchronous, can be done by using setter method
2.	Props are immutable.	State is mutable, used only inside the object
3.	Props allow you to pass data from one component to other components as an argument, the value can be a integer, a string or a object	State holds information about the components data, which is used internally and every change in the state will re render the component
4.	Props can be accessed by the child component.	State cannot be accessed by child components.
5.	Props are used to communicate between components.	States can be used for rendering dynamic changes within the component.
6.	Stateless component can have Props. In new version to use state in functionalcomponent there is hook useState().	Stateless components cannot have State.

7.	Props make components reusable.	State cannot make components reusable.
8.	Props are external and controlled by whatever renders the component.	The State is internal and controlled by the React Component itself.

How to use state in class and functional component

Class component	Functional component
<pre> constructor(props){   super(props);   this.state={     id:"",     name:"",     arr:[]   } } </pre>	<pre> Const f1=(props)=&gt;{   let [id,setid]=useState(10);   let [name,setname]=useState("Rajan");   let [arr,setarr]=useState([]) } </pre> <p>useState is a hook which returns 2 values one is variable and setter function of the variable, it accepts initial value of the variable a parameter</p>
<p>To change the state</p> <pre> this.setState({...this.state,id:this.state.id+1},()=&gt;{   console.log(this.state) }) </pre>	<pre> //to change the value of id setid(id+100) ///id=110 setName("Revati") setarr([...arr,"Rajan"]) </pre>



To install bootstrap

To install bootstrap

`npm install react-bootstrap@next bootstrap@4.6 --save`

add following line in App.js

```
import 'bootstrap/dist/css/bootstrap.min.css';
```