**React**

**Day 23rd**

**Props**

In react JS props and state these two are the integral part. Passing props to a component along with some data to a child component.

Data…

Data…

Props

Parent

Child

Component2

Component1

Props is unidirectional followed by react it’s not bidirectional but you can achieve by using call backs but it is not declarative it is imperative way because react follows unidirectional way.

State is for storing data and props is for sending the data. Props means object and it is used to transfer data from parent component to child component. Although we can make it bidirectional but it is not suggested. It is immutable in nature means child component can’t modify the data.

The difference between props and state is state is mutable in nature and props are note mutable in nature.

**Props**

React is a component base d library that divides the UI into little reusable pieces. In some cases, those components need to communicate (send data to each other) and the way to pass data between components is by using props.

Props is a special keyword in react, which stands for properties and is being used for passing data from one component to another.

But the important part here is that data with props are being passed in a uni-directional flow. (one way from parent to child)

Furthermore, props data is read only, which means that data coming from the parent should not be changed by child components.

**Difference between props and state**

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| **Props** | **States** |
| Props can’t be modified | States can be modified using this, setState() |
| Props can be used in class and function components | States can be used only in class components |
| Props are read only | State changes can be asynchronous |
| Props are passed outside a component | States are passed inside a component |

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|  | **Props** | **State** |
| Uses | It passes data from one component to another component | Holds information about the component |
| Readability | Read only | Changeable |
| Mutability | Immutable | Are mutable |
| Stateless component | Can have props | Can not have state |
| Child component | Child component can access | Child component can’t access |
| Set initial value for child | Yes | Yes |
| Parent can change value | Yes | No |