**React**

**Day 26th**

**Props types**

It is a mechanism that ensures that past value is the correct data type or not to validate data type or not.

PropTypes exports a range of validators that can be used to make sure the data you receive is valid. In this example, we are using PropTypes.string. When an invalid value is provided for a prop, a warning will be shown in the JS console. For performance reasons, propTypes is only checked in development mode.

**How to use it??**

PropTypes are a good first line defense when it comes to debugging your apps. But before getting into detail about PropTypes, we have to understand the concept of props.

Props are the read-only properties that are shared between components to give the unidirectional flow of react a dynamic touch. They are mainly shared from the parent component to the child component but the reverse is also possible (Though not recommended)

**What are PropTypes??**

PropTypes are simply a mechanism that ensures the passed value is of the correct datatype. This makes sure that we don’t receive an error at the very end of our app by the console which might not be easy to deal with.

We can use PropTypes to validate any data we are receiving from props. But before using it we will have to import it as always in our app.

**Types**

PropTypes.any

PropTypes.string

PropTypes.number

PropTypes.object

PropTypes.array

PropTypes.func

PropTypes.bool

PropTypes.symbol

PropTypes.node

PropTypes.element.isRequired

PropTypes.string

PropTypes.oneOfType([PropTypes.string, PropTypes.number, PropTypes.bool])

PropTypes.oneOf([“Shanu” , “Kumar”, true])

PropTypes.arrayOf(PropTypes.oneOfType([PropTypes.string, PropTypes.bool]))

PropTypes.shape({

Id:PropTypes.number,

Name:PropTypes.string,

Salary:PropTypes.number,

isHire: PropTypes.bool

})

We have isRequired by which we can make any thing required means the elements or the things needs to be there (to make mandatory).