Tuesday, February 8, 2022 9:43 AM

React -Redux
Promises , aynch, await

Redux = independent node library
Which will be used with React !!!!

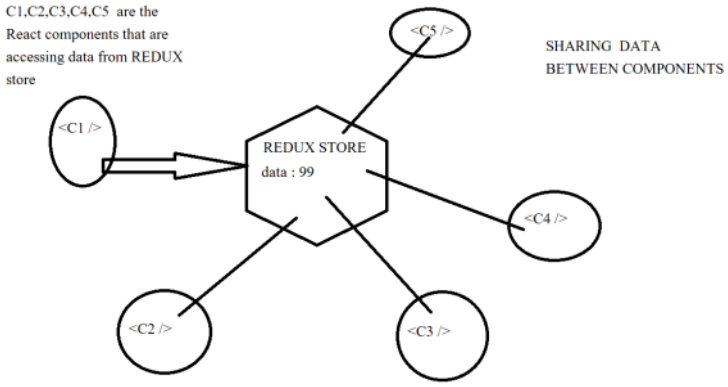
We are planning to integrate React + Redux

Why to use redux ?

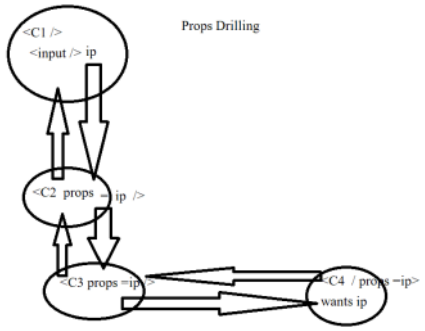
REDUX is a library that can create a STORE / STORAGE

STORE of what ? DATA ---ANY type of data

We will keep this store on the client side (BROWSER)



This is solving the problem of PROPS drilling



Cd to my-app (your project)
```
npm install react-redux  --save
```

```
Redux  ---  it is kind of Observable design pattern
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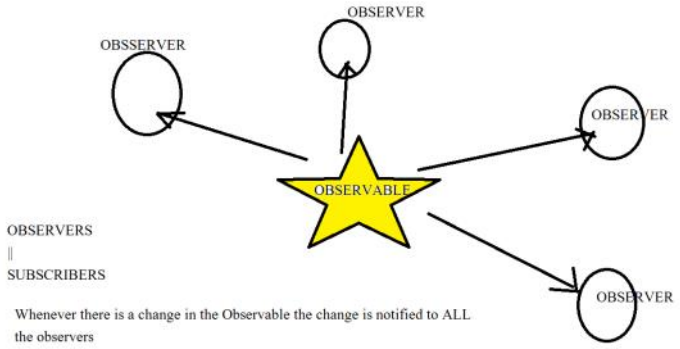

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1. We may want to **see** the CURRENT STATE of the shared DATA in REDUX STORE
2. We may want to **change** the CURRENT STATE of the shared DATA in REDUX STORE

   The REDUX Observable is defined as a REDUCER function !!

   REDUCER function tells ?
    What state is stored ? **State parameter**
    What operations can be done on the state by the Observers ? **Action parameter**

   Reducer function returns the CURRENT STATE (after applying action , if any)

3. Once the reducer is written , we can pass it to the createStore(reducer) that will actually create a storage as per the reducer !!
4. The job of **dispatch** is to change the state !! What do we want to send ? WE want to send the action on the reducer .

PROMISE
    A promise might resolve or reject.
    If it resolves then() is called
    If it is rejected catch() is called

    The promise callbacks are added to a separate **JOB queue**
    Other callbacks are added to **callback queue**
    Normal function calls are added to **stack frame**---execution happens here
        When the stack frame is empty , then the promise callbacks are executed with priority
        Finally the callback queue callbacks are executed