React Day 2

Thursday, February 3, 2022

9:48 AM

React -- component based architecture for CLIENT SIDE based on JavaScript

One application ====== made up of many components integrated together

REACT container ---

Life cycle management of component

- 1. Create objects of the component
- 2. Dependency Injection
- 3. Invoke call back methods
- 4. Destroy the component

React Components --- Are of two types

- 1. Functional React Components
- 2. Class React Components

Spring Boot is server side---- we would get component object by getBean or Autowired , or we give callback methods and the METHODS are called --- the services are executed

React is client side -----> **RENDER THE HTML**Primary task of a REACT Component is to RENDER HTML (part)

REACT uses a syntax ----- JSX --- Java Script eXtension

We write HTML not as a String, We write html as JSX data type

React has an inbuilt module Babel === translator

JSX ------Babel--->----HTML

E1 - App component as a function App component as a class

Using a Component === we use it as a CUSTOM TAG <APP></APP>

export / import gives us MODULARITY !!!! Older way of using export/import was require() syntax , module.export

Whenever we write a component ---We must Export the component? Why? So that it can be Imported and made available to another JS file

Export	Import	
export default App	import App from './APP'	
export default function App() { return }	import App from './APP'	
How export default in one file === ONLY one		
For multiple exports we can use simple	import {Little,Big,PI} from './APP' OR	
export {Little, Big, PI}		
OR export function Little() { return JSX }	import * as somehandle from './APP' Use it as <somehandle.little></somehandle.little>	
export const PI = 3.141592		
Can we have default export and normal exports in one file = YES But one variable can be exported only once	import App, {Little } from './App'	

JSX =

- 1. JSX Expression MUST have one parent element !!!!
- 2. To see values of variables or expressions $\mbox{ use \{ \ \} }$ in JSX
- 3. We can write variable name , property name , function , method call, expression --whatever evaluates to ONE single value

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Ex1 -- write a react component that prints the table of 2 upto 100

2*1 =2 2*2=4

2*100=200

TAGS will have attributes !!!!

TAG OPENING	TAG BODY	TAG closing
<tag <mark="">id='id1' <mark>value</mark>='fff' ></tag>		

CAN we add attributes to the CUSTOM TAGS created using React Components? YES

Attributes of REACT components are called as PROPS

- 1. Class components have an inbuilt property that can be accessed as this.props
- 2. Function components get a parameter that holds the props values

//CALLER X(3) actual parameter

function X(a) formal parameter name $\{$

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