

Day5: React component have

15 December 2022 05:05 PM

React component have

1)view (UI)inside a component using js/JSX :

So in react component always have a view
View is compulsory
Component cannot be created without view

2)React Component will have style inside in it :

Style basically represents the CSS
you can write the CSS using the JSX or by using CSS
Style may or may not be available

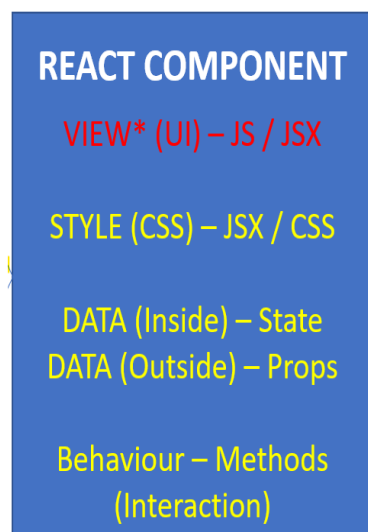
3) React component will have some Data :

This data can be created inside the component - we termed as state
Component can take the data from outside - so that data is termed as props

4)Component will have some Behaviour:

component

Behaviour basically created using methods inside the
Methods will help you to do interactions
so when you want to make your component interactive
then creates methods inside the component



So in simple terms, Whenever we talk about the react components these are the few thing which will have in react components, View is compulsory and style , Data and Behaviour is depends on your requirements

React Says: Learn once and write anywhere

Question: where react is used ?/Give me some examples where react is used?/Which application using react?

Which tool you use to write the application?

Ans-> Vs code

which technology used to create vs code(UI part) ?

Ans->ReactJS.

it is a windows application - if you check the any microsoft ui which you have like office 365 products which is created using ReactJs
e.g. power point, word, outlook, skype for business all of them use react (Web version as well as windows versions)
Surprised!!!!

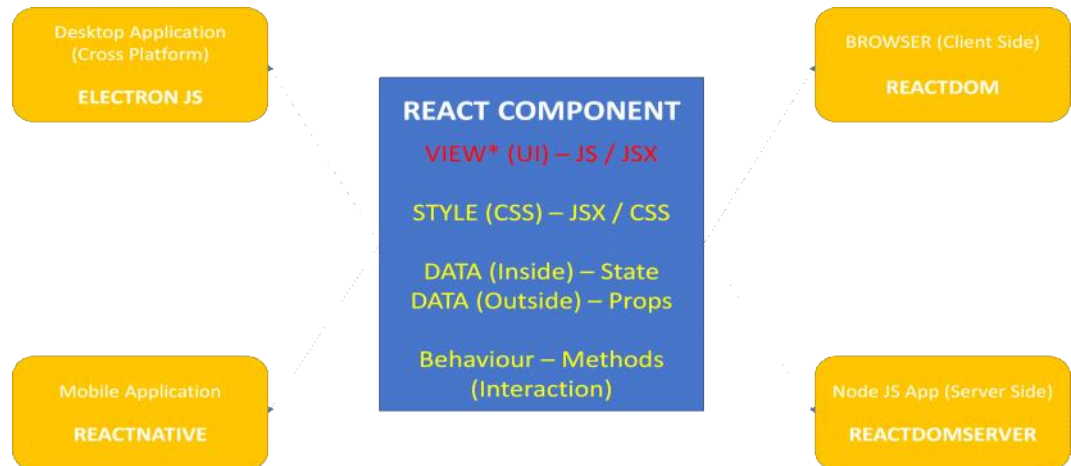
When you working in react :

React components are rendered on client side or browser using library called REACTDOM

if you want to render your react component on server side(NODEJS app) then use REACTDOMSERVER

React component can created and rendered on mobile phone(Mobile Application) using library REACTNATIVE

How we will render our react components in windows environment as windows application by using electron js
e.g. vs code is written in electron containing react comp ,Git hub for windows



This is the reason React Says : Learn once and write anywhere

UI Composition (Composite UI Pattern)

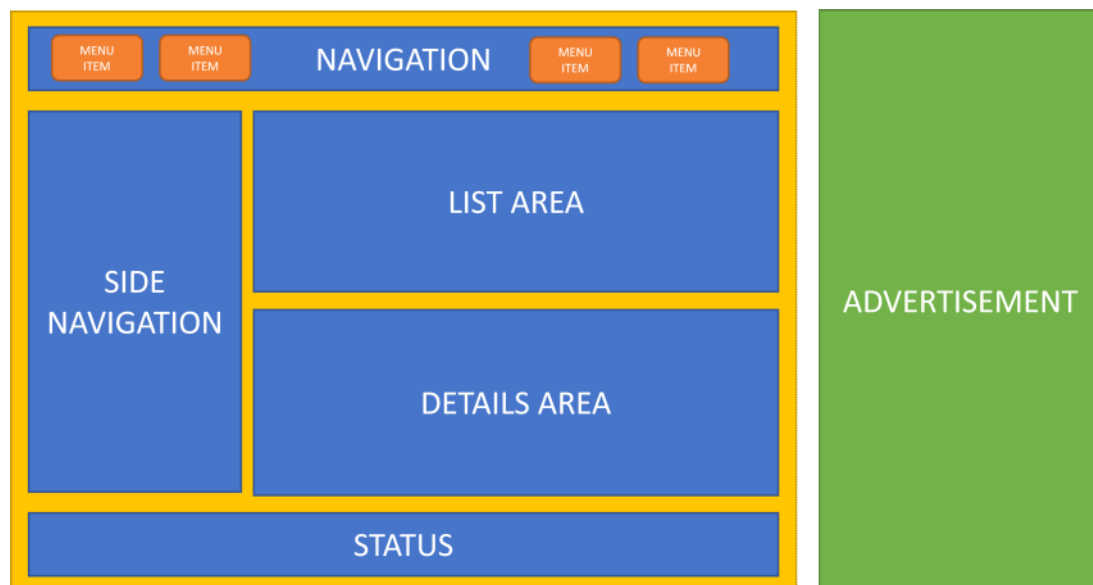
How you will create complex ui in react?

Ans -> using UI compositions

what is UI compositions?

Ans-> UI composition is pattern or composite UI pattern which is basically used to create more complex UI in react

Whenever you see a window/ screen, you have to think about window as component ,Never think about window as page



when we combine these components together we term it as Composite ui or process is called ui composition

Extensions of Visual Studio Code

- AutoFileName
- vscode-icons
- JavaScript (ES6) code snippets
- CSS Formatter
- IntelliSense for CSS class names in HTML
- Reactjs code snippets

After Extensions are installed

- File Menu -> Preferences -> File Icon Theme -> Select VScode Icons

Browser Extensions Installation

- Install Google Chrome Extensions
 - React Developer Tools
 - <https://chrome.google.com/webstore/detail/react-developer-tools/fmkadmapgofadoplibjfkapdkoienihi>
 - Redux DevTools
 - <https://chrome.google.com/webstore/detail/redux-devtools/imhkpmbekcpmknkioeibfkpmmfbljd>

JSX

JSX

JavaScript XML (JSX) – Extension to the JavaScript language syntax.

Write XML-like code for elements and components.

JSX tags have a tag name, attributes, and children.

JSX is not a necessity to write React applications.

JSX makes your react code simpler and elegant.

React Props

Props are arguments passed into React components.

Props are passed to components via HTML attributes.

Note: React Props are read-only! You will get an error if you try to change their value.

comp communication always from parent to child