Assignment no :- 09

Topics covered :- ReactJs featurn
- React attribute JSX
- JSX comment Styling
- Apprication.

Date of performance :- 14-10-22

Evaluation Criteria	Marks (out of 3)	Date	Signature of Instructor
Punctuality	03	20/10/2022	
Problem solving technique	03		
Attainment level (out of 3)	03		

Assigment No !- 04

Q. I) what is ReactJS, explain the feature of it along with advantage of ReactJS

=) React is Javasript library for building for & user interfac
· React is used to build single paye applicati..
React allow us to create reusable UI componet

feature

JSX !- JSX Stand for Javaskript XML. Javasript syntax extension. it an XML or HTML like syntax used by React JS. This syntax is procced into Javasript react code.

· componets !- ReactJS is about componets. ReactJS applicatio is made up of multiple componets, and each componet has its logic & control.

· Virtual Dom ! A virtual Dom object is a representation of the original Dom object. it work like a one-way data binding

· simplicity :- ReactJS use JSX file which make the application simple & code as well as understand.

· Performany !- ReactJS is know to be grete performe. this feature is make much better than othr framework out there today

· Advantage of ReactJS

① Easy to Learn !-

Reactjs is much is easier to learn & use. it comes with good supply of documentation, tutorial & resource.

② Creating dynamic web App.!

! to create a dynamic web application with HTML strings was tricky becau it requi a complex coding. but ReactJS solve that issue and make it easi it provide less coding & give more fun

③ Performance Enchament

ReactJS improve Performance due to virtual Dom. the Dom is cross-platform & programming API which deal with HTML, XML or XTHL.

④. Score of testing

ReactJS application are extremely easy to test.

⑤. Benfit of Having JS library

· ReactJS is choosing by most of the web application it becau it it offering a well rich Javascript libary.

· the Javascript libary provide more flexibility to the web deveper to choose the way the want.

Q.2) What JSX. enlist the use of it, explain the attribute of JSX?

- React JSX for Javascript XML
- JSX allow to write HTML in React
- JSX make easier to write and add HTML in React
- The Syntax is used to preprocessor to transform HTML-like Syntax into standard Java object that a Javascript engine will parse

*** Use**

- JSX is allow us to write HTML element in Javascript and place them in the DOM without any createElement() and Or appendchild() method.
- It faster than other Javascript
- It makes easy to create template
- It is type-safe so most of the error can be found.

: JSX Attribute

JSX Attribute with HTML element same as regular HTML JSX uses camelcase naming convention for attributes rather than standard naming convention HTML such as class in HTML className in JSX because the class is the reserved JSX Because the class in the reserved keyword in Javascript.

So

- we can also use our own custome attribut in JSX.
- we need to use data-prefix)

Ex.

```
. import React from react';
  class App extends Component {
      render ()
          <div>
            <h1> Hello </h1>
          </div>
      );
  }
  export default App
```

Q.3) Explain JSX comment & styling?

JSX comment

JSX allows us to use comment that begin with /* and end with */ and wrapping them in curly braces {} just like in the case of JSX expression.

Ex.

```
import React, {Component} from React;
  Class APP extends Component {
          render()
            return (
                <div>
                  <h1 class='Hello'> Hello </h1>
                  {/* this is comment */}
              </div>
            );
        }
      }
    export default APP;
```

JSX Styling

React always recommends to use inline style styl. To set inline style, you need to use camlecase syntax. React automaticaly allow appending px after the number value speify element

Ex

```
import React, {componet} from 'React';
    Class App extend componet {
        render() {
            var mystyle = {
                fontsize: 80,
                fontfamily: 'courier',
                color: 'Red'

            }
           return(
           <div>
          <h1 style = {mystyle}> Hello</h1>
           </div>
        );
      }
   }
    export default App;
```

Q.4 What are tu simple application of JSX?

⇒ Step① install create-react-app

To install tool we have use tu following comm in tu command ln

npm install -g create-react app

Step② Create tu application

Now, is bup r can to create tu first applicatn using create-react-app tool. run this command to name of or applicat,

npx -create- react-app - react app

Step③ Start application

Cd-reactapp
npm start

Step④ Create API Call

open app win yor favourite code editor inside my : src folr main compont. App.js. Let's open it and take a look whats inside. we can the code whin ui,

http://localhost:3000

```
import React from 'react'
import logo from './logo".svg'
import './APP.css'
        function APP() {
              <div className="APP">
               <header className="APP-header">
               <img src={logo} className="APP-logo" />
              <p>
                Edit <code> src/APP.~~head~~js r>
          <a
              className="APP-link"
              href="https://react.js.org"
              target="_blank"
              rel="noopener noreferrer"
          >
          Learn React
      </a>
    </header>
   </div>
  );
 ;
} export default app;
```

let's start by modifying the component to change it into a class componets, which will be much more convenient in our 'case. . we want our APP.JS Componet look in the following way.

```
import React, { Componet } from 'React';
   class App extends componet {
        render () {
        return (
            <p> Hello world </p>
    );
   }
 }
export default App;
```

20/10/2022
03