Assignment no :- 09

Topics covered :- ReactJs feature
- React attriblete JSX
- JSX comment Styliing
- Application.

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

=) React is Javascript library for building for & user interface
React is used to build single page application.
React allow us to create reusable UI component

feature

JSX :- JSX stand for Javascript xml. Javascript syntax extension. it an XML or HTML like syntax used by ReactJS. This syntax is proccessed into Javascript react code.

· Componets :- ReactJS is about componets. ReactJS application is made up of multiple componets, and each component 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 uses JSX file which make the application simple & code as well as understand.

· Performance :- ReactJS is know to be a great performer. this feature is make much better than other framework out there today

- Advantage of ReactJS

① Easy to Learn :-

ReactJS is much easier to learn & work. It comes with good supply of documentation, tutorial & resource.

② Creating dynamic web App.:

: to create a dynamic web application is with HTML was tricky because it required a complex coding. But ReactJS solve that issue and make it easier it provide less coding & give more fun.

③ Performance Enchament

ReactJS improve performance due to virtual DOM. It DOM is cross-platform & programming API which deal with HTML, XML or XHTML.

④ Scope of testing

ReactJS application is extremely easy to test.

⑤ Benefit of Having JS library

- ReactJS is choosing by most of the web application. It means it offers a rich JavaScript library.
- The JavaScript library provide more flexibility to the web developer to choose the way they 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 preprocess to transform HTML-like Syntax into Standard JavaScript 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 use 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 is the reserved keyword in JavaScript.
So

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

Ex.

```
. import React from react';
Class App extends Componet {
    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>
        {/* Within is comment */}
      </div>
    );
  }
}
export default APP;
```

JSX Styling

React always recommends to use inline style style. TO set inline style, you need to use camelcase syntax. React automatically allow to appending px after the number value specific element

Ex

```
import React, { Component } from 'React';
    Class App extend Component {
        render() {
            var myStyle = {
            fontSize: 80,
            fontFamily : 'Arial',
            color : Red
            }
        return(
        <div>
        <h1 Style = {myStyle}> Hello </h1>
        </div>
    );
    }
}
export default App;
```

Q.4 What are the simple application of JSX?

⇒ Step① install create-react-app

To install tool we have use the following command in the command line

npm install -g create-react app

Step② Create the application

Now, we can create the first application with create-react-app tool. run this command to name of our application,

npx -create-react-app - react app

Step③ Start application

Cd-reactapp
npm start

Step④ Create API Call

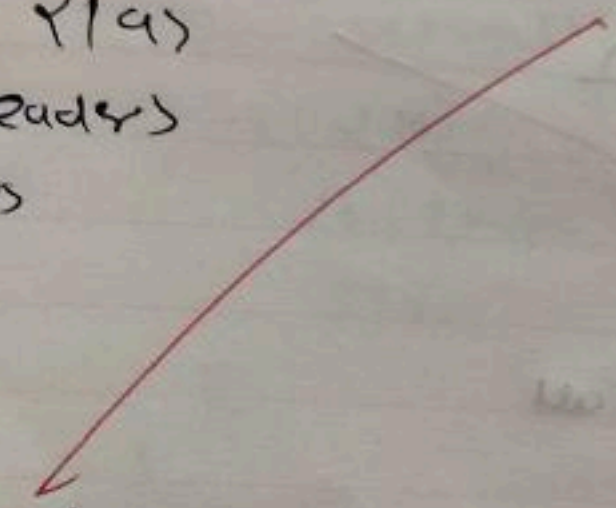
open app with your favourite code editor inside the src folder main component App.js. let's open it and take a look what's inside. we can the code which is,

http://localhost:3000

```
import React from 'react'
import logo from './logo.svg'
import './App.css'

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <img src={logo} alt="logo" />
      </p>
        Edit <code>src/App.js</code>
      </p>
      <a
        className="App-link"
        href="https://reactjs.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 components, which will be much more convenient in our 'Cm.. we want our APP.JS Component look in the following way.

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

20/10/2022
03