Paga No. Date :

IP-ASSIGNMENT-1011

Ain: WAP to implement React JS Router and Animation

Theory: React Router is a standard library for routing views of various components in a react application allows changing the VRL and keeps the VI in sync with URI React Router can be installed via "nom" in your react application To install the result nouter use common "norm install "react router-dom". After winstalling result-router dum add its component to your react application. The main components of React Router DOM are.

- store all of the other components
 - 2) Route Route is the conditionally shown component that renders some VI when path matches current URL.
- 3) Link link component is used to create links to different rounds and implement navigation around the application.
 - 4) Switch: Switch is used to render only the first route that matches the location viather than rendering all matching noute.
 - 5) Animations in React A collection of Animation that can be used with any inline style library that can support using object to define keyframe animation.
 - realing object basic css transition and animation.

 sommand is non useful react addon-css-transition group

 React transition group components divide the lifecycle

 of any other child components into specific etages

for a time span known as timeout.

Stages of transition: entering entered eniting enited.

Stages of CSS Transition: appear, enter, enit. · Stages of transition group: mounting and unmounting conducion. The concept of neart nouter and arination was understood and desired output was obtained on soldilion in understand implementation as

IP-ASSIGNMENT-10

Code:

Index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import { BrowserRouter as Router, Route, Link, NavLink } from 'react-router-
dom'
import App from './App';
import About from './about'
import Animation from './animation'
import Counter from './counter'
const routing = (
 <Router>
   <div>
     <h1 >React Routes</h1>
     <l
         <NavLink to="/" className='Link'exact activeStyle={ {color:'red'} }>Ho
me</NavLink>
       <1i>>
         <NavLink to="/about" className='Link' exact activeStyle={ {color:'green</pre>
}}>About</NavLink>
       <1i>>
         <NavLink to="/counter" className='Link' exact activeStyle={{color:'mage</pre>
nta'}}>Counter</NavLink>
       <
         magenta' } >>Animation/NavLink>
      <Route exact path="/" component={App} />
     <Route path="/about" component={About} />
     <Route path="/animation" component={Animation} />
     <Route path="/counter" component={Counter} />
   </div>
  </Router>
```

```
)
ReactDOM.render(routing, document.getElementById('root'));
```

App.js

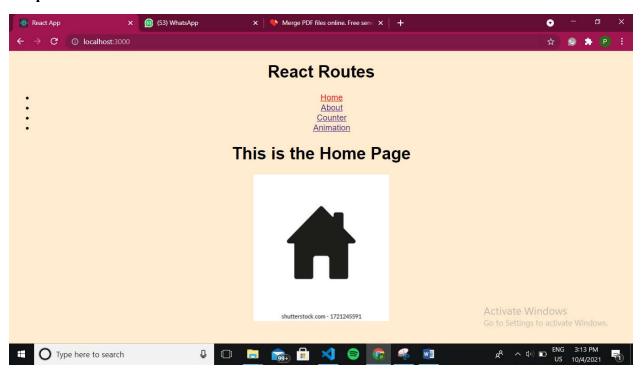
About.js

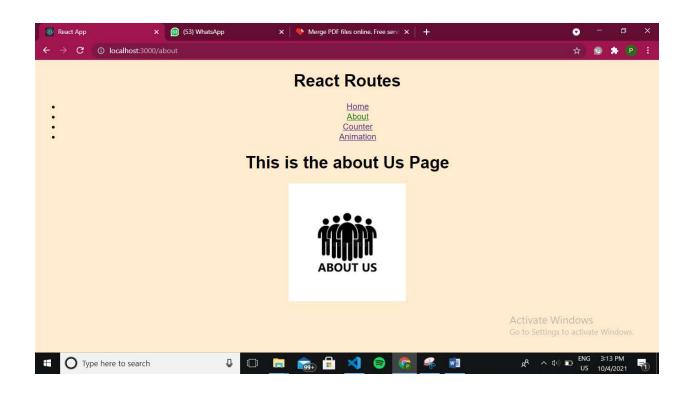
Animation.js

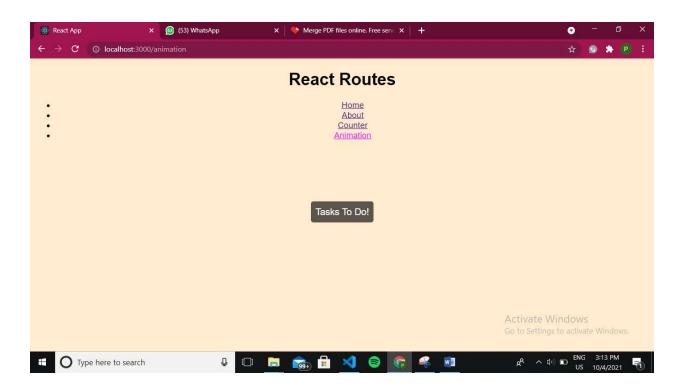
```
import React, { Component } from "react";
import ReactDOM from "react-dom";
import cx from "classnames";
import { CSSTransition } from "react-transition-group";
```

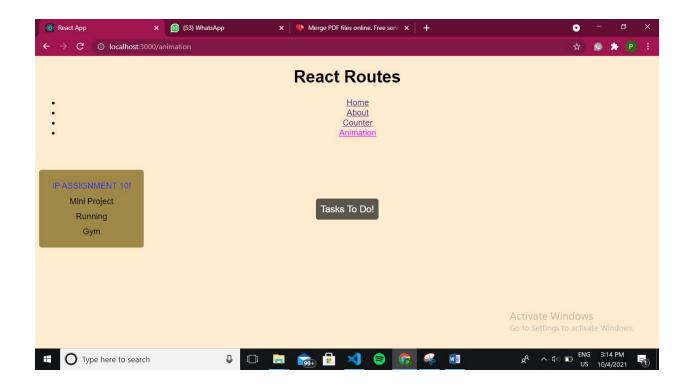
```
import "./styles.css";
class Animation extends Component {
 state = {
   showList: true,
   highlightedHobby: false
 };
 switch = () => {
   this.setState(prevState => ({
     showList: !prevState.showList
   }));
 };
 listSwitch = () => {
   this.setState(state => ({
     highlightedHobby: !state.highlightedHobby
   }));
 };
 render() {
   return (
     <div className="container">
       <button className="display" onClick={this.switch}>
         Tasks To Do!
       </button>
       <CSSTransition
         in={this.state.showList}
         timeout={400}
         classNames="list-transition"
         unmountOnExit
         appear
         onEntered={this.listSwitch}
         onExit={this.listSwitch}
         <div className="list-body">
           <li
               className={cx("list-item", {
                 "list-item--active": this.state.highlightedHobby
               })}
               IP ASSIGNMENT 10!
              Mini Project
```

Output:









Conclusion: Hence, React Routes was successfully implemented.