**PRACTICAL-8**

**Single Page React App**

// In the command line type:

// npx create-react-app react-app3

// Then type npm start in the command line

// Create single page application using react.js which is able to perform following functionality:

// 1. Add title and logo of website.

// 2. Create horizontal or vertical menu using CSS.

// 3. Make registration form having minimum 4-5 different elements and submit value of elements.

// 4. Show working of events: onClick(), onChange() and onSubmit().

App.js

import './App.css';

import Click from './components/Click/Click';

import Form from './components/Form/Form';

import Menu from './components/Menu/Menu';

function App() {

return (

<div className="App">

<Menu />

<div className="main">

<div clasName="parent">

<div className="child">

<Form />

</div>

<div className="child2" >

<Click />

</div>

</div>

</div>

</div>

);

}

export default App;

Components

Menu.js

import React from 'react';

import './Menu.css';

class Menu extends React.Component {

render() {

return (

<ul>

<li><a href="#home"><img className='img'

src="https://d1prjjs37junl3.cloudfront.net/institute/gnu/logo\_white.png" alt="" /></a></li>

<li><a href="#home">SP Practical 8</a></li>

<li><a href="#home">Home</a></li>

<li><a href="#news">News</a></li>

<li><a href="#contact">Contact</a></li>

</ul>

);

}

};

export default Menu;

Menu.css

ul {

list - style - type: none;

margin: 0;

padding: 0;

overflow: hidden;

background - color: rgb(216, 23, 23);

}

li {

float: left;

}

li a {

display: block;

color: white;

text - align: center;

padding: 14px 16px;

text - decoration: none;

}

li a: hover: not(.active) {

background - color: #111;

}

.active {

background - color: #04AA6D;

}

.img {

height: 40px;

}

Form.js

import React from 'react';

import './Form.css'

class Form extends React.Component {

constructor(props) {

super(props);

this.state = { name: '', id: '', org: '', location: '', branch: '' };

this.handleChange = this.handleChange.bind(this);

this.handleSubmit = this.handleSubmit.bind(this);

}

handleChange(event) {

this.setState({ ...this.state, [event.target.name]: event.target.value });

}

handleSubmit(event) {

alert(JSON.stringify(this.state));

event.preventDefault();

}

render() {

const handleShow = () => {

alert("Data Changed.")

}

return (

<div className="main">

<div>

<h1>React Form: 21012021003\_AMIT GOSWAMI</h1>

<form onSubmit={this.handleSubmit} style={{ width: '400px', margin: '0 auto' }}>

<div className='form-control'>

<label>

Name:

</label>

<input name='name' type="text" value={this.state.name}

onChange={this.handleChange} />

</div>

<div className='form-control'>

<label>

Employee Id:

</label>

<input name='id' type="text" value={this.state.id}

onChange={this.handleChange} />

</div>

<div className='form-control'>

<label>

Organization:

</label>

<input name='org' type="text" value={this.state.org}

onChange={this.handleChange} />

</div>

<div className='form-control'>

<label>

Branch:

</label>

<input name='branch' type="text" value={this.state.branch}

onChange={this.handleChange} />

</div>

<div className='form-control'>

<label>

Location:

</label>

<input name='location' type="text" value={this.state.location}

onChange={this.handleChange} />

</div>

<button type='submit' className='submit'>Submit</button>

</form>

<p>On Change Functionality</p>

<button className='btn' onClick={handleShow}>Change</button>

<button className='submit' onClick={this.handleSubmit}>Show</button>

</div>

</div>

);

}

};

export default Form;

Form.css

.form - control {

display: flex;

justify - content: space - between;

margin: 10px;

}

.main {

background - color: rgb(245, 182, 182);

box - shadow: 0 4px 8px 0 rgba(255, 102, 96, 0.2);

width: 70 %;

margin - top: 20px;

margin - left: 150px;

height: 80 %;

text - align: center;

vertical - align: middle;

padding: 10px;

border - radius: 10px;

justify - content: center;

align - items: center;

border: 1px solid black;

}

.submit {

background - color: rgb(255, 243, 80);

color: black;

border - radius: 5px;

width: 100px;

height: 40px;

cursor: pointer;

}

.btn {

background - color: rgb(226, 80, 255);

color: black;

border - radius: 5px;

width: 100px;

height: 40px;

cursor: pointer;

}

Click.js

import React, { Component } from 'react'

import './Click.css'

export class Click extends Component {

constructor(props) {

super(props)

this.state = {

cat1: 0,

cat2: 0,

cat3: 0

}

}

cat1Click = (event) => {

this.state.cat1 = !this.state.cat1

this.state.cat1 ? event.target.style.backgroundColor = "black" : event

.target.style.backgroundColor = "blueviolet"

}

render() {

return (

<div className="userDataForm">

<h3>OnClick</h3>

<form>

<div className="category">

<h5>Cars:</h5>

<button className="items" onClick={this.cat1Click}>BMW</button>

<button className="items" onClick={this.cat1Click}>Mercede</button>

<button className="items" onClick={this.cat1Click}>Lamborg</button>

<button className="items" onClick={this.cat1Click}>Tata</button>

<button className="items" onClick={this.cat1Click}>Tesla</button>

</div>

<div className="category">

<h5>Laptops: </h5>

<button className="items" onClick={this.cat1Click}>Dell</button>

<button className="items" onClick={this.cat1Click}>Acer</button>

<button className="items" onClick={this.cat1Click}>Asus</button>

<button className="items" onClick={this.cat1Click}>HP</button>

<button className="items" onClick={this.cat1Click}>Lenovo</button>

</div>

<div className="category">

<h5>TVs:</h5>

<button className="items" onClick={this.cat1Click}>MI</button>

<button className="items" onClick={this.cat1Click}>LG</button>

<button className="items" onClick={this.cat1Click}>Panasonic</button>

<button className="items" onClick={this.cat1Click}>Sony</button>

<button className="items" onClick={this.cat1Click}>Onida</button>

</div>

</form>

</div>

)

}

}

export default Click;

Click.css

.userDataForm {

box - shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);

width: 50 %;

margin - top: 10px;

margin - left: 150px;

height: 80 %;

text - align: center;

vertical - align: middle;

padding: 10px;

border - radius: 10px;

justify - content: center;

align - items: center;

border: 1px solid black;

}

.category {

text - align: center;

margin: 10px;

}

.items {

margin: 5px;

background - color: blueviolet;

color: white;

border: 0px;

padding: 7px;

}

