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;
```

```css
  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

```jsx
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);
```

```jsx
    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;
}
```