Assignment-9
Topics: Implementing Single-Page Applications with React

1. App.js

```
import on from './on.png';
import off from './off.png';
import './App.css';
import { useState } from 'react';
import Items from './Items';
import Header from './Header';
import Footer from './Footer';
import AddItems from './AddItems'
import im1 from './images/im1.jpg'
import im2 from './images/im2.jpg'
import im3 from './images/im3.jpg'
import im4 from './images/img4.jpg'
import noImg from './images/noImg.jpg'
function App() {
 let sty1 = {
   marginBottom:"2em"
 }
 let addSty1 = {
   textAlign: "left"
 }
 const [flipItem, updateitem] = useState(
  [
   {
     sno: 1,
     title: "Blanket",
     price: 500,
     imag: im1
   },
   {
     sno: 2,
     title: "T-Shirt",
     price: 1500,
     imag: im2
   },
   {
     sno: 3,
     title: "Rolex Watch",
     price: 20000,
     imag: im3
   },
   {
     sno: 4,
     title: "Samsung Galaxy A14",
     price: 50000,
     imag: im4
   }
  ]
 );
 function deleteItem(dltItm) {
  updateitem(
   flipItem.filter(e11 => {
```

```jsx
        return (e11.sno !== dltItm)
      })
    )
  }
  // For Update Element
  const [uptitle, setTitle] = useState("");
  const [upprice, setPrice] = useState("");
  const [upimagg, setImag] = useState("");
  const [editItem, setEditItem] = useState(null);
  function updateEvnt(updItem) {
    setEditItem(updItem);
    setTitle(updItem.title);
    setPrice(updItem.price);
    setImag(updItem.imag);
  }
  const UpdateItemForm = (sno, title, price, imagg) => {
    updateitem(prev =>
      prev.map(item =>
        item.sno === sno
          ? { ...item, title, price, imag: imagg }
          : item
      )
    );
  };
  const addItemForm = (title, price, imagg) => {
    console.log("Added Item: ", title, " Price is: ", price)
    const myItem = {
      sno: flipItem[flipItem.length - 1].sno + 1,
      title: title,
      price: price,
      imag: imagg
    }
    updateitem([...flipItem, myItem]);
  }
  return (
    <div>
      <Header siteName="FSWD1 Products" />
      <AddItems addItemForm={addItemForm} />
      <h2>Product Details</h2>
      {flipItem.length == 0 ? "No To Do List" :
        <div class="row">
          {flipItem.map(e1 => {
            return (<Items listItem={e1} key={e1.sno} deleteItem={deleteItem}
updateEvnt={updateEvnt} />);
          })}
        </div>
      }
      {editItem && (
        <form className='container my-3' style={addSty1} onSubmit={(e) => {
          e.preventDefault();
          UpdateItemForm(editItem.sno, uptitle, upprice, upimagg);
          setEditItem(null);
        }}>
          <h3>Modify Details for Product No. {editItem.sno}</h3>
          <div className="mb-3" style={addSty1}>
            <label>Product Name</label>
```

```jsx
          <input
            type="text"
            value={uptitle}
            onChange={(e1) => setTitle(e1.target.value)}
            className="form-control"
          />
        </div>
        <div className="mb-3" style={addSty1}>
          <label>Product Price</label>
          <input
            type="number"
            value={upprice}
            onChange={(e1) => setPrice(e1.target.value)}
            className="form-control"
          />
        </div>
        <div className="mb-3" style={addSty1}>
          <label>Product Image</label>
          <input
            type="file"
            onChange={(e1) => setImag(URL.createObjectURL(e1.target.files[0]))}
            className="form-control"
          />
        </div>
        <button className="btn btn-primary" style={sty1}>Modify</button>
      </form>
    )}
    <Footer siteName="FSWD1" />
  </div>
  );
}
export default App;
```

2. Header.js

```jsx
import React from 'react'
import adv1 from './images/adv1.jpg'
import adv2 from './images/adv2.jpeg'
import adv3 from './images/adv3.jpg'
export default function Header(props) {
  let bagClr = {
    backgroundColor: "yellow"
  }
  return (
    <>
      <nav class="navbar navbar-expand-lg navbar-light" style={bagClr}>
        <div class="container-fluid">
          <a class="navbar-brand mx-4" href="#"><b>{props.siteName}</b></a>
          <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarSupportedContent">
            <ul class="navbar-nav me-auto mb-2 mb-lg-0">
```

```html
          <li class="nav-item">
            <a class="nav-link active" aria-current="page"
href="localhost:3000">Home</a>
          </li>
          <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
              Dropdown
            </a>
            <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
              <li><a class="dropdown-item" href="#">Action</a></li>
              <li><a class="dropdown-item" href="#">Another action</a></li>
              <li><hr class="dropdown-divider" /></li>
              <li><a class="dropdown-item" href="#">Something else
here</a></li>
            </ul>
          </li>
          <li class="nav-item">
            <a class="nav-link disabled" href="#" tabindex="-1" aria-
disabled="true">Disabled</a>
          </li>
        </ul>
        <form class="d-flex">
          <input class="form-control me-2" type="search" placeholder="Search"
aria-label="Search" />
          <button class="btn btn-outline-success" type="submit">Search</button>
        </form>
      </div>
    </div>
  </nav>
  <div id="carouselExampleIndicators" class="carousel slide" data-bs-
ride="carousel">
    <div class="carousel-indicators">
      <button type="button" data-bs-target="#carouselExampleIndicators" data-
bs-slide-to="0" class="active" aria-current="true" aria-label="Slide 1"></button>
      <button type="button" data-bs-target="#carouselExampleIndicators" data-
bs-slide-to="1" aria-label="Slide 2"></button>
      <button type="button" data-bs-target="#carouselExampleIndicators" data-
bs-slide-to="2" aria-label="Slide 3"></button>
    </div>
    <div class="carousel-inner">
      <div class="carousel-item active">
        <img src={adv1} class="d-block w-100" alt="..." height="400px"/>
      </div>
      <div class="carousel-item">
        <img src={adv2} class="d-block w-100" alt="..." height="400px"/>
      </div>
      <div class="carousel-item">
        <img src={adv3} class="d-block w-100" alt="..." height="400px"/>
      </div>
    </div>
    <button class="carousel-control-prev" type="button" data-bs-
target="#carouselExampleIndicators" data-bs-slide="prev">
      <span class="carousel-control-prev-icon" aria-hidden="true"></span>
      <span class="visually-hidden">Previous</span>
    </button>
```

```
          <button class="carousel-control-next" type="button" data-bs-
target="#carouselExampleIndicators" data-bs-slide="next">
            <span class="carousel-control-next-icon" aria-hidden="true"></span>
            <span class="visually-hidden">Next</span>
          </button>
        </div>
      </>
    )
}
```

3. Footer.js

```
import React from 'react'
export default function Footer() {
  let ftStyl={
    position: "fixed",
    bottom: "0",
    backgroundColor: "black",
    color: "white",
    textAlign: "center",
    width: "100%"
  }
  return (
    <div style={ftStyl}>
      Copyright &copy; FSWD1 Lab by Debabrata Roy
    </div>
  )
}
```

4. Items.js

```
import React from 'react'
export default function Items(props) {
  let sty1 = {
    width: "18rem",
    marginLeft:"6em",
    marginRight:"8em",
    marginTop: "2em",
    height: "30rem",
    marginBottom: "4em"
  }
  let sty2={
    border: "2px solid black"
  }
  return (
    <>
      <div class="col-sm-3">
        <div class="card" style={sty1}>
          <img style={sty2} src={props.listItem.imag} class="card-img-top" alt=""
height="320rem" width="35rem"/>
          <div class="card-body">
            <h5 class="card-title">{props.listItem.title}</h5>
            <p class="card-text">Price: <b>{props.listItem.price}</b></p>
            <button type="button" className="btn btn-sm btn btn-warning mx-3"
onClick={() => props.updateEvnt(props.listItem)}>Update</button>
```

```jsx
                <button type="button" className="btn btn-sm btn-danger mx-3"
onClick={() => props.deleteItem(props.listItem.sno)}>Delete</button>
            </div>
          </div>
        </div>
      </>
    )
  }
}
```

5. AddItems.js

```jsx
import React, { useState } from 'react'
export default function AddItems(props) {
  let addSty1={
    textAlign:"left"
  }
  const [title, setTitle]=useState("");
  const [price, setPrice]=useState("");
  const [imagg, setImag]=useState("");
  const addSubmitItem = ((e)=>{
    e.preventDefault();
    if(!title || !price || !imagg){
      alert("Submission Fields can not be blank!!");
    }
    else
      props.addItemForm(title,price,imagg);
  })
  return (
    <div className='container my-3' style={addSty1}>
      <h1>Add New Product</h1>
      <form onSubmit={addSubmitItem}>
        <div class="mb-3" style={addSty1}>
          <label for="exampleInputEmail1" class="form-label">Product Name</label>
          <input type="text" value={title} onChange={(e1)=>setTitle(e1.target.value)}
class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp"/>
        </div>
        <div class="mb-3" style={addSty1}>
          <label for="exampleInputPassword1" class="form-label">Product
Price</label>
          <input type="number" value={price}
onChange={(e1)=>setPrice(e1.target.value)} class="form-control"
id="exampleInputPassword1"/>
        </div>
        <div class="mb-3" style={addSty1}>
          <label for="exampleInputPassword1" class="form-label">Product
Image</label>
          <input type="file"
onChange={(e1)=>setImag(URL.createObjectURL(e1.target.files[0]))} class="form-
control" id="exampleInputPassword1"/>
        </div>
        <button type="submit" class="btn btn-primary">Add Product</button>
      </form>
    </div>)}
```

6. index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);
reportWebVitals();
```

7. App.css

```
.App {
  text-align: center;
}
div{
  text-align: center;
}
.App-logo {
  height: 40vmin;
  pointer-events: none;
}
@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}
.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}
.App-link {
  color: #61dafb;
}
@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}
```

8. index.css

```css
body {
  margin: 0;
  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',
    'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
    sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}
code {
  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',
    monospace;
}
```