**ReactDay3 Tasks**

**Q1.Create HOCList component that display ProductList, EmployeeList using boostrap table.  
  
Code:  
  
ProductList.js:**import React from "react";

import HOCList from "./HOCList";

const productData = {

title: "Product List",

headers: ["ID", "Name", "Price", "Category"],

items: [

{ id: 1, name: "Laptop", price: "$1000", category: "Electronics" },

{ id: 2, name: "Smartphone", price: "$600", category: "Electronics" },

{ id: 3, name: "Chair", price: "$150", category: "Furniture" },

{ id: 4, name: "Table", price: "$300", category: "Furniture" },

],

};

const ProductList = () => <p className="text-center">Total Products: {productData.items.length}</p>;

export default HOCList(ProductList, productData);  
  
**EmployeeList.js:**import React from "react";

import HOCList from "./HOCList";

const employeeData = {

title: "Employee List",

headers: ["ID", "Name", "Position", "Department"],

items: [

{ id: 101, name: "Farhat", position: "Manager", department: "HR" },

{ id: 102, name: "Payal", position: "Developer", department: "IT" },

{ id: 103, name: "Ritwika", position: "Designer", department: "Marketing" },

{ id: 104, name: "Bobby", position: "Accountant", department: "Finance" },

],

};

const EmployeeList = () => <p className="text-center">Total Employees: {employeeData.items.length}</p>;

export default HOCList(EmployeeList, employeeData);

**HOCList.js:**import React from "react";

import "bootstrap/dist/css/bootstrap.min.css";

const HOCList = (WrappedComponent, data) => {

return () => (

<div className="container mt-4">

<h2 className="text-center mb-4">{data.title}</h2>

<div className="table-responsive">

<table className="table table-bordered table-striped">

<thead className="table-dark">

<tr>

{data.headers.map((header, index) => (

<th key={index}>{header}</th>

))}

</tr>

</thead>

<tbody>

{data.items.map((item, index) => (

<tr key={index}>

{Object.values(item).map((value, i) => (

<td key={i}>{value}</td>

))}

</tr>

))}

</tbody>

</table>

</div>

<WrappedComponent />

</div>

);

};

export default HOCList;

**App.js:**import React from "react";

import ProductList from "./ProductList";

import EmployeeList from "./EmployeeList";

import "bootstrap/dist/css/bootstrap.min.css";

const App = () => {

return (

<div className="container mt-5">

<h1 className="text-center mb-4">HOC List Example</h1>

<ProductList />

<EmployeeList />

</div>

);

};

export default App;  
  
**Q2.Create ProductComponent using FetchAPi to display product details in tabular format.**

**Code:  
  
App.js:**import logo from './logo.svg';

import './App.css';

function App() {

return (

<div className="App">

<header className="App-header">

<img src={logo} className="App-logo" alt="logo" />

<p>

Edit <code>src/App.js</code> and save to reload.

</p>

<a

className="App-link"

href="https://reactjs.org"

target="\_blank"

rel="noopener noreferrer"

>

Learn React

</a>

</header>

</div>

);

}

export default App;  
 **ProductComponent.js:**import React, { useState, useEffect } from 'react';

const ProductComponent = () => {

const [products, setProducts] = useState([]);

const [loading, setLoading] = useState(true);

const [error, setError] = useState(null);

useEffect(() => {

fetch('http://localhost:8082/product') // Replace with your Spring Boot endpoint

.then((response) => {

if (!response.ok) {

throw new Error('Network response was not ok');

}

return response.json();

})

.then((data) => {

setProducts(data);

setLoading(false);

})

.catch((error) => {

setError(error.message);

setLoading(false);

});

}, []);

if (loading) return <p>Loading...</p>;

if (error) return <p>Error: {error}</p>;

return (

<div>

<h2>Product List</h2>

<table className="table table-striped">

<thead>

<tr>

<th>ID</th>

<th>Name</th>

</tr>

</thead>

<tbody>

{products.map((product) => (

<tr key={product.id}>

<td>{product.id}</td>

<td>{product.name}</td>

</tr>

))}

</tbody>

</table>

</div>

);

};

export default ProductComponent;  
  
**Index.js:**import React from 'react';

import ReactDOM from 'react-dom/client';

import 'bootstrap/dist/css/bootstrap.min.css';

import ProductComponent from './ProductComponent'; // Import the ProductComponent

import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(

<React.StrictMode>

<ProductComponent /> {/\* Render the ProductComponent \*/}

</React.StrictMode>

);

// If you want to start measuring performance in your app, pass a function

// to log results (for example: reportWebVitals(console.log))

// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals

reportWebVitals();  
  
  
**Q3.Create Routing path for HomePage, LoginComponent,SignupComponent.**

**Code:  
  
HomePage.js:**import React from "react";

const HomePage = () => {

return (

<div className="text-center">

<h2>Welcome to the Home Page</h2>

<p>This is the homepage of our application.</p>

</div>

);

};

export default HomePage;  
  
**LoginComponent.js:**import React, { useState } from "react";

const LoginComponent = () => {

const [id, setId] = useState("");

const [password, setPassword] = useState("");

const handleSubmit = (e) => {

e.preventDefault();

if (id === "iguser" && password === "password") {

alert("Valid User");

} else {

alert("Invalid User");

}

};

return (

<div className="d-flex justify-content-center align-items-center vh-100 bg-light">

<div className="card p-4 shadow-sm">

<h2 className="text-center mb-4">Login</h2>

<form onSubmit={handleSubmit}>

<div className="mb-3">

<label className="form-label">ID:</label>

<input

type="text"

value={id}

onChange={(e) => setId(e.target.value)}

className="form-control"

/>

</div>

<div className="mb-3">

<label className="form-label">Password:</label>

<input

type="password"

value={password}

onChange={(e) => setPassword(e.target.value)}

className="form-control"

/>

</div>

<button type="submit" className="btn btn-primary w-100">

Login

</button>

</form>

</div>

</div>

);

};

export default LoginComponent;  
  
**SignupComponent.js:**import React, { useState } from "react";

const SignupComponent = () => {

const [customerId, setCustomerId] = useState("");

const [name, setName] = useState("");

const [email, setEmail] = useState("");

const [gender, setGender] = useState("");

const [city, setCity] = useState("");

const [review, setReview] = useState(false);

const handleReview = () => {

setReview(true);

};

return (

<div className="d-flex justify-content-center align-items-center vh-100 bg-light">

<div className="card p-4 shadow-sm w-50">

<h2 className="text-center mb-4">Signup</h2>

{!review ? (

<form>

<div className="mb-3">

<label className="form-label">Customer ID:</label>

<input

type="text"

value={customerId}

onChange={(e) => setCustomerId(e.target.value)}

className="form-control"

/>

</div>

<div className="mb-3">

<label className="form-label">Name:</label>

<input

type="text"

value={name}

onChange={(e) => setName(e.target.value)}

className="form-control"

/>

</div>

<div className="mb-3">

<label className="form-label">Email:</label>

<input

type="email"

value={email}

onChange={(e) => setEmail(e.target.value)}

className="form-control"

/>

</div>

<div className="mb-3">

<label className="form-label">Gender:</label>

<select

value={gender}

onChange={(e) => setGender(e.target.value)}

className="form-control"

>

<option value="">Select</option>

<option value="Male">Male</option>

<option value="Female">Female</option>

<option value="Other">Other</option>

</select>

</div>

<div className="mb-3">

<label className="form-label">City:</label>

<select

value={city}

onChange={(e) => setCity(e.target.value)}

className="form-control"

>

<option value="">Select</option>

<option value="Hyderabad">Hyderabad</option>

<option value="Chennai">Chennai</option>

<option value="Pune">Pune</option>

<option value="Mumbai">Mumbai</option>

<option value="Delhi">Delhi</option>

</select>

</div>

<button type="button" onClick={handleReview} className="btn btn-primary w-100">

Review

</button>

</form>

) : (

<div>

<h3 className="text-center">Review Details</h3>

<p><strong>Customer ID:</strong> {customerId}</p>

<p><strong>Name:</strong> {name}</p>

<p><strong>Email:</strong> {email}</p>

<p><strong>Gender:</strong> {gender}</p>

<p><strong>City:</strong> {city}</p>

</div>

)}

</div>

</div>

);

};

export default SignupComponent;

**App.js:**import React from "react";

import { BrowserRouter as Router, Route, Routes, Link } from "react-router-dom";

import HomePage from "./HomePage";

import LoginComponent from "./LoginComponent";

import SignupComponent from "./SignupComponent";

import "bootstrap/dist/css/bootstrap.min.css";

const App = () => {

return (

<Router>

<div className="container mt-4">

<nav className="navbar navbar-expand-lg navbar-light bg-light mb-4">

<Link className="navbar-brand" to="/">MyApp</Link>

<div className="collapse navbar-collapse">

<ul className="navbar-nav ml-auto">

<li className="nav-item">

<Link className="nav-link" to="/">Home</Link>

</li>

<li className="nav-item">

<Link className="nav-link" to="/login">Login</Link>

</li>

<li className="nav-item">

<Link className="nav-link" to="/signup">Signup</Link>

</li>

</ul>

</div>

</nav>

<Routes>

<Route path="/" element={<HomePage />} />

<Route path="/login" element={<LoginComponent />} />

<Route path="/signup" element={<SignupComponent />} />

</Routes>

</div>

</Router>

);

};

export default App;