**Redux Thunk**

**Code:**

**//redux/store.js**

import { createStore, applyMiddleware } from 'redux';

import { thunk } from 'redux-thunk';

import { rootReducer } from './reducers';

const store = createStore(rootReducer, applyMiddleware(thunk));

export default store;

//redux/reducers.js

const initialState = {

  products: [],

  cart: [],

};

export const rootReducer = (state = initialState, action) => {

  switch (action.type) {

    case 'ADD\_PRODUCT':

      return { ...state, products: [...state.products, action.payload] };

    case 'ADD\_TO\_CART':

      return { ...state, cart: [...state.cart, action.payload] };

    default:

      return state;

  }

};

//redux/action.js

export const addProduct = (product) => ({

  type: 'ADD\_PRODUCT',

  payload: product,

});

export const addToCart = (product) => ({

  type: 'ADD\_TO\_CART',

  payload: product,

});

//components/ProductForm.js

import React, { useState } from 'react';

import { useDispatch } from 'react-redux';

import { addProduct } from '../redux/actions';

const ProductForm = () => {

  const [form, setForm] = useState({

    id: '',

    name: '',

    price: '',

    description: '',

    catalogs: '',

  });

  const dispatch = useDispatch();

  const handleChange = (e) => {

    setForm({ ...form, [e.target.name]: e.target.value });

  };

  const handleSubmit = (e) => {

    e.preventDefault();

    const newProduct = {

      ...form,

      price: parseFloat(form.price),

      catalogs: form.catalogs.split(',').map((c) => c.trim()),

    };

    dispatch(addProduct(newProduct));

    alert('Product added!');

    setForm({ id: '', name: '', price: '', description: '', catalogs: '' });

  };

  return (

    <div className="container mt-4">

      <h2>Add Product</h2>

      <form onSubmit={handleSubmit}>

        <div className="mb-3">

          <label>ID</label>

          <input type="text" className="form-control" name="id" value={form.id} onChange={handleChange} required />

        </div>

        <div className="mb-3">

          <label>Name</label>

          <input type="text" className="form-control" name="name" value={form.name} onChange={handleChange} required />

        </div>

        <div className="mb-3">

          <label>Price</label>

          <input type="number" className="form-control" name="price" value={form.price} onChange={handleChange} required />

        </div>

        <div className="mb-3">

          <label>Description</label>

          <textarea className="form-control" name="description" value={form.description} onChange={handleChange}></textarea>

        </div>

        <div className="mb-3">

          <label>Catalogs (comma-separated)</label>

          <input type="text" className="form-control" name="catalogs" value={form.catalogs} onChange={handleChange} required />

        </div>

        <button type="submit" className="btn btn-success">Add Product</button>

      </form>

    </div>

  );

};

export default ProductForm;

//components/ProductList.js

import React from 'react';

import { useSelector, useDispatch } from 'react-redux';

import { addToCart } from '../redux/actions';

const ProductList = () => {

  const products = useSelector((state) => state.products);

  const dispatch = useDispatch();

  return (

    <div className="container mt-4">

      <h2>Product List</h2>

      {products.map((p) => (

        <div key={p.id} className="card mb-3">

          <div className="card-body">

            <h5>{p.name}</h5>

            <p>${p.price}</p>

            <p>Catalogs: {p.catalogs.join(', ')}</p>

            <button className="btn btn-primary" onClick={() => dispatch(addToCart(p))}>

              Add to Cart

            </button>

          </div>

        </div>

      ))}

    </div>

  );

};

export default ProductList;

//App.js

import React from 'react';

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

import ProductForm from './components/ProductForm';

import ProductList from './components/ProductList';

import Cart from './components/Cart';

function App() {

  return (

    <Router>

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

        <Link className="navbar-brand" to="/">Cart App</Link>

        <div className="navbar-nav">

          <Link className="nav-item nav-link" to="/form">Add Product</Link>

          <Link className="nav-item nav-link" to="/cart">Cart</Link>

        </div>

      </nav>

      <Routes>

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

        <Route path="/form" element={<ProductForm />} />

        <Route path="/cart" element={<Cart />} />

      </Routes>

    </Router>

  );

}

export default App;

//index.js

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

import App from './App';

import reportWebVitals from './reportWebVitals';

import { Provider } from 'react-redux';

import store from './redux/store';

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

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

root.render(

  <Provider store={store}>

    <App />

  </Provider>

);

// 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();

**Kết quả:**





