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| **React-Redux-Toolkit** |
| npm install @reduxjs/toolkit  npm install react-redux |
| **Create a Redux store using configureStore() function provided by Redux Toolkit. This function automatically sets up Redux DevTools Extension and enables middleware setup:**  // store.js  import { configureStore } from '@reduxjs/toolkit';  import rootReducer from './reducers';  const store = configureStore({  reducer: rootReducer,  // Optional: Add middleware or enhancers here  });  export default store; |
| **Combine reducers into a single rootReducer using combineReducers() function provided by Redux Toolkit:**  // reducers.js  import { combineReducers } from '@reduxjs/toolkit';  import counterReducer from './counterSlice';  const rootReducer = combineReducers({  counter: counterReducer,  // Add more reducers here if needed  });  export default rootReducer; |
| **Create reducers to define how the application state should change in response to actions. Redux Toolkit provides a createSlice() function to define reducers more efficiently:**  // counterSlice.js  import { createSlice } from '@reduxjs/toolkit';  const initialState = {  value: 0,  };  const counterSlice = createSlice({  name: 'counter',  initialState,  reducers: {  increment: state => {  state.value += 1;  },  decrement: state => {  state.value -= 1;  },  },  });  export const { increment, decrement } = counterSlice.actions;  export default counterSlice.reducer; |
| **Connect Redux Store to React Application**  Use **<Provider>** from **react-redux** to provide the Redux store to your React application:  // index.js  // index.js  import React from 'react';  import ReactDOM from 'react-dom';  import { Provider } from 'react-redux';  import store from './store';  import App from './App';  ReactDOM.render(  <Provider store={store}>  <App />  </Provider>,  document.getElementById('root')  ); |
| **Dispatch Actions**  Dispatch actions from React components to update the Redux store:  // App.js  // App.js  import React from 'react';  import { useDispatch, useSelector } from 'react-redux';  import { increment, decrement } from './counterSlice';  function App() {  const dispatch = useDispatch();  const count = useSelector(state => state.counter.value);  return (  <div>  <button onClick={() => dispatch(increment())}>Increment</button>  <br />  <span>Count is : {count}</span>  <br />  <button onClick={() => dispatch(decrement())}>Decrement</button>  </div>  );  }  export default App; |
| **Access State**  Access state from the Redux store in React components using **useSelector** hook provided by **react-redux**. |