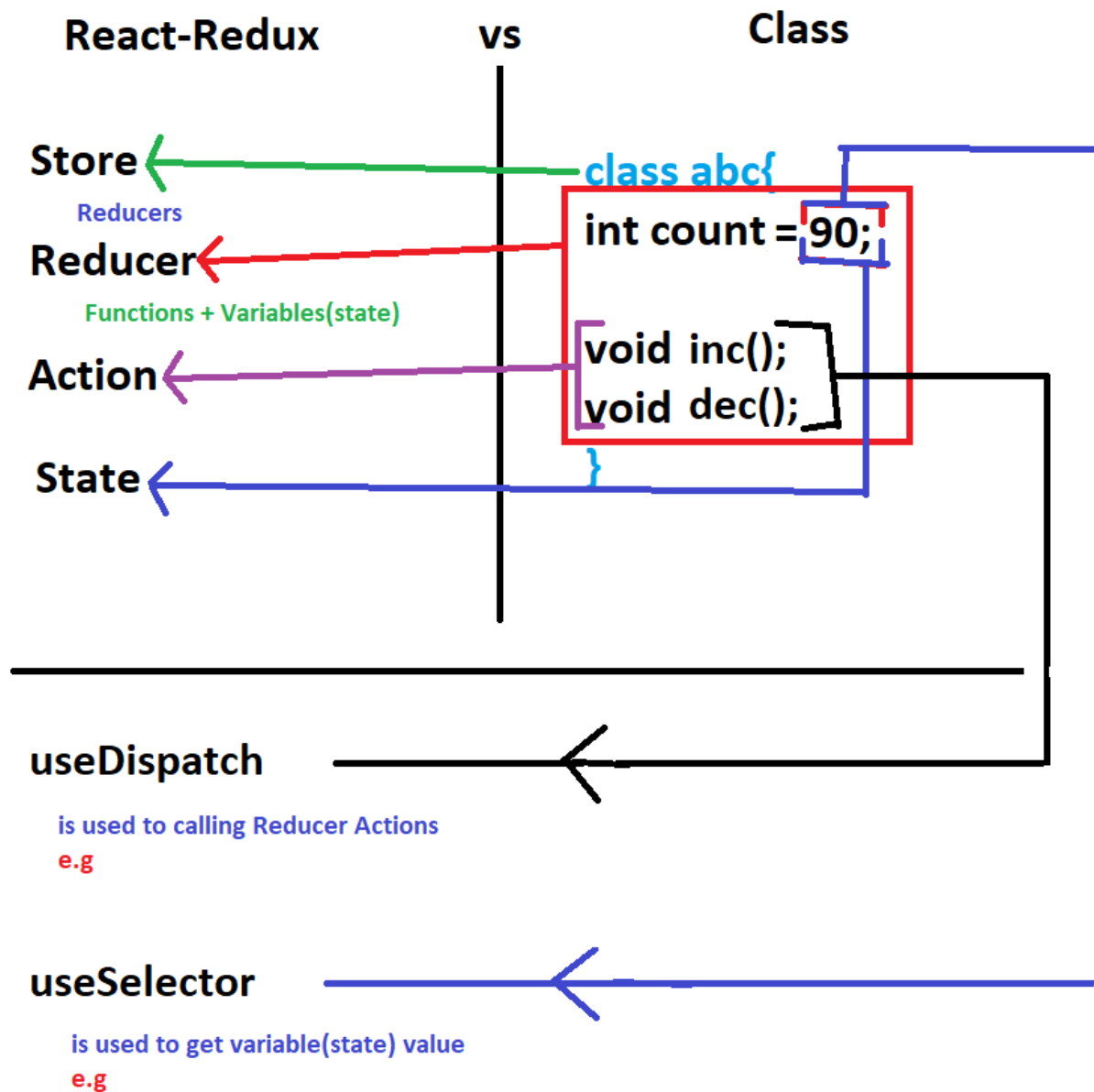


React-Redux



Index.js

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
import Store from './Store'
import { Provider } from 'react-redux';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <Provider store={Store}>
      <App />
    </Provider>
  </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();
```

App.js

```
import './App.css';
import Home from './home';

function App() {
  return (
    <>
      <Home/>
    </>
  );
}

export default App;
```

Home.js

```
import { React } from 'react'
import './Home.css';
import { useDispatch, useSelector } from 'react-redux';

export default function Home() {
  const dispatch = useDispatch();
  const count = useSelector(state => state.countValue.count); //Get State value
  //increase counter
  const increase = () => {
    dispatch({
      type: "increment", //Reducer Function call
      //payload:20, //this parameter never use in Reducer
    });
  };

  //decrease counter
  const decrease = () => {
    dispatch({
      type: "decrement", //Reducer Function call
      //payload:20, //this parameter never use in Reducer
    });
  };

  //reset counter
  const resetCounter = () => {
    dispatch({
      type: "reset", //Reducer Function call
      //payload:0, //this parameter never use in Reducer
    });
  }

  return (
    <div className="counter">
      <h1>React-Redux Counter</h1>
      <h2>using React-Redux and @reduxjs/toolkit</h2>
      <span className="counter__output">{count}</span>
      <div className="btn__container">
        <button className="control__btn" onClick={increase}>+</button>
        <button className="control__btn" onClick={decrease}>-</button>
        <button className="reset" onClick={resetCounter}>Reset</button>
      </div>
    </div>
  );
}
```

ReduxFiles

npm install @reduxjs/toolkit react-redux

Store.js

```
import { configureStore } from "@reduxjs/toolkit";
import { customReducer } from "../Reducers";

const store = configureStore({
  reducer: {
    countValue: customReducer,
  }
});

export default store;
```

Reducer.js

```
import {createReducer} from "@reduxjs/toolkit"

const initialState = {
  count:0,
}

export const customReducer = createReducer(
  initialState ,{
    increment: (state , action)=>{
      state.count += 1;
    },

    decrement: (state , action)=>{
      state.count -= 1;
    },

    reset: (state , action)=>{
      state.count = 0;
    },

    incrementByValue: (state , action)=>{
      state.count += action.payload;
    },

    decrementByValue: (state , action)=>{
      state.count -= action.payload;
    }
  }
);
```

Calling Reducer function from Store

Home.js

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

export default function Home() {

  const dispatch = useDispatch();
  const count = useSelector(state => state.countValue.count); //Get State

  //increase counter
  const increase = () => {
    dispatch({
      type: "increment", //Reducer Function call
      //payload:20 //this parameter never use in Reducer
    });
  };
}
```

Store.js

```
react_redux_counter > src > JS Store.js > [0] default
1 import { configureStore } from "@reduxjs/toolkit";
2 import { customReducer } from "../Reducers";
3
4 const store = configureStore({
5   reducer: {
6     countValue: customReducer,
7   }
8 });
9
10 export default store;
```

Reducer.js

```
react_redux_counter > src > JS Reducers.js > ...
1 import { createReducer } from "@reduxjs/toolkit"
2
3 const initialState = {
4   count:0,
5 }
6
7 export const customReducer = createReducer(
8   initialState, {
9     increment: (state, action) => {
10       state.count += 1;
11     },
12     decrement: (state, action) => {
13       state.count -= 1;
14     },
15   },
16 )
```

Read state

Home.js

```
react_redux_counter > src > home.jsx > Home > Increase
import { React } from 'react'
import './Home.css';
import { useDispatch, useSelector } from 'react-redux';

export default function Home() {

  const dispatch = useDispatch();
  const count = useSelector(state => state.countValue.count); //Get State
```

Store.js

```
react_redux_counter > src > JS Store.js > default
1 import { configureStore } from "@reduxjs/toolkit";
2 import { customReducer } from "../Reducers";
3
4 const store = configureStore({
5   reducer: {
6     countValue: customReducer,
7   }
8 });
9
10 export default store;
```

Reducer.js

```
JS App.js M home.jsx U JS index.js M JS Store.js U JS Reducers.js U
react_redux_counter > src > JS Reducers.js > customReducer
1 import {createReducer} from "@reduxjs/toolkit"
2
3 const initialState = {
4   count:0,
5 }
6
7 export const customReducer = createReducer(
8   initialState, {
9     increment: (state, action) => {
10       state.count += 1;
11     },
12 }
```

Output

