Redux Toolkit

Redux 工具集

拉勾教育

概述

对 Redux 进行的二次封装,用于高效 Redux 开发,使 Redux 的使用变得简单。 npm install @reduxjs/toolkit@1.6.0 react-redux@7.2.4

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又栏

1. 创建状态切片

对于状态切片,我们可以认为它就是原本 Redux 中的那一个个的小的 Reducer 函数。在 Redux 中,原本 Reducer 函数和 Action 对象需要分别创建,现在通过状态切片替代,它会返回 Reducer 函数和 Action 对象.

1. 创建状态切片

```
import { createSlice } from "@reduxjs/toolkit"
const { reducer: TodosReducer, actions } = createSlice()
```

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1. 创建状态切片

```
export const TODOS_FEATURE_KEY = "todos"
createSlice({
  name: TODOS_FEATURE_KEY,
  initialState: [],
  reducers: {
   addTodo: (state, action) ⇒ {
     state.push(action.payload)
```

1. 创建状态切片

```
const { reducer: TodosReducer, actions } = createSlice()
export const { addTodo } = actions
export default TodosReducer
```

2. 创建 Store

```
import { configureStore } from "@reduxjs/toolkit"
import TodosReducer, { TODOS_FEATURE_KEY } from "./todos"

export default configureStore({
   reducer: {
      [TODOS_FEATURE_KEY]: TodosReducer
   },
   devTools: process.env.NODE_ENV ## "production"
})
```

3. 配置 Provider

```
import ReactDOM from "react-dom"
import App from "./App"
import { Provider } from "react-redux"
import store from "./store"
ReactDOM.render(
  <Provider store={store}>
    <App />
  </Provider>,
  document.getElementById("root")
```

4. 在组件中触发 Action,获取状态

```
import { addTodo, TODOS_FEATURE_KEY } from "./store/todos"
import { useDispatch, useSelector } from "react-redux"
function Todos() {
  const dispatch = useDispatch()
  const todos = useSelector(state ⇒ state[TODOS_FEATURE_KEY])
  return (
    <div>
     <button onClick={() ⇒ dispatch(addTodo({ title: "测试任务" }))}>添加任务</button>
     <l
        \{todos.map((todo, index) \Rightarrow \{todo.title}\}
```

5. Action 预处理

当 Action 被触发后, 可以通过 prepare 方法对 Action 进行预处理, 处理完成后交给 Reducer. prepare 方法必须返回对象.

```
reducers: {
  addTodo: {
    reducer: (state, action) ⇒ {
       state.push(action.payload)
    },
    prepare: todo ⇒ {
       return { payload: { ... todo, title: "haha" } }
    }
}
```

执行异步操作(方式一)

1. 创建执行异步操作的 Action 创建函数

```
import { createSlice, createAsyncThunk } from "@reduxjs/toolkit"
import axios from "axios"

export const loadTodos = createAsyncThunk(
   "todos/loadTodos",
   (payload, thunkAPI) ⇒ {
     axios.get(payload) .then(response ⇒ thunkAPI.dispatch(setTodos(response.data)))
   }
}
```

执行异步操作(方式一)

2. 创建接收异步操作结果的 Reducer

```
const { reducer: TodosReducer, actions } = createSlice({
  reducers: {
    setTodos: (state, action) ⇒ {
      action.payload.forEach(todo ⇒ state.push(todo))
    }
  }
})
```

执行异步操作(方式一)

3. 在组件中触发 Action

```
function Todos() {
  const dispatch = useDispatch()
  useEffect(() ⇒ {
    dispatch(loadTodos("https://jsonplaceholder.typicode.com/todos"))
  }, [])
}
```

执行异步操作(方式二)

1. 创建执行异步操作的 Action 创建函数

```
import { createSlice, createAsyncThunk } from "@reduxjs/toolkit"
import axios from "axios"

export const loadTodos = createAsyncThunk("todos/loadTodos", payload ⇒ {
  return axios.get(payload).then(response ⇒ response.data)
})
```

执行异步操作(方式二)

2. 创建接收异步操作结果的 Reducer

```
createSlice({
  extraReducers: {
    [loadTodos.fulfilled]: (state, action) ⇒ {
      action.payload.forEach(todo ⇒ state.push(todo))
    }
  }
})
```

配置中间件

npm i redux-logger

```
import { configureStore, getDefaultMiddleware } from "@reduxjs/toolkit"
import logger from "redux-logger"

export default configureStore({
   middleware: [... getDefaultMiddleware(), logger]
})
```

将状态放入实体适配器,实体适配器提供操作状态的各种方法,简化操作。

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

const todosAdapter = createEntityAdapter()

todosAdapter.getInitialState()
todosAdapter.addOne(state, action.payload)
todosAdapter.addMany(state, action.payload)
```

在组件中获取状态,展示状态。

代码简化,实体操作方法的第一个参数为 state,第二个参数为 action,内部会自动将对数据进行操作。比如对于 addOne 方法,它会自动将 action.payload 添加到 state 中。

```
reducers: {
  addTodo: todosAdapter.addOne
},
extraReducers: {
  [loadTodos.fulfilled]: todosAdapter.addMany
}
```

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实体适配器要求每一个实体必须拥有 id 属性作为唯一标识,如果实体中的唯一标识字段不叫做 id, 需要使用 selectld 进行声明。

```
const todosAdapter = createEntityAdapter({ selectId: todo ⇒ todo.cid })
```

状态选择器

提供从实体适配器中获取状态的快捷途径。

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

const { selectAll } = todosAdapter.getSelectors()

export const selectTodosList = createSelector(
   state ⇒ state[TODOS_FEATURE_KEY],
   selectAll
)
```

状态选择器

在组件中使用状态选择器

```
import { selectTodosList } from "./store/todos"

function Todos() {
  const todos = useSelector(selectTodosList)
}
```

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