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1. 生成项目

```
create-react-app zhufeng_connected_router_ts --typescript
cd zhufeng_connected_router_ts
cnpm i react-router-dom @types/react-router-dom -S
cnpm i redux react-redux @types/react-redux redux-thunk redux-logger @types/redux-logger connected-react-router -S
```

2. 跑通项目

```
import React from 'react';
import ReactDOM from 'react-dom';
import { Route, Link } from 'react-router-dom';
import Home from '../components/Home';
import Counter from '../components/Counter';
import { ConnectedRouter } from 'connected-react-router';
import history from './history';
import store from './store';
import { Provider } from 'react-redux';
ReactDOM.render(
  <Provider store={store}>
    <ConnectedRouter history={history}>
      <div>
        <Route path="/" component={Home} />
        <Route path="/counter" component={Counter} />
      </div>
    </ConnectedRouter>
  </Provider>, document.getElementById('root'));
```

src\store\index.tsx

```
import { applyMiddleware, createStore } from 'redux'
import { routerMiddleware } from 'connected-react-router'
import history from './history';
import reducers from './reducers';
const store = applyMiddleware(routerMiddleware(history))(createStore)(reducers);
export default store;
```

src\history.tsx

```
import { createHashHistory } from 'history'
let history = createHashHistory();
export default history;
```

src\store\reducers\index.tsx

```
import { combineReducers, ReducersMapObject, Action, AnyAction, Reducer } from 'redux'
import { connectRouter, RouterState } from 'connected-react-router'
import counter, { CounterState } from './counter';
import history from 'connected-react-router';
interface Reducers {
  router: RouterState,
  counter: CounterState;
}
let reducers: ReducersMapObject = {
  router: connectRouter(history),
  counter
};
export type RootState = {
  [key in keyof typeof reducers]: ReturnType<typeof reducers[key]>
}
let rootReducer: Reducer = combineReducers(reducers);
export default rootReducer;
```

src\store\reducers\counter.tsx

```
import * as types from './action-types';
import { AnyAction } from 'redux';
export interface CounterState {
  number: number
}
let initialState: CounterState = { number: 0 }
export default function (state: CounterState = initialState, action: AnyAction): CounterState {
  switch (action.type) {
    case types.INCREMENT:
      return { number: state.number + 1 };
    case types.DECREMENT:
      return { number: state.number - 1 };
    default:
      return state;
  }
}
```

src\store\actions\types.tsx

```
export const INCREMENT = 'INCREMENT';
export const DECREMENT = 'DECREMENT';
```

src\store\actions\counter.tsx

```
import * as types from '../action-types';
import { push } from '../../connected-react-router';
export default {
  increment() {
    return { type: types.INCREMENT }
  },
  decrement() {
    return { type: types.DECREMENT }
  },
  go(path: string) {
    return push(path);
  }
}
```

src/components/Home.tsx

```
import React, { Component } from 'react';
import { RouteComponentProps } from 'react-router';
interface IParams { }
type RouteProps = RouteComponentProps;
type Props = RouteProps & {
  children?: any
}
export default class Home extends Component<Props> {
  render() {
    return (
      <div>
        <h1>Homeh1</h1>
        <button onClick={() => this.props.history.go(-1)}>返回button</button>
      </div>
    )
  }
}
```

src/components/Counter.tsx

```
import React, { Component } from 'react'
import { connect } from 'react-redux';
import actions from '../store/actions/counter';
import { CounterState } from '../store/reducers/counter';
import { RootState } from '../store/reducers';
type Props = CounterState & typeof actions;
class Counter extends Component<Props> {
  render() {
    return (
      <>
        <p>{this.props.number}</p>
        <button onClick={this.props.increment}>+button</button>
        <button onClick={this.props.decrement}>-button</button>
        <button onClick={() => this.props.go('/')}>Homebutton</button>
      </>
    )
  }
}
let mapStateToProps = (state: RootState): CounterState => state.counter;
export default connect(
  mapStateToProps,
  actions
)(Counter);
```

3.实现connected-react-router

src/connected-react-router/index.tsx

```
import push from './push';
import routerMiddleware from './routerMiddleware';
import connectRouter from './connectRouter';
import ConnectedRouter from './ConnectedRouter';
export {
  push, routerMiddleware, connectRouter, ConnectedRouter
}
export * from './types';
```

src/connected-react-router/types.ts

```
import { LocationState, Location } from 'history';
export const CALL_HISTORY_METHOD: '@@router/CALL_HISTORY_METHOD' = '@@router/CALL_HISTORY_METHOD';
export const LOCATION_CHANGE: '@@router/LOCATION_CHANGE' = '@@router/LOCATION_CHANGE';
export interface LocationActionPayload {
  method: string;
  args?: A;
}

export interface CallHistoryMethodAction {
  type: typeof CALL_HISTORY_METHOD;
  payload: LocationActionPayload;
}

export interface LocationChangeAction {
  type: typeof LOCATION_CHANGE;
  payload: LocationChangePayload;
}

export interface LocationChangePayload extends RouterState {
  isFirstRendering: boolean;
}

export type Action = 'PUSH' | 'POP' | 'REPLACE';
export type RouterActionType = Action;
export interface RouterState {
  location: Location
  action: RouterActionType
}
```

src/connected-react-router/push.tsx

```
import { LocationState, Path, LocationDescriptorObject } from 'history';
import { CALL_HISTORY_METHOD, CallHistoryMethodAction } from './';
export default function push(location: LocationDescriptorObject): CallHistoryMethodAction>;
export default function push(location: LocationDescriptorObject): CallHistoryMethodAction> {
  return {
    type: CALL_HISTORY_METHOD,
    payload: {
      method: 'push',
      args: [location]//history.push(location);
    }
  }
}
```

src\connected-react-router\routerMiddleware.tsx

```
import { History } from 'history';
import { CALL_HISTORY_METHOD } from './';
export default function (history: History) {
  return function (api: any) {
    return function (next: any) {
      return function (action: any) {

        if (action.type === CALL_HISTORY_METHOD) {
          let method: 'push' | 'go' = action.payload.method;
          history[method](action.payload.args[0]);
        } else {
          next(action);
        }
      }
    }
  }
}
```

src\connected-react-router\connectRouter.tsx

```
import React from 'react';
import { ReactReduxContext } from 'react-redux';
import { Router } from 'react-router';
import { History, Location, UnregisterCallback } from 'history';
import { LOCATION_CHANGE, Action } from './';

interface Props {
  history: History
}

export default class ConnectedRouter extends React.Component<Props> {
  static contextType = ReactReduxContext;
  unlisten: UnregisterCallback
  componentDidMount() {

    this.unlisten = this.props.history.listen((location: Location, action: Action) => {
      this.context.store.dispatch({
        type: LOCATION_CHANGE,
        payload: {
          location,
          action
        }
      })
    });
  }
  componentWillUnmount() {
    this.unlisten();
  }
  render() {
    let { history, children } = this.props;
    return (
      <Router history={history}>
        {children}
      </Router>
    )
  }
}
```

src\connected-react-router\connectRouter.tsx

```
import { History, LocationState } from 'history';
import { AnyAction } from 'redux';
import { LocationChangeAction, LOCATION_CHANGE, RouterState } from './';
export default function connectRouter<S = LocationState>(history: History) {
  let initialState: RouterState = {
    action: history.action,
    location: history.location
  }
  return function (state: RouterState = initialState, action: AnyAction) {
    if (action.type === LOCATION_CHANGE) {
      return (action as LocationChangeAction).payload;
    }
    return state;
  }
}
```