link: null
title: 珠峰架构师成长计划
description: src\index.tsx
keywords: null
author: null
date: null
publisher: 珠峰架构师成长计划
stats: paragraph=375 sentences=1540, words=7396

1.搭建开发环境

1.1 package.json

```json
{
  "name": "zhufeng-ts-ketang",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "dev": "webpack-dev-server"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "@types/react": "^16.8.3",
    "@types/react-dom": "^16.8.1",
    "@types/react-redux": "^7.0.1",
    "@types/react-router-dom": "^4.3.1",
    "@types/redux-logger": "^3.0.7",
    "connected-react-router": "^6.3.1",
    "react": "^16.8.2",
    "react-dom": "^16.8.2",
    "react-redux": "^6.0.0",
    "react-router-dom": "^4.3.1",
    "redux": "^4.0.1",
    "redux-logger": "^3.0.6",
    "redux-thunk": "^2.3.0"
  },
  "devDependencies": {
    "html-webpack-plugin": "^3.2.0",
    "source-map-loader": "^0.2.4",
    "ts-loader": "^5.3.3",
    "typescript": "^3.3.3",
    "webpack": "^4.29.3",
    "webpack-cli": "^3.2.3",
    "webpack-dev-server": "^3.1.14"
  }
}
```

1.2 tsconfig.json

```json
{
  "compilerOptions": {
    "outDir": "./dist",
    "sourceMap": true,
    "noImplicitAny": true,
    "module": "commonjs",
    "target": "es5",
    "jsx": "react"
  }
}
```

1.3 webpack.config.js

```
const webpack=require('webpack');
const HtmlWebpackPlugin=require('html-webpack-plugin');
const path=require('path');
module.exports={
    mode: 'development',
    entry: "./src/index.tsx",
    output: {
        filename: "bundle.js",
        path: path.join(__dirname,'dist')
    },
    devtool: "source-map",
    devServer: {
        hot: true,
        contentBase: path.join(__dirname,'dist'),
        historyApiFallback: {
            index:'./index.html'
        }
    },
    resolve: {
        extensions: [".ts", ".tsx", ".js", ".json"]
    },

    module: {
        rules: [{
                test: /\.tsx?$/,
                loader: "ts-loader"
            },

            {
                enforce: "pre",
                test: /\.js$/,
                loader: "source-map-loader"
            }
        ]
    },

    plugins: [
        new HtmlWebpackPlugin({
            template:'./src/index.html'
        }),
        new webpack.HotModuleReplacementPlugin()
    ],
};
```

1.4 src\index.tsx

src\index.tsx

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import Counter1 from './components/Counter1';
import Counter2 from './components/Counter2';
import { Provider } from 'react-redux';
import store from './store';
import {Route,Link } from 'react-router-dom';
import { ConnectedRouter } from 'connected-react-router'
import history from './store/history';
ReactDOM.render((
    <Provider store={store}>
        <ConnectedRouter history={history}>
            <React.Fragment>
                <Link to="/counter1">counter1Link>
                <Link to="/counter2">counter2Link>
              <Route path="/counter1" component={Counter1} />
              <Route path="/counter2" component={Counter2}/>
         React.Fragment>
        ConnectedRouter>
    Provider>
),document.getElementById('root'));
```

1.5 src\index.html

src\index.html

```

    珠峰课堂

```

1.6 components\Counter1.tsx

src\components\Counter1.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import * as types from '../store/types';
import * as actions from '../store/actions/counter1';
export interface Props{
    number: number,
    increment1: any,
    decrement1: any,
    goCounter2: any
}
class Counter1 extends React.Component<Props>{
    render() {
        const {number,increment1,decrement1,goCounter2}=this.props;
        return (
            <div>
                <p>{number}p>
                <button onClick={increment1}>+button>
                <button onClick={decrement1}>-button>
                <button onClick={goCounter2}>goCounter2button>
            div>
        )
    }
}

let mapStateToProps=function (state:types.Store):types.Counter1 {
    return state.counter1;
}

export default connect(mapStateToProps,actions)(Counter1);
```

1.7 components\Counter2.tsx

src\components\Counter2.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import * as types from '../store/types';
import * as actions from '../store/actions/counter2';
export interface Props{
    number: number,
    increment2: any,
    decrement2: any
}
class Counter2 extends React.Component<Props>{
    render() {
        const {number,increment2,decrement2}=this.props;
        return (
            <div>
                <p>{number}p>
                <button onClick={increment2}>+button>
                <button onClick={decrement2}>-button>
            div>
        )
    }
}

let mapStateToProps=function (state:types.Store):types.Counter2 {
    return state.counter2;
}

export default connect(mapStateToProps,actions)(Counter2);
```

1.8 store\index.tsx

src\store\index.tsx

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

1.9 history.tsx

src\store\history.tsx

```
import {createBrowserHistory} from 'history'
const history=createBrowserHistory()
export default history;
```

1.10 store\action-types.tsx

src\store\action-types.tsx

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

export const INCREMENT1='INCREMENT1';
export const DECREMENT1='DECREMENT1';

export const INCREMENT2='INCREMENT2';
export const DECREMENT2='DECREMENT2';
```

1.11 store\types\index.tsx

src\store\types\index.tsx

```
export interface Store{
    counter1: Counter1,
    counter2: Counter2
}
export interface Counter1{
    number: number
}
export interface Counter2{
    number: number
}
```

1.12 store\reducers\index.tsx

src\store\reducers\index.tsx

```
import counter1 from './counter1';
import counter2 from './counter2';
import { combineReducers } from 'redux';
import history from '../history';
import { connectRouter } from 'connected-react-router'
let reducers=combineReducers({
    counter1,
    counter2,
    router: connectRouter(history)
});
export default reducers;
```

1.13 store\reducers\counter1.tsx

src\store\reducers\counter1.tsx

```
import * as types from '../action-types';
import { Counter1 } from '../types';
import {Action} from '../actions/counter1';
export default function (state: Counter1={ number: 0 },action: Action): Counter1 {
    switch (action.type) {
        case types.INCREMENT1:
            return {...state,number:state.number+1};
        case types.DECREMENT1:
            return {...state,number:state.number-1};
        default:
            return state;
    }
}
```

1.14 store\reducers\counter2.tsx

src\store\reducers\counter2.tsx

```
import * as types from '../action-types';
import { Counter2 } from '../types';
import {Action} from '../actions/counter2';
export default function (state: Counter2={ number: 0 },action: Action): Counter2 {
    switch (action.type) {
        case types.INCREMENT2:
            return {...state,number:state.number+1};
        case types.DECREMENT2:
            return {...state,number:state.number-1};
        default:
            return state;
    }
}
```

1.15 store\actions\counter1.tsx

src\store\actions\counter1.tsx

```
import {INCREMENT1,DECREMENT1} from '../action-types';
import { push } from 'connected-react-router';

export interface Increment1{
    type:typeof INCREMENT1
}
export interface Decrement1{
    type:typeof DECREMENT1
}
export type Action=Increment1|Decrement1;

export function increment1(): any {
    return function (dispatch:any,getState:any) {
        setTimeout(function () {
            dispatch({
                type:INCREMENT1
            })
        },1000);
    }
}
export function decrement1():Decrement1 {
    return { type: DECREMENT1 };
}
export function goCounter2():any {
    return push('/counter2');
}
```

1.16 store\actions\counter2.tsx

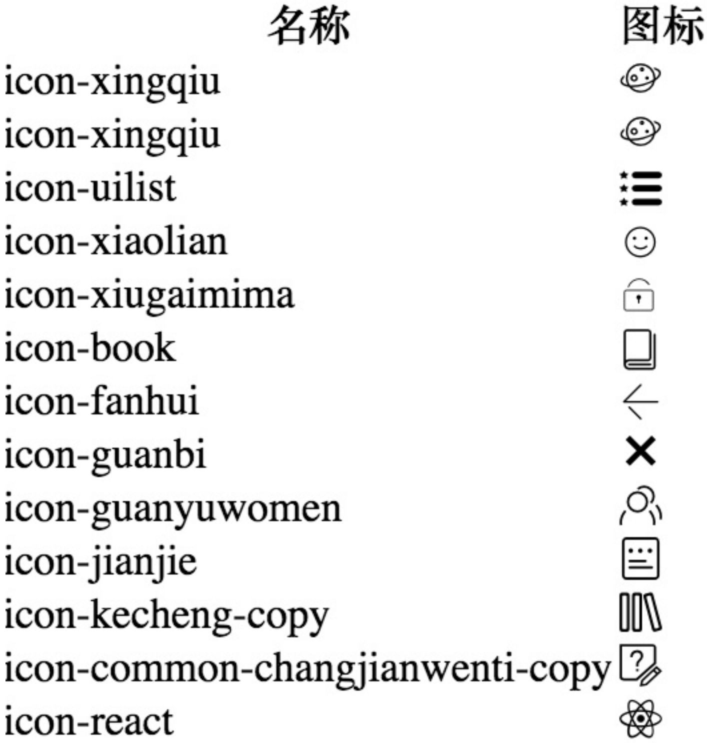
src\store\actions\counter2.tsx

```
import {INCREMENT2,DECREMENT2} from '../action-types';
export interface Increment2{
    type:typeof INCREMENT2
}
export interface Decrement2{
    type:typeof DECREMENT2
}
export type Action=Increment2|Decrement2;

export function increment2(): Increment2 {
    return { type: INCREMENT2 };
}
export function decrement2():Decrement2 {
    return { type: DECREMENT2 };
}
```

2. 项目准备

- PS素材 (http://img.zhufengpeixun.cn/zhufengketang-resource.zip)
- 图标链接 (http://at.alicdn.com/t/font_pgg5jafnob51m7vi.css)
    - .icon-uilist
    - .icon-xiaolian
    - .icon-book
    - .icon-fanhui
    - .icon-guanbi
    - .icon-xingqiu
    - .icon-kecheng-copy
    - .icon-react



名称	图标
icon-xingqiu	🪐
icon-xingqiu	🪐
icon-uilist	☰
icon-xiaolian	☺
icon-xiugaimima	🔓
icon-book	📖
icon-fanhui	←
icon-guanbi	✕
icon-guanyuwomen	👥
icon-jianjie	📋
icon-kecheng-copy	📚
icon-common-changjianwenti-copy	❓
icon-react	⚛

3. 首页导航

3.1 package.json

```
  "devDependencies": {
+    "css-loader": "^2.1.0",
+    "less": "^3.9.0",
+    "less-loader": "^4.1.0",
+    "style-loader": "^0.23.1",
  }
}
```

3.2 webpack.config.js

webpack.config.js

```
     devServer: {
        hot: true,
        contentBase: path.join(__dirname,'dist'),
+       historyApiFallback: true
     },
+     {
+         test: /\.less$/,
+         use:['style-loader','css-loader','less-loader']
+      }
```

3.3 src/index.tsx

src/index.tsx

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { Provider } from 'react-redux';
import store from './store';
import {Route,Link } from 'react-router-dom';
import { ConnectedRouter } from 'connected-react-router'
import history from './store/history';
import App from './containers/App';
ReactDOM.render((
    <Provider store={store}>
        <ConnectedRouter history={history}>
           <Route component={App}/>
        ConnectedRouter>
    Provider>
),document.getElementById('root'));
```

3.4 common\index.less

src\common\index.less

```
*{
    margin: 0;
    padding: 0;
}
ul,li{
    list-style: none;
}
a{
    text-decoration: none;
}
html,body,#root{
    width:100%;
    height:100%;
    overflow: hidden;
}
```

3.5 components\Tab\index.tsx

src\components\Tab\index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import {NavLink} from 'react-router-dom';
import './index.less';
interface Props{

}
class Tab extends React.Component<Props>{
  render(){
      return (
          <nav className="footer">
            <NavLink  exact to="/" activeClassName="active">
                <i className="iconfont icon-xingqiu">i>
                首页
            NavLink>
            <NavLink   to="/mime" activeClassName="active">
                <i className="iconfont icon-react">i>
                我的课程
            NavLink>
            <NavLink   to="/profile" activeClassName="active">
                <i className="iconfont icon-xiaolian">i>
                个人中心
            NavLink>
          nav>
      )
  }
}
export default connect()(Tab);
```

3.6 components\Tab\index.less

src\components\Tab\index.less

```
.footer{
    position: fixed;
    width:100%;
    height:53px;
    bottom:0;
    display: flex;
    background-color: #FFF;
    border-top:1px solid #d5d5d5;
    a{
        flex:1;
        display: flex;
        color:#b5b5b6;
        flex-direction: column;
        justify-content: center;
        align-items: center;
        &.active{
            color:#188ae4;
        }
    }
}
```

3.6 containers\App.tsx

src\containers\App.tsx

```
import {Route,Link,Switch} from 'react-router-dom';
import * as React from 'react';
import Tab from '../components/Tab';
import Home from './Home';
import Mime from './Mime';
import Profile from './Profile';
import '../common/index.less';
interface IProps{
    children:any
}
export default class App extends React.Component<IProps>{
  render(){
     return (
        <React.Fragment>
            <Route exact path="/" component={Home}/>
            <Route path="/mime" component={Mime}/>
            <Route path="/profile" component={Profile}/>
            <Tab>Tab>
        React.Fragment>
     )
  }
}
```

3.7 containers\Home\index.tsx

src\containers\Home\index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import './index.less';
interface Props{

}
class Home extends React.Component<Props>{
  render(){
      return (
        <div >
          Home
        div>
      )
  }
}
export default connect()(Home);
```

3.8 containers\Mime\index.tsx

src\containers\Mime\index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import './index.less';
interface Props{

}
class Mime extends React.Component<Props>{
  render(){
      return (
        <div >
          Mime
        div>
      )
  }
}
export default connect()(Mime);
```

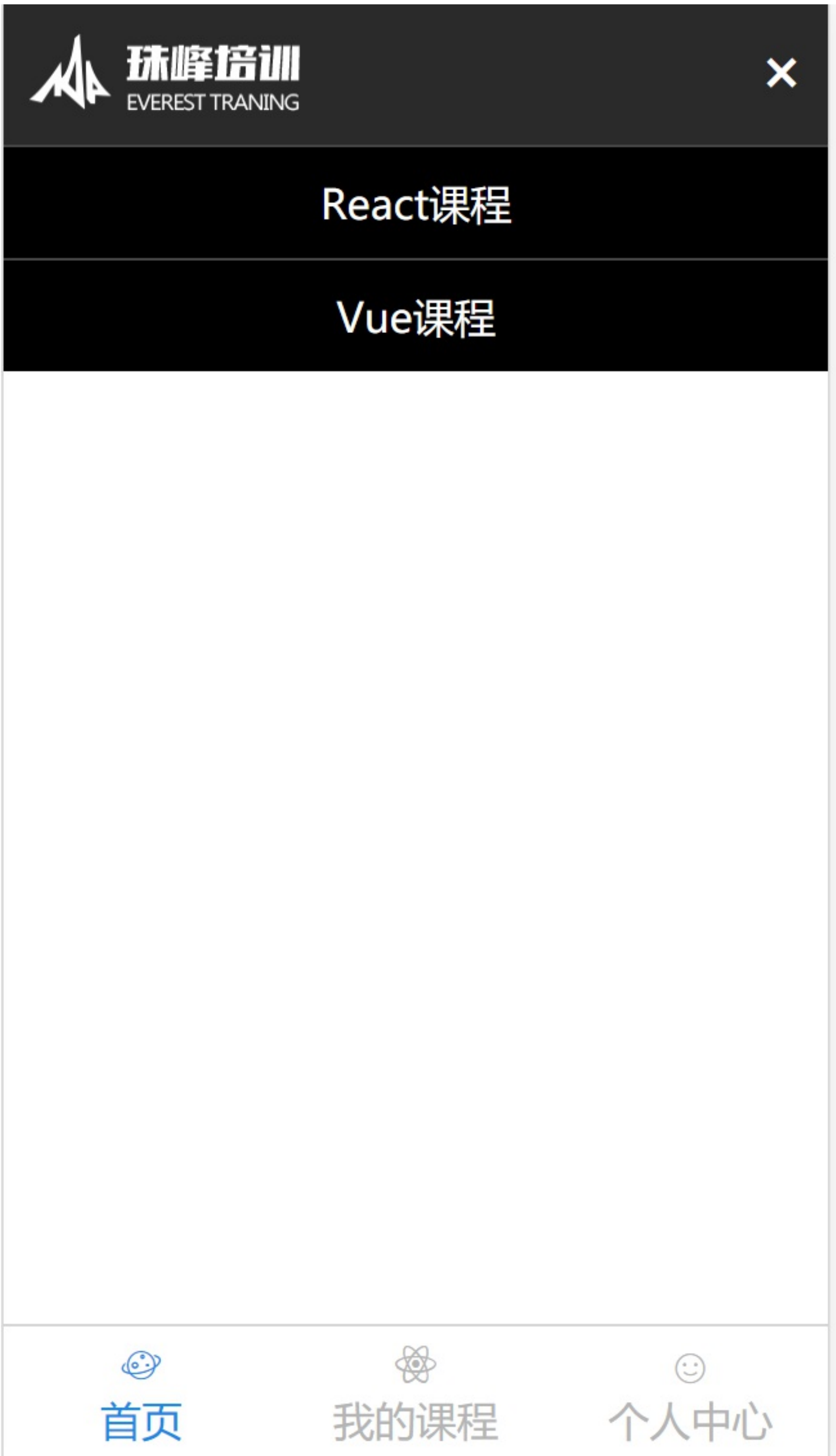
3.9 containers\Profile\index.tsx

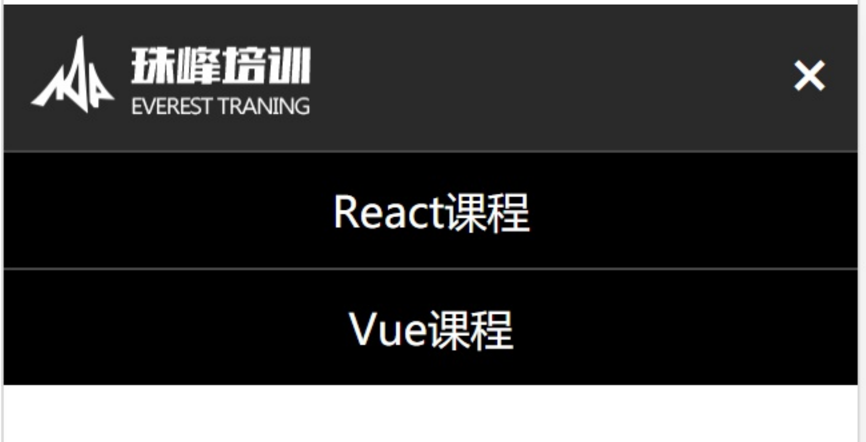
src\containers\Profile\index.tsx

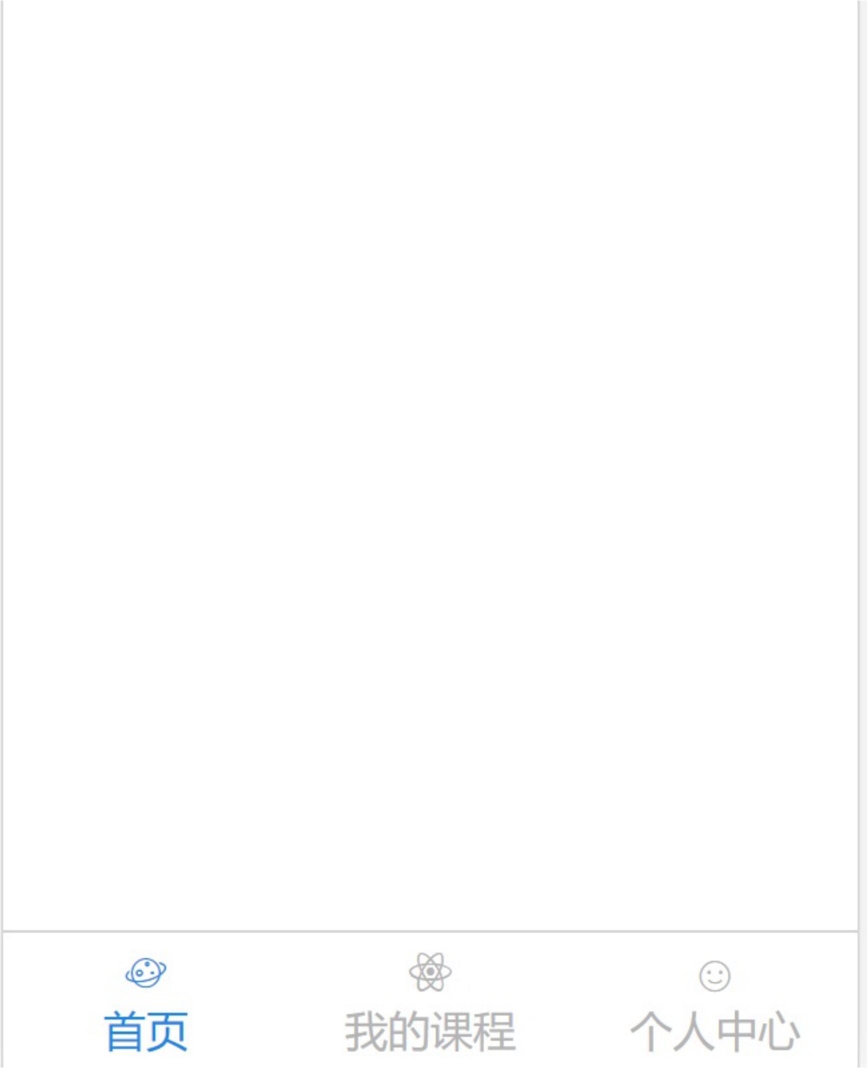
```
import * as React from 'react';
import { connect } from 'react-redux';
import './index.less';
interface Props{

}
class Profile extends React.Component<Props>{
  render(){
      return (
        <div >
          Profile
        div>
      )
  }
}
export default connect()(Profile);
```

4. 首页头部动画


珠峰培训
EVEREST TRANING
×
React课程
Vue课程
首页
我的课程
个人中心


珠峰培训
EVEREST TRANING
×
React课程
Vue课程



4.1 containers/Home/index.tsx

src/containers/Home/index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import HomeHeader from './components/Header';
import './index.less';
interface Props{}
class Home extends React.Component<Props>{
  render(){
      return (
        <React.Fragment>
          <HomeHeader/>
        React.Fragment>
      )
  }
}
export default connect()(Home);
```

4.2 webpack.config.js

```
{
    test: /\.(jpg|png|gif)$/,
    use:'url-loader'
}
```

src\containers\Home\components\Header\index.tsx

```
import * as React from 'react';
import './index.less'
import { CSSTransition,TransitionGroup } from 'react-transition-group';
declare function require(url: string): string;
const logo=require('../../../../images/logo.png');
import { Props } from '../../../../types';
export default class HomeHeader extends React.Component<Props> {
    state={
        showList:false
    }
    render() {
        return (
            <div className="home-header">
                <div className="header-menu">
                    <img src={logo} alt="logo" />
                    <div onClick={() => this.setState({showList:!this.state.showList})}>
                        {
                            this.state.showList?<i className="iconfont icon-guanbi">i>:<i className="iconfont icon-uilist">i>
                        }
                    div>
                div>
                <TransitionGroup>
                        {
                            this.state.showList&&<CSSTransition
                            timeout={500}
                            classNames="fade"
                              ><ul className="menu-list">
                                    <li data-category="1">React课程li>
                                    <li data-category="2">Vue课程li>
                                ul>CSSTransition>
                        }
                TransitionGroup>
            div>
        );
    }
}
```

src\containers\Home\components\Header\index.less

```
.home-header{
    height:56px;
    background-color:#2a2a2a ;
    width:100%;
    position: fixed;
    top:0;
    left:0;
    z-index: 10;
    .header-menu{
        height:56px;
        display: flex;
        flex-direction: row;
        justify-content: space-between;
        align-items: center;
        img{
            width:105px;
            height:30px;
            margin-left:10px;
        }
        i{
            color:#FFF;
            margin-right:10px;
        }
    }
    .menu-list{
        position: absolute;
        top:56px;
        left:0;
        width:100%;
        background-color: #000;
        li{
            width:100%;
            height:43px;
            line-height: 43px;
            border-top:1px solid #464646;
            color:#FFF;
            text-align: center;
            &.active{
                color:red;
            }
        }
    }
}
.fade-enter {
    opacity: 0.01;
}
.fade-enter-active {
    opacity: 1;
    transition: opacity 500ms ease-in;
}
.fade-exit {
    opacity: 1;
}
.fade-exit-active {
    opacity: 0.01;
    transition: opacity 500ms ease-in;
}
```

4.5 types\index.tsx

src\types\index.tsx

```
export interface Store{
    counter1: Counter1,
    counter2: Counter2
}
export interface Counter1{
    number: number
}
export interface Counter2{
    number: number
}
export interface Props{
    children?: any,
}
```

5. 当前分类存入redux

5.1 containers/Home/index.tsx

src/containers/Home/index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import Header from './components/Header';
import {Store} from '../../types';
import actions from '../../store/actions/home';
import './index.less';
interface Props{
  category:string,
  changeCategory:any
}
class Home extends React.Component<Props>{
  render(){
      return (
        <React.Fragment>
           <Header
            category={this.props.category}
            changeCategory={this.props.changeCategory}
          />
        React.Fragment>
      )
  }
}
export default connect(
  (state:Store)=>state.home,
  actions
)(Home);
```

5.2 store/action-types.tsx

src/store/action-types.tsx

```

export const CHANGE_CATEGORY = 'CHANGE_CATEGORY';
```

5.3 store/action-types.tsx

src/store/action-types.tsx

```

export const CHANGE_CATEGORY = 'CHANGE_CATEGORY';
```

5.4 store/reducers/index.tsx

src/store/reducers/index.tsx

```
import { combineReducers } from 'redux';
import history from '../history';
import home from './home';
import { connectRouter } from 'connected-react-router'
let reducers=combineReducers({
    router: connectRouter(history),
    home
});
export default reducers;
```

5.5 src\types\index.tsx

src\types\index.tsx

```
export interface Store{
    home:Home,
    router:any
}
export interface Home{
    category:string,

}
export interface Props{
    children?: any,
}
```

5.6 store\actions\home.tsx

src\store\actions\home.tsx

```
import * as types from '../action-types';
export interface changeCategory {
    type:string,
    payload:any
}

export type Action = changeCategory;
export default {
    changeCategory(category:string):changeCategory{
        return {type:types.CHANGE_CATEGORY,payload:category};
    }
}
```

5.7 store/actions/home.tsx

src/store/actions/home.tsx

```
import * as types from '../action-types';
export interface changeCategory {
    type:string,
    payload:any
}

export type Action = changeCategory;
export default {
    changeCategory(category:string):changeCategory{
        return {type:types.CHANGE_CATEGORY,payload:category};
    }
}
```

5.8 store/reducers/home.tsx

src/store/reducers/home.tsx

```
import {Home} from '../../types';
import {Action} from '../actions/home';
import * as types from '../action-types';
let initState:Home = {
  category:'all'
};
export default function(state:Home=initState,action:Action){
  switch(action.type){
      case types.CHANGE_CATEGORY:
        return {...state,category:action.payload};
      default:
        return state;
  }
}
```

5. 轮播图

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HTTP核心算法深入，浏览器原理解析 等你来学~
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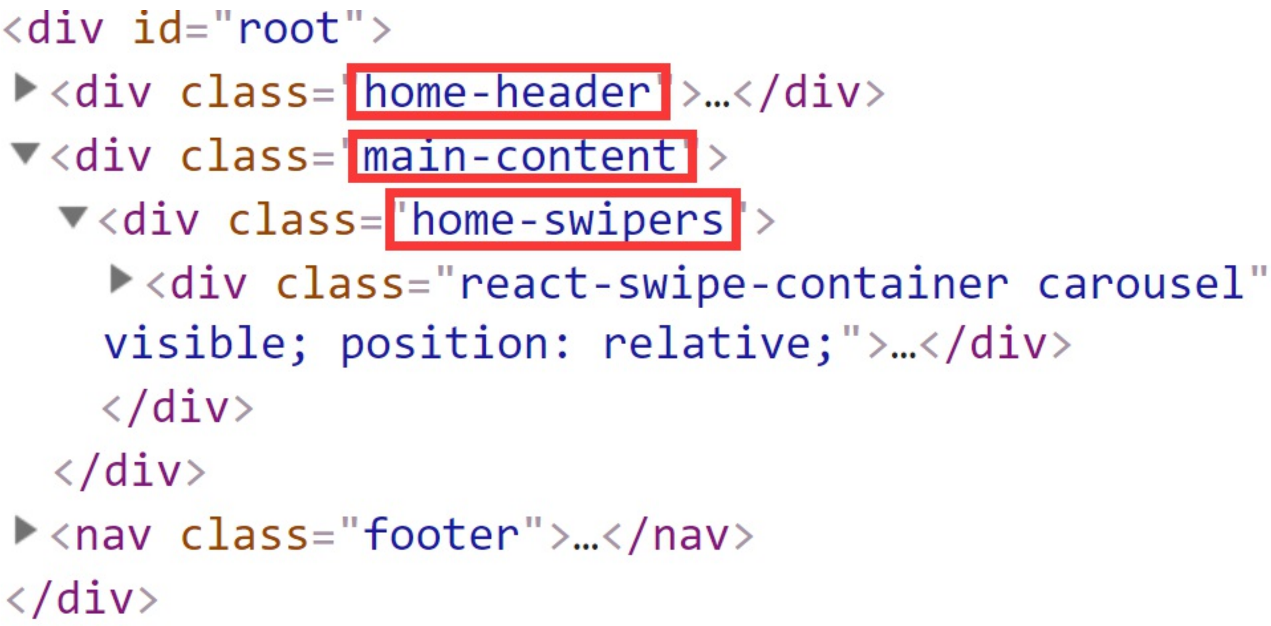
对标阿里p6-p7级前端高级工程师
最新开课时间：近期开课 火热报名中



```
<div id="root">
 ▶<div class="home-header">…</div>
 ▼<div class="main-content">
   ▼<div class="home-swipers">
     ▶<div class="react-swipe-container carousel" visible; position: relative;">…</div>
     </div>
   </div>
 ▶<nav class="footer">…</nav>
</div>
```

5.1 containers/Home/index.tsx

src/containers/Home/index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import Header from './components/Header';
import {Store} from '../../types';
import actions from '../../store/actions/home';
import Swiper from './components/Swiper';
import './index.less';
interface Props{
  category:string,
  changeCategory:any,
  sliders:string[],
  getSliders:any
}
class Home extends React.Component<Props>{
  mainContent:any
  componentDidMount(){
    this.props.getSliders();
  }
  render(){
      return (
        <React.Fragment>
           <Header
            category={this.props.category}
            changeCategory={this.props.changeCategory}
          />
           <div className="main-content" ref={ref=>this.mainContent=ref}>
             <Swiper
              sliders={this.props.sliders}
             />
           div>
        React.Fragment>
      )
  }
}
export default connect(
  (state:Store)=>state.home,
  actions
)(Home);
```

5.2 containers\Home\index.less

src\containers\Home\index.less

```
.main-content{
    position:fixed;
    top:56px;
    bottom:54px;
    width:100%;
    overflow-y: scroll;
    overflow-x: hidden;
}
```

5.3 store/action-types.tsx

src/store/action-types.tsx

```

export const SET_HOME_SLIDERS = 'SET_HOME_SLIDERS';
```

5.4 src/store/actions/home.tsx

src/store/actions/home.tsx

```
import * as types from '../action-types';
import {getSliders} from '../../api/home';
export interface changeCategory {
    type:string,
    payload:any
}

export type Action = changeCategory;
export default {
    changeCategory(category:string):changeCategory{
        return {type:types.CHANGE_CATEGORY,payload:category};
    },
    getSliders(){
        return function(dispatch:any,getState:any){
            getSliders().then((sliders:string[])=>{
                dispatch({
                    type:types.SET_HOME_SLIDERS,
                    payload:sliders
                });
            });
        }
    },
}
```

5.5 store/reducers/home.tsx

src/store/reducers/home.tsx

```
import {Home} from '../../types';
import {Action} from '../actions/home';
import * as types from '../action-types';
let initState:Home = {
  category:'all',
  sliders:[]
};
export default function(state:Home=initState,action:Action){
  switch(action.type){
      case types.CHANGE_CATEGORY:
        return {...state,category:action.payload};
      case types.SET_HOME_SLIDERS:
        return {...state,sliders:action.payload};
      default:
        return state;
  }
}
```

5.6 src/types/index.tsx

src/types/index.tsx

```
export interface Store{
    home:Home,
    router:any
}
export interface Home{
    category:string,
    sliders:string[]
}

export interface Props{
    children?: any,
}
```

5.7 Home\components\Swiper\index.tsx

src\containers\Home\components\Swiper\index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import './index.less';
import * as ReactSwipe from 'react-swipe';
interface IProps{
  sliders:any
}
interface IState{
  index:number
}
class Swiper extends React.Component<IProps,IState>{
  state = {index:0}
  render(){
      let swipeOptions = {
        auto: 1000,
        continuous: true
      }
      let swipers = (
        <ReactSwipe className="carousel" swipeOptions={swipeOptions}>
           {
             this.props.sliders.map((item:string,index:number)=>(
               <div key={index}>
                 <img src={item}/>
               div>
             ))
           }
           ReactSwipe>
      )
      return (
        <div className="home-swipers">
           {this.props.sliders.length>0&&swipers}
        div>
      )
  }
}
export default connect()(Swiper);
```

5.8 containers\Home\components\Swiper\index.less

src\containers\Home\components\Swiper\index.less

```
.home-swipers{
    position: relative;
    img{
        width:100%;
    }
    .dots{
        width:100%;
        position: absolute;
        bottom:10px;
        display:flex;
        flex-direction: row;
        justify-content: center;
        align-items: center;
        .dot{
            width:8px;
            height:8px;
            border-radius: 50%;
            background-color: #FFF;
            margin-left:5px;
            &.active{
                background-color: gray;
            }
        }
    }
}
```

5.9 api\index.tsx

src\api\index.tsx

```
const API_HOST='http://localhost:3000';
export const get=(url:string) => {
    return fetch(API_HOST+url,{
        method: 'GET',
        credentials: 'include',
        headers: {
            accept:'application/json'
        }
    }).then(res=>res.json());
}
export const post=(url:string,data:object) => {
    return fetch(API_HOST+url,{
        method: 'POST',
        body: JSON.stringify(data),
        headers: {
            'Content-Type': 'application/json',
            'Accept':'application/json'
        }
    });
}
```

5.10 api\home.tsx

src\api\home.tsx

```
import {get} from './index';
export const getSliders=() => {
    return get('/sliders');
}
```

5.11 server\app.js

server\app.js

```
let express=require('express');
let app=express();
app.use(function (req,res,next) {
    res.header('Access-Control-Allow-Methods','PUT,POST,GET,DELETE,OPTIONS');
    res.header('Access-Control-Allow-Origin','http://localhost:8080');
    res.header('Access-Control-Allow-Credentials','true');
    if (req.method === 'OPTIONS') {
        return res.sendStatus(200);
    }
    next();
});
app.listen(3000);
let sliders=require('./mock/sliders');
app.get('/sliders',function (req,res) {
    res.json(sliders);
});
```

5.12 server\mock\sliders.js

server\mock\sliders.js

```
module.exports = [
  'http://www.zhufengpeixun.cn/themes/jianmo2/images/reactnative.png',
  'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
  'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
  'http://www.zhufengpeixun.cn/themes/jianmo2/images/wechat.png',
  'http://www.zhufengpeixun.cn/themes/jianmo2/images/architect.jpg'
];
```

6. 课程列表

6.1 server/mock/lessons.js

server/mock/lessons.js

```
module.exports = [
  {
    id: 1,
    title: '1.React全栈架构',
    "video":"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥100.00元',
    category:'react'
  },
  {
    id: 2,
    title: '2.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥200.00元',
    category:'react'
  },
  {
    id: 3,
    title: '3.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥300.00元',
    category:'react'
  },
  {
    id: 4,
    title: '4.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥400.00元',
    category:'react'
  },
  {
    id: 5,
    title: '5.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥500.00元',
    category:'react'
  },
  {
    id: 6,
    title: '6.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥100.00元',
    category:'vue'
  },
  {
    id: 7,
    title: '7.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥200.00元',
    category:'vue'
  },
  {
    id: 8,
    title: '8.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥300.00元',
    category:'vue'
  },
  {
    id: 9,
    title: '9.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥400.00元',
    category:'vue'
  },
  {
    id: 10,
    title: '10.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥500.00元',
    category:'vue'
  },
  {
    id: 11,
    title: '11.React全栈架构',
    "video":"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥600.00元',
    category:'react'
  },
  {
    id: 12,
    title: '12.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥700.00元',
    category:'react'
  },
  {
    id: 13,
    title: '13.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥800.00元',
    category:'react'
  },
  {
    id: 14,
    title: '14.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥900.00元',
    category:'react'
  },
  {
    id: 15,
    title: '15.React全栈架构',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/react/img/react.jpg",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/react.png',
    price: '¥1000.00元',
    category:'react'
  },
  {
    id: 16,
    title: '16.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥600.00元',
    category:'vue'
  },
  {
    id: 17,
    title: '17.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥700.00元',
    category:'vue'
  },
  {
    id: 18,
    title: '18.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥800.00元',
    category:'vue'
  },
  {
    id: 19,
    title: '19.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥900.00元',
    category:'vue'
  },
  {
    id: 20,
    title: '20.Vue从入门到项目实战',
    video:"http://7xil5b.com1.z0.glb.clouddn.com/zhufengpeixun.mp4",
    poster:"http://www.zhufengpeixun.cn/vue/img/vue.png",
    url: 'http://www.zhufengpeixun.cn/themes/jianmo2/images/vue.png',
    price: '¥1000.00元',
    category:'vue'
  }
]
```

6.2 server/app.js

server/app.js

```
let express = require('express');
let bodyParser = require('body-parser');
let session = require('express-session');

let app = express();
app.use(bodyParser.urlencoded({extended:true}));
app.use(bodyParser.json());
app.use(session({
  secret:'zfpx',
  resave:true,
  cookie:{
   maxAge:60*60*1000
  },

  saveUninitialized:true
}));
app.listen(3000);
app.use(function(req,res,next){
  res.header('Access-Control-Allow-Origin','http://localhost:8080');
  res.header('Access-Control-Allow-Methods','GET,POST,OPTIOINS');
  res.header('Access-Control-Allow-Headers','Accept,Content-Type');
  res.header('Access-Control-Allow-Credentials','true');
  if(req.method == 'options'){
    res.end('');
  }else{
    next();
  }
});
let sliders = require('./mock/sliders');
app.get('/api/sliders',function(req,res){
  res.json(sliders);
});
let lessons = require('./mock/lessons');

app.get('/api/lessons/:category',function(req,res){
  let data = JSON.parse(JSON.stringify(lessons));
  let category = req.params.category;
  let offset = req.query.offset;
  let limit = req.query.limit;
  offset = isNaN(offset)?0:parseInt(offset);
  limit = isNaN(limit)?5:parseInt(limit);

  if(category != 'all'){
    data = data.filter(item=>item.category == category);
  }

  let list = data.slice(offset,offset+limit);
  let hasMore =   data.length > offset+limit;
  setTimeout(function(){
    res.json({code:0,data:{list,hasMore}});

  },1000);
});
```

6.3 api/home.tsx

src/api/home.tsx

```
import {get} from './index';
export const getSliders = ()=>{
  return get('/api/sliders');
 }

 export const getLessons = (category:string,offset:number,limit:number)=>{
   return get(`/api/lessons/${category}?offset=${offset}&limit=${limit}`);
 }
```

src/containers/Home/components/Header/index.tsx

```
import * as React from 'react';
import './index.less'
import { CSSTransition,TransitionGroup } from 'react-transition-group';
declare function require(url: string): string;
const logo=require('../../../../images/logo.png');
interface Props{
    category:string,
    changeCategory:any,
    refreshLessons:any
}
interface IState{
      showList:any
}
export default class HomeHeader extends React.Component<Props,IState> {
    state={
        showList:false,
    }
    changeCategory = (event:any)=>{
        let category =  event.target.dataset.category;
        this.setState({showList:false},()=>{
            this.props.changeCategory(category);
            this.props.refreshLessons();
        });
    }
    render() {
        let {category} = this.props;
        return (
            <div className="home-header">
                <div className="header-menu">
                    <img src={logo} alt="logo" />
                    <div onClick={() => this.setState({showList:!this.state.showList})}>
                        {
                            this.state.showList?<i className="iconfont icon-guanbi">i>:<i className="iconfont icon-uilist">i>
                        }
                    div>
                div>
                <TransitionGroup>
                    {
                        this.state.showList&&<CSSTransition
                        timeout={500}
                        classNames="fade"
                        >
                            <ul className="menu-list" onClick={this.changeCategory}>
                                <li data-category="react"  className={category=='react'?'active':''}>Reactli>
                                <li data-category="vue"  className={category=='vue'?'active':''}>Vueli>
                            ul>
                        CSSTransition>
                    }
                TransitionGroup>
            div>
        );
    }
}
```

6.5 containers/Home/index.tsx

src/containers/Home/index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import Header from './components/Header';
import {Store} from '../../types';
import actions from '../../store/actions/home';
import Swiper from './components/Swiper';
import List from './components/List';
import './index.less';
interface Props{
  category:string,
  changeCategory:any,
  sliders:string[],
  getSliders:any,
  lessons:any,
  getLessons:any,
  refreshLessons:any
}
class Home extends React.Component<Props>{
  mainContent:any
  componentDidMount(){
    this.props.getSliders();
    this.props.getLessons();
  }
  render(){
      return (
        <React.Fragment>
           <Header
            category={this.props.category}
            changeCategory={this.props.changeCategory}
            refreshLessons={this.props.refreshLessons}
          />
           <div className="main-content" ref={ref=>this.mainContent=ref}>
             <Swiper
              sliders={this.props.sliders}
             />
              <List
               lessons={this.props.lessons}
               getLessons={this.props.getLessons}
             />
           div>
        React.Fragment>
      )
  }
}
export default connect(
  (state:Store)=>state.home,
  actions
)(Home);
```

6.6 store/action-types.tsx

src/store/action-types.tsx

```

export const GET_HOME_LESSONS_LOADING = 'GET_HOME_LESSONS_LOADING';

export const SET_HOME_LESSONS = 'SET_HOME_LESSONS';

export const REFRESH_HOME_LESSONS_LOADING = 'REFRESH_HOME_LESSONS_LOADING';
export const REFRESH_HOME_LESSONS = 'REFRESH_HOME_LESSONS';
```

6.7 store/actions/home.tsx

src/store/actions/home.tsx

```
import * as types from '../action-types';
import {getSliders,getLessons} from '../../api/home';
export interface changeCategory {
    type:string,
    payload:any
}

export type Action = changeCategory;
export default {
    changeCategory(category:string):changeCategory{
        return {type:types.CHANGE_CATEGORY,payload:category};
    },
    getSliders(){
        return function(dispatch:any,getState:any){
            getSliders().then((sliders:string[])=>{
                dispatch({
                    type:types.SET_HOME_SLIDERS,
                    payload:sliders
                });
            });
        }
    },
    getLessons(){
        return function(dispatch:any,getState:any){
           let {category,lessons:{hasMore,loading,offset,limit}} = getState().home;
           if(hasMore && !loading){
             dispatch({type:types.GET_HOME_LESSONS_LOADING,payload:true});
             getLessons(category,offset,limit).then(result =>{
                 let {code,data,error} = result;
                 if(code ==0){
                    dispatch({type:types.SET_HOME_LESSONS,payload:data});
                 }else{
                    dispatch({type:types.GET_HOME_LESSONS_LOADING,payload:false});
                    alert(error);
                 }
             });
           }
        }
    },

    refreshLessons(){
        return function(dispatch:any,getState:any){
           let {category,lessons:{hasMore,loading,offset,limit}} = getState().home;
           if(!loading){
             dispatch({type:types.REFRESH_HOME_LESSONS_LOADING,payload:true});
             getLessons(category,0,limit).then(result =>{
                 let {code,data,error} = result;
                 if(code ==0){
                    dispatch({type:types.REFRESH_HOME_LESSONS,payload:data});
                 }else{
                    dispatch({type:types.REFRESH_HOME_LESSONS_LOADING,payload:false});
                    alert(error);
                 }
             });
           }
        }
    }
}
```

6.8 store/reducers/home.tsx

src/store/reducers/home.tsx

```
import {Home} from '../../types';
import {Action} from '../actions/home';
import * as types from '../action-types';
let initState:Home = {
  category:'all',
  sliders:[],
  lessons:{
    list:[],
    hasMore:true,
    loading:false,
    offset:0,
    limit:5
  }
};
export default function(state:Home=initState,action:Action){
  switch(action.type){
      case types.CHANGE_CATEGORY:
        return {...state,category:action.payload};
      case types.SET_HOME_SLIDERS:
        return {...state,sliders:action.payload};
        case types.GET_HOME_LESSONS_LOADING:
        return {...state,lessons:{...state.lessons,loading:action.payload}};
      case types.SET_HOME_LESSONS:
        return {...state,lessons:{
          ...state.lessons,
          list:[...state.lessons.list,...action.payload.list],
          hasMore:action.payload.hasMore,
          loading:false,
          offset:state.lessons.offset+action.payload.list.length
        }};
      case types.REFRESH_HOME_LESSONS_LOADING:
        return {...state,lessons:{
          ...state.lessons,
          list:[],
          offset:0,
          hasMore:true,
          loading:action.payload
        }};
      case types.REFRESH_HOME_LESSONS:
        return {...state,lessons:{
          ...state.lessons,
          list:action.payload.list,
          hasMore:action.payload.hasMore,
          loading:false,
          offset:action.payload.list.length
        }};
      default:
        return state;
  }
}
```

6.9 types/index.tsx

src/types/index.tsx

```
export interface Store{
    home:Home,
    router:any
}
export interface Home{
    category:string,
    sliders:string[],
    lessons:Lessons
}

export interface Props{
    children?: any,
}

export interface Lessons{
    list:any[],
    hasMore:boolean,
    offset:number,
    limit:number,
    loading:boolean
}
```

6.10 components\Loading\index.tsx

src\components\Loading\index.tsx

```
import * as React from 'react';
import './index.less';
declare function require(url:string):string;
let loading = require('../../images/loading.gif');

export default ()=> (

)
```

6.11 components\Loading\index.less

src\components\Loading\index.less

```
.loading{
    width:100%;
    height:37px;
    line-height: 37px;
    text-align: center;
    img{
        width:37px;
        height:37px;
    }
}
```

6.12 Home\components\List\index.tsx

src\containers\Home\components\List\index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import Loading from '../../../../components/Loading';
import {Link} from 'react-router-dom';
import './index.less';
interface Props{
  lessons:any,
  getLessons:any
}
class List extends React.Component<Props>{
  render(){
      let {list,hasMore,loading} = this.props.lessons;
      return (
        <div className="home-lessons">
          <div className="all-lessons">
              <i className="iconfont icon-kecheng-copy">i>
              <span>全部课程span>
          div>
          {
           list.length>0?list.map((item:any,index:number):any=>(
            <Link key={index} to={{pathname:`/detail/${item.id}`,state:item}}>
               <div className="lesson" >
                 <img src={item.poster} alt={item.title}/>
                 <p>{item.title}p>
                 <p>{item.price}p>
              div>
            Link>
           )):<div className="nodata">暂无数据div>
          }
          {
            loading?<Loading/>:<div className="load-more" onClick={this.props.getLessons}>加载更多div>
          }
        div>
      )
  }
}
export default connect()(List);
```

6.13 Home\components\List\index.less

src\containers\Home\components\List\index.less

```
.home-lessons{
    width:100%;
    box-sizing: border-box;
    padding: 7.5px;
    .all-lessons{
        margin:10px 0;
        span{
            margin-left:8px;
        }
    }
    .nodata{
        width:100%;
        height:35px;
        line-height: 35px;
        border-radius: 5px;
        color:#000;
        text-align: center;
    }
    .lesson{
        width:100%;
        border-radius: 8px;
        margin-bottom: 17px;
        box-shadow: 1px 1px 3px 2px #c5c5c5,-1px -1px 3px 2px #c5c5c5;
        overflow: hidden;
        img{
            width:100%;
            height:140px;
            border-radius: 8px 8px 0 0;
        }
        p{
            height:37px;
            text-align: center;
            line-height: 37px;
            &:nth-child(2){
                color:#777777;
            }
            &:nth-child(3){
                color:#ed3a3a;
            }
        }
    }
    .load-more{
        width:100%;
        height:35px;
        line-height: 35px;
        border-radius: 5px;
        color:#FFF;
        background-color: green;
        text-align: center;
    }
}
```

7. 上拉加载和记录滚动条位置

7.1 src/utils.tsx

```
export function loadMore(element:any,callback:any){

    let timer:any;
   element.addEventListener('scroll',function(){
       timer&&clearTimeout(timer);
       timer = setTimeout(function(){
        let clientHeight = element.clientHeight;
        let scrollTop = element.scrollTop;
        let scrollHeight = element.scrollHeight;
        if(clientHeight + scrollTop+10 >= scrollHeight){
           callback();
        }
       },300);

   });
}

export function downRefresh(element:any,callback:any){
   let startY:number;
   let distance:number;
   let originalTop = element.offsetTop;
   element.addEventListener('touchstart',function(event:any){
       if(element.offsetTop == originalTop &&element.scrollTop == 0){
        startY = event.touches[0].pageY;
        element.addEventListener('touchmove',touchMove);
        element.addEventListener('touchend',touchEnd);
       }
   });
   function touchMove(event:any){
     let pageY  = event.touches[0].pageY;
     if(pageY>startY){
        distance = pageY - startY;
        element.style.top = (originalTop+distance)+'px';
     }else{
        element.removeEventListener('touchmove',touchMove);
        element.removeEventListener('touchend',touchEnd);
     }
   }
   function touchEnd(event:any){
    element.removeEventListener('touchmove',touchMove);
    element.removeEventListener('touchend',touchEnd);
    let timer = setInterval(function(){
        if(distance < 1){
            element.style.top =  originalTop+'px';
            clearInterval(timer);
        }else{
            element.style.top =  (originalTop+--distance)+'px';
        }
    },13);
    if(distance>10){
        callback();
    }
   }

}

export const store = {
    set(key:string,val:string){
        sessionStorage.setItem(key,val);
    },
    get(key:string){
        return sessionStorage.getItem(key);
    }
}
```

7.2 Home/index.tsx

src/containers/Home/index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import Header from './components/Header';
import {Store} from '../../types';
import actions from '../../store/actions/home';
import Swiper from './components/Swiper';
import List from './components/List';
import {loadMore,downRefresh,store} from '../../utils';
import './index.less';
interface Props{
  category:string,
  changeCategory:any,
  sliders:string[],
  getSliders:any,
  lessons:any,
  getLessons:any,
  refreshLessons:any
}
class Home extends React.Component<Props>{
  mainContent:any
  componentDidMount(){
    if(this.props.sliders.length >0){
      this.mainContent.scrollTop = store.get('homeScrollTop');
    }else{
      this.props.getSliders();
      this.props.getLessons();
    }

    loadMore(this.mainContent,this.props.getLessons);
    downRefresh(this.mainContent,this.props.refreshLessons);
  }

  componentWillUnmount(){
    store.set('homeScrollTop',this.mainContent.scrollTop);
  }
  render(){
      return (
        <React.Fragment>
           <Header
            category={this.props.category}
            changeCategory={this.props.changeCategory}
            refreshLessons={this.props.refreshLessons}
          />
           <div className="main-content" ref={ref=>this.mainContent=ref}>
             <Swiper
              sliders={this.props.sliders}
             />
              <List
               lessons={this.props.lessons}
               getLessons={this.props.getLessons}
             />
           div>
        React.Fragment>
      )
  }
}
export default connect(
  (state:Store)=>state.home,
  actions
)(Home);
```

7.3 Home/components/List/index.tsx

src/containers/Home/components/List/index.tsx

```
{
   loading?<Loading/>:( !hasMore&&<div className="load-more">我是有底线的div>)
}
```

8.课程详情页

8.1 src/containers/App.tsx

src/containers/App.tsx

```
import {Route,Link,Switch} from 'react-router-dom';
import * as React from 'react';
import Tab from '../components/Tab';
import Home from './Home';
import Mime from './Mime';
import Profile from './Profile';
import Detail from './Detail';
import '../common/index.less';
interface IProps{
    children:any
}
export default class App extends React.Component<IProps>{
  render(){
     return (
        <React.Fragment>
            <Route exact path="/" component={Home}/>
            <Route path="/mime" component={Mime}/>
            <Route path="/profile" component={Profile}/>
            <Route path="/detail/:id" component={Detail} />
            <Tab>Tab>
        React.Fragment>
     )
  }
}
```

src\components\NavHeader\index.tsx

```
import * as React from 'react';
import './index.less';
interface Props{
    history: any,
    title: string
}
export default class NavHeader extends React.Component<Props>{
    render(){
        return (
            <div className="navheader">
              <i
              onClick={()=>this.props.history.goBack()}
              className="iconfont icon-fanhui">i>
                {this.props.title}
            div>
        )
    }
}
```

src\components\NavHeader\index.less

```
.navheader{
    height:56px;
    background-color: #000;
    color:#FFF;
    line-height: 56px;
    text-align: center;
    position: fixed;
    top:0;
    left:0;
    width:100%;
    i{
        position: absolute;
        left:10px;
    }
}
```

8.4 containers\Detail\index.tsx

src\containers\Detail\index.tsx

```
import * as React from 'react';
import NavHeader from '../../components/NavHeader';
import {Redirect} from 'react-router-dom';
import './index.less';
interface Props{
    location: any,
    history:any,
    match:any
}
export default class Detail extends React.Component<Props>{
    state = {
        lesson:this.props.location.state||{}
    }

    render(){
        let { lesson }=this.state;
        return (
            lesson?(
                <div className="lesson-detail">
                    <NavHeader title="课程详情" history={this.props.history} />
                    <img src={lesson.poster}/>
                    <p>{lesson.title}p>
                    <p>{lesson.price}p>
                div>
            ):<Redirect to="/"/>

        )
    }
}
```

8.5 containers\Detail\index.less

src\containers\Detail\index.less

```
.lesson-detail{
    padding-top:56px;
    img{
        height:167px;
        width:100%;
    }
    p{
       text-align: center;
       line-height:34px;
       height:34px;
       &:nth-child(2){
           color:#CCC;
       }
       &:nth-child(2){
        color:#F00;
    }
    }
}
```

9.个人中心

9.1 Profile\index.tsx

src\containers\Profile\index.tsx

```
import * as React from 'react';
import './index.less'
import { Link } from 'react-router-dom';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
export default class Profile extends React.Component{
    render() {
        return (
            <div className="profile">
                <div className="profile-bg">
                    <img src={profile}/>
                    <div className="login-btn">
                        <Link to="/login">登录Link>
                    div>
                div>
            div>
        )
    }
}
```

9.2 containers\Profile

src\containers\Profile\index.less

```
.profile{
    .profile-bg{
        width:100%;
        height:223px;
        background-image: url(../../images/login_bg.png);
        background-size:contain;
        display:flex;
        flex-direction: column;
        justify-content: center;
        align-items: center;
        img{
            width:60px;
            height:60px;
            border-radius:50%;
        }
        .login-btn{
            width:60px;
            height:25px;
            border-radius: 10px;
            background:#FFF;
            color:#188AE4;
            line-height:25px;
            text-align:center;
            font-size:13px;
            font-weight: bold;
            margin-top:10px;
            a{
                text-decoration: none;
                &:link{
                    text-decoration: none;
                    color:#188AE4;
                }
            }
        }
    }
}
```

10.登录

10.1 src/containers/App.tsx

src/containers/App.tsx

```
+ import Login from './Login';
+
```

10.2 containers\Login\index.tsx

src\containers\Login\index.tsx

```
import * as React from 'react';
import './index.less'
import {Link} from 'react-router-dom';
import NavHeader from '../../components/NavHeader';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
interface Props{
    history:any
}
export default class Login extends React.Component<Props>{
    render() {
        return (
            <div className="login-panel">
                <NavHeader title="登录" history={this.props.history} />
                <div className="login-logo">
                  <img  src={profile} />
                div>
                <input type="text" placeholder="手机号" />
                <input type="text" placeholder="密码" />
                <Link to="/reg">前往注册Link>
                <button>登录button>
            div>
        )
    }
}
```

10.3 containers\Login\index.less

src\containers\Login\index.less

```
.login-panel{
    padding:56px 17px;
    display:flex;
    flex-direction: column;
    position: absolute;
    top:0;
    left:0;
    right:0;
    bottom:0;
    background:#FFF;
    z-index: 20;

    .login-logo{
        display:flex;
        height:223px;
        width:100%;
        justify-content: center;
        align-items: center;
        img{
            height:62px;
            width:62px;
        }
    }
    input{
        width:100%;
        outline:none;
        border:1px solid #CCC;
        border-radius: 5px;
        height:42px;
        margin-bottom:20px;
        padding-left:10px;
        box-sizing: border-box;
    }
    a{
        color:#188AE4;
        margin-bottom:20px;
    }
    button{
        width:100%;
        border:none;
        outline:none;
        background-color: #188AE4;
        color:#FFF;
        height:40px;
        line-height: 40px;
        text-align:center;
        font-size:16px;
        border-radius:5px;
    }
}
```

11.注册

11.1 src/containers/App.tsx

src/containers/App.tsx

```
+ import Reg from './Reg';
+
```

11.2 Reg\index.tsx

src\containers\Reg\index.tsx

```
import * as React from 'react';
import './index.less'
import {Link} from 'react-router-dom';
import NavHeader from '../../components/NavHeader';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
interface Props{
    history:any
}
export default class Reg extends React.Component<Props>{
    render() {
        return (
            <div className="login-panel">
                <NavHeader title="注册" history={this.props.history}/>
                <div className="login-logo">
                  <img  src={profile} />
                div>
                <input type="text" placeholder="手机号" />
                <input type="text" placeholder="密码" />
                <Link to="/login">前往登录Link>
                <button>注册button>
            div>
        )
    }
}
```

11.3 Reg\index.less

src\containers\Reg\index.less

```
.login-panel{
    padding:56px 17px;
    display:flex;
    flex-direction: column;
    position: absolute;
    top:0;
    left:0;
    right:0;
    bottom:0;
    background:#FFF;
    z-index: 20;

    .login-logo{
        display:flex;
        height:223px;
        width:100%;
        justify-content: center;
        align-items: center;
        img{
            height:62px;
            width:62px;
        }
    }
    input{
        width:100%;
        outline:none;
        border:1px solid #CCC;
        border-radius: 5px;
        height:42px;
        margin-bottom:20px;
        padding-left:10px;
        box-sizing: border-box;
    }
    a{
        color:#188AE4;
        margin-bottom:20px;
    }
    button{
        width:100%;
        background-color: #188AE4;
        color:#FFF;
        height:40px;
        line-height: 40px;
        text-align:center;
        font-size:16px;
        border-radius:5px;
    }
}
```

12.实现会话

12.1 server/app.js

server/app.js

```
let express=require('express');
let bodyParser = require('body-parser');
let session=require('express-session');
let app=express();
app.use(bodyParser.json());
app.use(function (req,res,next) {
    res.header('Access-Control-Allow-Methods','PUT,POST,GET,DELETE,OPTIONS');
    res.header('Access-Control-Allow-Headers','Content-Type');
    res.header('Access-Control-Allow-Origin','http://localhost:8080');
    res.header('Access-Control-Allow-Credentials','true');
    if (req.method === 'OPTIONS') {
        return res.sendStatus(200);
    }
    next();
});
app.use(session({
    resave:true,
    secret:'zfpx',
    saveUninitialized:true
}));
app.listen(3000);
let sliders=require('./mock/sliders');
app.get('/api/sliders',function (req,res) {
    res.json(sliders);
});
let lessons = require('./mock/lessons');

app.get('/api/lessons/:category',function(req,res){
   let category = req.params.category;
   let {offset,limit} = req.query;
   offset = isNaN(offset)?0:parseInt(offset);
   limit = isNaN(limit)?5:parseInt(limit);
   let list = JSON.parse(JSON.stringify(lessons));
   if(category!='all'){
     list = list.filter(item=>item.category==category);
   }
   let total = list.length;

   list = list.slice(offset,offset+limit);

   setTimeout(function(){
    res.json({
      code:0,
      data:{
        list,
        hasMore:total>offset+limit
      }
    });
   },1000);
});

let users = [];
app.post('/api/reg',function(req,res){
   let body = req.body;
   users.push(body);
    res.json({
       code:0,
       success:'注册成功'
   })
});

app.post('/api/login',function(req,res){
    let body = req.body;
    let user = users.find(item=>item.username == body.username && item.password == body.password);
    if(user){
        req.session.user = user;
        res.json({
            user,
            code:0,
            success:'登录成功'
        });
    }else{
        res.json({
            code:1,
            error:'登录失败'
        });
    }
});
app.get('/api/validate',function(req,res){
  let user = req.session.user;
  if(user){
    res.json({
        code:0,
        success:'此用户已经登录',
        user
    });
  }else{
      res.json({
        code:1,
        error:'此用户未登录',
    });
  }
});
```

12.2 src/api/index.tsx

src/api/index.tsx

```
const API_HOST='http://localhost:3000';
export const get=(url:string) => {
    return fetch(API_HOST+url,{
        method: 'GET',
        credentials: 'include',
        headers: {
            accept:'application/json'
        }
    }).then(res=>res.json());
}
export const post=(url:string,data:object) => {
    return fetch(API_HOST+url,{
        method: 'POST',
        body: JSON.stringify(data),
        headers: {
            'Content-Type': 'application/json',
            'Accept':'application/json'
        }
    }).then(res=>res.json());
}
```

12.3 Login/index.tsx

src/containers/Login/index.tsx

```
import * as React from 'react';
import './index.less'
import {Link} from 'react-router-dom';
import NavHeader from '../../components/NavHeader';
import { connect } from 'react-redux';
import { Store } from '../../types';
import actions from '../../store/actions/session';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
interface Props{
    history: any,
    login:any
}
class Login extends React.Component<Props>{
    username:any
    password:any
    handleLogin = ()=>{
        let username = this.username.value;
        let password = this.password.value;
        this.props.login({username,password});
    }
    render() {
        return (
            <div className="login-panel">
                <NavHeader title="登录" history={this.props.history} />
                <div className="login-logo">
                  <img  src={profile} />
                div>
                <input ref={input=>this.username=input} type="text" placeholder="手机号" />
                <input ref={input=>this.password=input} type="text" placeholder="密码" />
                <Link to="/reg">前往注册Link>
                <button onClick={this.handleLogin}>登录button>
            div>
        )
    }
}

export default connect(
    (state:Store)=>state.session,actions
)(Login);
```

12.4 Profile/index.tsx

src/containers/Profile/index.tsx

```
import * as React from 'react';
import './index.less'
import { Link } from 'react-router-dom';
import { Store } from '../../types';
import { connect } from 'react-redux';
import actions from '../../store/actions/session';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
interface Props{
    user:any
}
class Profile extends React.Component<Props>{
    render() {
        return (
            <div className="profile">
                <div className="profile-bg">
                    <img src={profile}/>
                    <div className="login-btn">
                    {this.props.user?this.props.user.username:<Link to="/login">登录Link>}
                    div>
                div>
            div>
        )
    }
}
export default connect(
    (state:Store)=>state.session,actions
)(Profile);
```

12.5 containers/Reg/index.tsx

src/containers/Reg/index.tsx

```
import * as React from 'react';
import './index.less'
import {Link} from 'react-router-dom';
import NavHeader from '../../components/NavHeader';
import { connect } from 'react-redux';
import { Store } from '../../types';
import actions from '../../store/actions/session';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
interface Props{
    history: any,
    reg:any
}
class Login extends React.Component<Props>{
    username: any
    password: any
    handleReg = ()=>{
        let username = this.username.value;
        let password = this.password.value;
        this.props.reg({username,password});
    }
    render() {
        return (
            <div className="login-panel">
                <NavHeader title="注册" history={this.props.history}/>
                <div className="login-logo">
                  <img  src={profile} />
                div>
                <input ref={input=>this.username=input}  type="text" placeholder="手机号" />
                <input ref={input=>this.password=input} type="text" placeholder="密码" />
                <Link to="/login">前往登录Link>
                <button   onClick={this.handleReg} >注册button>
            div>
        )
    }
}

export default connect(
    (state:Store)=>state.session,actions
)(Login);
```

12.6 store/action-types.tsx

src/store/action-types.tsx

```

export const REG = 'REG';

export const LOGIN = 'LOGIN';

export const LOGOUT = 'LOGOUT';

export const CLEAR_MESSAGES = 'CLEAR_MESSAGES';
export const VALIDATE = 'VALIDATE';
```

12.7 store/reducers/index.tsx

src/store/reducers/index.tsx

```
import { combineReducers } from 'redux';
import history from '../history';
import home from './home';
import session from './session';
import { connectRouter } from 'connected-react-router'
let reducers=combineReducers({
    router: connectRouter(history),
    home,
    session,
});
export default reducers;
```

12.8 types/index.tsx

src/types/index.tsx

```
export interface Store{
    home:Home,
    session:Session,
    router:any
}
export interface Session{
    user?: any,
    error: any,
    success:any
}
export interface Home{
    category:string,
    sliders:string[],
    lessons:Lessons
}

export interface Props{
    children?: any,
}

export interface Lessons{
    list:any[],
    hasMore:boolean,
    offset:number,
    limit:number,
    loading:boolean
}
```

12.9 src/api/session.tsx

src/api/session.tsx

```
import {get,post} from './index';
//注册
export function reg(user:any){
  return post('/api/reg',user);
}

export function login(user:any){
  return post('/api/login',user);
}

export function logout(){
  return get('/api/logout');
}

export function validate(){
  return get('/api/validate');
}
```

12.10 store/actions/session.tsx

src/store/actions/session.tsx

```
import * as types from '../action-types';
import { reg,login,logout,validate } from '../../api/session';
import {push} from 'connected-react-router';
export type Action=any;
interface Res{
    code:any,success:any,error:any
}
export default {
    reg(user:any) {
        return function (dispatch:any,getState:any) {
            reg(user).then((result) => {
                let { code,success,error }=result;
                dispatch({
                    type: types.REG,
                    payload: { success,error }
                });
                if (code==0) {
                    dispatch(push('/login'));
                }
            })
        }
    },
    login(user:any) {
        return function (dispatch:any,getState:any) {
            login(user).then(result => {
                let { code,success,error,user }=result;
                dispatch({
                    type: types.LOGIN,
                    payload: { success,error,user }
                });
                if (code==0) {
                    dispatch(push('/profile'));
                }
            })
        }
    },
    logout() {
        return function (dispatch:any,getState:any) {
            logout().then(result => {
                let { code,success,error }=result;
                dispatch({
                    type: types.LOGOUT,
                    payload: { success,error }
                });
                dispatch(push('/login'));
            });
        }
    },
    clearMessages() {
        return {
            type: types.CLEAR_MESSAGES
        }
    },
    validate() {
        return function (dispatch:any,getState:any) {
            validate().then(result => {
                let { code,success,error,user }=result;
                dispatch({
                    type: types.VALIDATE,
                    payload: { success,error,user }
                });
            });
        }
    }
}
```

12.11 store/reducers/session.tsx

src/store/reducers/session.tsx

```
import * as types from '../action-types';
import { Session } from '../../types';

let initState:Session = {
  error: '',
  success: '',

}
export default function (state:Session = initState, action:any) {
  switch (action.type) {
    case types.REG:

     return {
       ...action.payload
    };
    case types.LOGIN:
      return {
        ...action.payload
      };
    case types.LOGOUT:
      return {
        ...action.payload
      };
    case types.CLEAR_MESSAGES:
      return {
        ...state,
        error: '',
        success:''
      };
    case types.VALIDATE:
      return {
        ...state,
        ...action.payload
      };
    default:
      return state;
  }
}
```

13.受保护的路由

13.1 src/containers/App.tsx

src/containers/App.tsx

```
import {Route,Link,Switch} from 'react-router-dom';
import * as React from 'react';
import Tab from '../components/Tab';
import Home from './Home';
import Mime from './Mime';
import Profile from './Profile';
import Detail from './Detail';
import Login from './Login';
import Reg from './Reg';
import '../common/index.less';
import PrivateRoute from './PrivateRoute';

interface IProps{
    children:any
}
export default class App extends React.Component<IProps>{
  render(){
     return (
        <React.Fragment>
            <Switch>
              <Route exact path="/" component={Home}/>
              <Route path="/mime" component={Mime}/>
              <Route path="/detail/:id" component={Detail} />
              <Route path="/login" component={Login}/>
              <Route path="/reg" component={Reg}/>
              <PrivateRoute pathname={window.location.pathname} path="/profile" component={Profile} />
            Switch>
            <Tab>Tab>
        React.Fragment>
     )
  }
}
```

13.2 src/containers/Profile/index.tsx

src/containers/Profile/index.tsx

```
import * as React from 'react';
import './index.less'
import { Link } from 'react-router-dom';
import { connectRouter } from 'connected-react-router';
import { connect } from 'react-redux';
import { Store } from '../../types';
declare function require(url: string): string;
let profile=require('../../images/profile.png');
interface Props{
    user:any
}
 class Profile extends React.Component<Props>{
    render() {
        return (
            <div className="profile">
                <div className="profile-bg">
                    <img src={profile}/>
                    <div className="login-btn">
                    {this.props.user?this.props.user.username:<Link to="/login">登录Link>}
                    div>
                div>
            div>
        )
    }
}
export default connect(
    (state:Store)=>state.session
)(Profile);
```

13.3 containers\PrivateRoute\index.tsx

src\containers\PrivateRoute\index.tsx

```
import * as React from 'react';
import {Route,Redirect} from 'react-router-dom';
import { connect } from 'react-redux';
import { Store } from '../../types';
interface Props{
    path: any,
    component: any,
    user:any,
    pathname?:string
}
class PrivateRoute extends React.Component<Props> {
    render() {
        let { path,component: Comp,user }=this.props;
        return <Route path={path} render={(props) => user? <Comp {...props} />:<Redirect to="/login" />} />;
    }
}
export default connect(
    (state:Store) => state.session
)(PrivateRoute)
```

14.点状导航

14.1 containers/Home/components/Swiper/index.tsx

src/containers/Home/components/Swiper/index.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import './index.less';
import * as ReactSwipe from 'react-swipe';
import SwiperItems from './SwiperItems';
interface IProps{
  sliders:any
}
interface IState{
  index:number
}
class Swiper extends React.Component<IProps,IState>{
  state = {index:0}
  changeIndex = (index:number)=>{
    this.setState({index});
  }
  render(){
      return (
        <div className="home-swipers">
           <SwiperItems sliders={this.props.sliders} changeIndex={this.changeIndex}/>
           <div className="dots">
                    {
                        this.props.sliders.map((item:string,index:number) => (
                            <span key={index} className={`dot ${this.state.index ==index?'active':''}`}>span>
                        ))
                    }
           div>
        div>
      )
  }
}
export default connect()(Swiper);
```

14.2 Home/components/Swiper/SwiperItems.tsx

src/containers/Home/components/Swiper/SwiperItems.tsx

```
import * as React from 'react';
import { connect } from 'react-redux';
import './index.less';
import * as ReactSwipe from 'react-swipe';
interface IProps{
  sliders:any,
  changeIndex:any
}

class Swiper extends React.Component<IProps>{
  render(){
      let swipeOptions = {
        auto: 1000,
        continuous: true,
        callback:(index:number)=>{
            this.props.changeIndex(index);
        }
      }
      return (
        <ReactSwipe className="carousel" swipeOptions={swipeOptions}>
           {
             this.props.sliders.map((item:string,index:number)=>(
               <div key={index}>
                 <img src={item}/>
               div>
             ))
           }
           ReactSwipe>
      )
  }
}
export default connect()(Swiper);
```

参考

- zhufeng-ts-ketang (https://gitee.com/zhufengpeixun/zhufeng-ts-ketang)