link null title: 珠峰架构师成长计划 description: src\index.html keywords: null author: null date: null publisher. 珠峰架构师成长计划 stats: paragraph=189 sentences=886, words=5517

# 1.搭建开发环境

```
mkdir 2019zfkt

cd 2019zfkt

cnpm init -y

touch .gitignore

cnpm i react react-dom @types/react @types/react-dom react-router-dom @types/react-router-dom react-transition-group @types/react-transition-group react-swipe

@types/react-swipe antd gs @types/gs -S
```

```
cnpm i react react-dom @types/react @types/react-dom react-router-dom @types/react-router-dom react-transition-group @types/react-transition-group react-swipe @types/react-swipe antd qs @types/qs -S

cnpm i webpack webpack-cli webpack-dev-server html-webpack-plugin -D

cnpm i typescript ts-loader source-map-loader style-loader css-loader less-loader less url-loader file-loader -D

cnpm i redux react-redux @types/react-redux redux-thunk redux-logger @types/redux-logger redux-promise @types/redux-promise -S

cnpm i connected-react-router -S

cnpm i express express-session body-parser cors axios -S
```

- ts-loader可以让Webpack使用TypeScript的标准配置文件 tsconfig.json编译TypeScript代码。
- source-map-loader使用任意来自Typescript的 sourcemap输出,以此通知webpack何时生成自己的sourcemaps,这让你在调试最终生成的文件时就好像在调试TypeScript源码一样。
- 需要生成一个 tsconfig.json文件来告诉 ts-loader如何编译代码 TypeScript代码

tsc --init

```
{
  "compilerOptions": {
     "outDir": "./dist",
     "sourceMap": true,
     "noImplicitAny": true,
     "module": "commonjs",
     "target": "es5",
     "jsx": "react",
     "esModuleInterop":true
  },
  "include": {
     "./src/**/*"
  ]
}
```

项目 含义 outDir 指定输出目录 sourceMap 把ts 文件编译成 js 文件的时候,同时生成对应的sourceMap文件 noImplicitAny 如果为true的话,TypeScript 编译器无法推断出类型时,它仍然会生成 JavaScript 文件,但是它也会报告一个错误 module:代码规范 target:转换成es5 jsx react模式会生成React.createElement,在使用前不需要再进行转换操作了,输出文件的扩展名为;s include 需要编译的目录 allowSyntheticDefaultImports 允许从没有设置默认导出的模块中默认导入。这并不影响代码的输出,仅为了类型检查。 esModuleInterop 设置 esModuleInterop: true 使 typescript 来兼容所有模块方案的导入

```
在 TypeScript 中,有多种 import 的方式,分别对应了 JavaScript 中不同的 export
```

```
import * as xx from 'xx';
import xx from 'xx';
```

webpack.config.js

```
const webpack=require('webpack');
const HtmlWebpackPlugin=require('html-webpack-plugin');
const path=require('path');
 odule.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: {
             "~":path.resolve(__dirname,'node_modules')
         extensions: [".ts", ".tsx", ".js", ".json"]
    module: {
        rules: [{
                 test: /\.(j|t)sx?$/,
loader: "ts-loader",
                 exclude:/node_modules/
                 enforce: "pre",
                 loader: "source-map-loader"
                 test: /\.css$/,
use:['style-loader','css-loader']
                 use:['style-loader','css-loader','less-loader']
                 test: /\.(gif|svg|png|jpg|jpeg)$/,
                 use:['url-loader']
       ]
        new HtmlWebpackPlugin({
            template:'./src/index.html'
         new webpack.HotModuleReplacementPlugin()
   ],
```

# src\index.html

# 2.跑通路由

src\index.tsx

```
import React from "react";
import ReactDOM from "react-dom";
import { Switch, Route, Redirect } from "react-router-dom";
import { Provider } from "react-redux";
import store from "./store";
import { ConfigProvider } from "antd";
import zh_CN from "antd/lib/locale-provider/zh_CN";
import "./assets/css/common.less";
import Tabs from "./components/Tabs"
import labs Itom ./components/Itabs,
import Nome from "./routes/Mome";
import Mime from "./routes/Mime";
import Profile from "./routes/Profile";
import { ConnectedRouter } from 'connected-react-router';
import history from './store/history';
  eactDOM.render(
     <Provider store={store}>
           <ConnectedRouter history={history}>
                 <ConfigProvider locale={zh_CN}>
                      <main className="main-container">
                                  <Route path="/" exact component={Home} />
                                   <Route path="/mime" component={Mime} />
                                  <Route path="/profile" component={Profile} />
<Redirect to="/" />
                            Switch>
                       <Tabs />
                 ConfigProvider>
           ConnectedRouter>
     document.getElementById("root")
```

#### src\store\index.tsx

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

#### src\store\history.tsx

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

#### src\store\action-types.tsx

```
export const DEMO = 'DEMO';
```

# src\store\reducers\index.tsx

```
import { combineReducers,ReducersMapObject } from 'redux';
import home from './home';
import { connectRouter } from 'connected-react-router';
import history from '../history';
let reducers:ReducersMapObject = {
    router: connectRouter(history),
    home
    };
type TypeRootState = {
        [key in keyof typeof reducers]: ReturnType<typeof reducers[key]>
    }
let reducer: Reducer = combineReducers(reducers);
export { TypeRootState }
export { TypeRootState }
export default reducer;
```

# src\store\reducers\home.tsx

```
import { AnyAction } from 'redux';
export interface TypeHome {
}
let initialState: TypeHome = {
};
export default function (state: TypeHome = initialState, action: AnyAction): TypeHome {
    switch (action.type) {
        default:
            return state;
        }
}
```

# src\typing\common.tsx

```
import { Dispatch, Store } from 'redux';
export interface TypeObject {
    [propName: string]: any
}
export interface TypeAction {
    type: string;
    payload?: any
}
export interface TypeThunkFunction {
    (dispatch: Dispatch, getState: Store['getState']): void
}
```

src\routes\Home\index.tsx

#### src\routes\Mime\index.tsx

# src\routes\Profile\index.tsx

# src\components\Tabs\index.tsx

# src\assets\css\common.less

```
@import "~antd/dist/antd.css";
html{
    font-size:100px;
}
#root{
    margin: 0 auto;
    max-width:750px;
    box-sizing: border-box;
}
.main-container{
    padding:1rem 0 1.2rem 0;
}
```

# 3.首页头部导航

routes\Home\index.tsx

```
import React from 'react';
import { connect } from 'react-redux';
import HomeHeader from './HomeHeader';
import actions from './../store/actions/home';
import { TypeRootState } from './../store/reducers/home';
import { RouteComponentProps } from 'react-router-dom';
import './index.less';
 type StateProps = ReturnType<typeof mapStateToProps>;
 type DispatchProps = typeof actions;
 type Props = RouteComponentProps & StateProps & DispatchProps & {
     children: any
class Home extends React.Component<Props>{
    constructor (props: Props) {
           super (props);
     render() {
           return (
              .....eneader currentCategory={this.props.currentCategory setCurrentCategory={this.props.setCurrentCategory} /> </>
                     <HomeHeader currentCategory={this.props.currentCategory}</pre>
         )
     }
let mapStateToProps = (state: TypeRootState): TypeHome => state.home;
export default connect(
   mapStateToProps.
      actions
) (Home);
```

#### src\store\action-types.tsx

export const SET\_CURRENT\_CATEGORY = 'SET\_CURRENT\_CATEGORY';

#### store\reducers\home.tsx

```
import * as TYPES from "../action-types";
import { TypeAction } from '../../typing/common';
export interface TypeHome {
    currentCategory: string;
}
let initialState: TypeHome = {
    currentCategory: 'all'
};
export default function (state: TypeHome = initialState, action: TypeAction): TypeHome {
    switch (action.type) {
        case TYPES.SET_CURRENT_CATEGORY:
            return { ...state, currentCategory: action.payload };
        default:
            return state;
    }
}
```

# routes\Home\index.less

```
.home-container{
   position: fixed;
   top:Irem;
   left:0;
   width:100%;
   overflow-y: auto;
   height:calc(100vh - 2.22rem);
}
```

# store\actions\home.tsx

```
import * as TYPES from '../action-types';
import { TypeAction } from '../../typing/common';
export default {
    setCurrentCategory(currentCategory: string): TypeAction {
        return { type: TYPES.SET_CURRENT_CATEGORY, payload: currentCategory };
    }
}
```

routes\Home\HomeHeader\index.tsx

```
import React from "react";
import { RouteComponentProps, withRouter } from 'react-router-dom';
import { Icon } from 'antd';
import { Transition } from 'react-transition-group';
import './index.less';
const duration = 300;
const defaultStyle: React.CSSProperties = {
  transition: `all ${duration}ms ease-in-out`,
   opacity: 0,
  display: 'none'
  nterface TypeTransitionStyles {
  entering: React.CSSProperties;
entered: React.CSSProperties;
  exiting: React.CSSProperties; exited: React.CSSProperties;
  unmounted: React.CSSProperties;
  const transitionStyles: TypeTransitionStyles = {
  entering: { opacity: 0, display: 'none' },
  entered: { opacity: 1, display: 'block' },
  exiting: { opacity: 0, display: 'none' },
  exited: { opacity: 0, display: 'none' },
unmounted: { opacity: 0, display: 'none' }
  nterface PathParamsType { }
 type Props = RouteComponentProps & {
  children?: any,
  currentCategory?: any,
setCurrentCategory?: any;
  refreshLessons?: any
  nterface State {
                 ader extends React.Component<Props, State>{
  state = { in: false }
   constructor(props: Props) {
     super (props);
  setCurrentCategory = (event: React.MouseEvent) => {
  let target: EventTarget = event.target;
  let category = (target as HTMLUListElement).dataset.category;
     this.props.setCurrentCategory(category);
this.setState({ in: false }, this.props.refreshLessons);
   render() {
     return (
        <header className="home-header">
           <Icon type="bars" onClick={event => this.setState({ in: !this.state.in })} />
           div>
           <Transition in={this.state.in} timeout={300}>
                  ...defaultStyle,
                      ...transitionStyles[state]
                     onClick={this.setCurrentCategory}
                     <!i data-category="all" className={this.props.currentCategory == 'all' ? 'active' : ''}>全部课程1i>
                     data-category="react" className={this.props.currentCategory == 'react' ? 'active' : '')>React课程li>
data-category="vue" className={this.props.currentCategory == 'vue' ? 'active' : ''}>Vue课程li>
                  ul>
                )
           Transition>
        header>
    );
export default withRouter(HomeHeader);
```

src\routes\Home\HomeHeader\index.less

```
BBG: #2a2a2a;
|.nome-header (
    position: fixed;
    top: 0;
    left: 0;
    lef
```

# 4.个人中心

src\routes\Profile\index.tsx

```
import React from 'react';
import { connect } from 'react-redux';
import ( TypeRootState ) from '../../store/reducers';
import ( TypeProfile ) from '../../store/reducers/profile';
import actions from '../../store/actions/profile';
import LOGIN_TYPES from '../../typings/login-types';
import { RouteComponentProps } from 'react-router';
import { Descriptions, Button, Alert } from 'antd';
import NavHeader from '../../components/NavHeader';
import './index.less';
interface State {
type StateProps = ReturnType<typeof mapStateToProps>;
type DispatchProps = typeof actions;
interface IParams { }
 type RouteProps = RouteComponentProps;
type Props = StateProps & DispatchProps & RouteProps & {
   children?: any
class Profile extends React.Component<Props, State> {
    async componentDidMount() {
        if (!this.props.user)
            await this.props.validate();
    render() {
        let content:
        if (this.props.loginState == LOGIN_TYPES.UN_VALIDATE) {
            content = null;
        } else if (this.props.loginState == LOGIN_TYPES.LOGINED) {
            content = (
                <div className="user-info">
                    <Descriptions title="当前登录用户"
                        <Descriptions.Item label="邮箱">zhangsan@qq.comDescriptions.Item>
                    Descriptions>
                    -
<Button type="danger">退出登录Button>
                div>
        } else {
                <>
                    <Alert type="warning" message="当前未登录" description="亲爱的用户你好,你当前尚未登录,请你选择注册或者登录" />
                    div>
        return (
                <section>
                   <NavHeader history={this.props.history}>个人中心NavHeader>
               section>
       )
 let mapStateToProps = (state: TypeRootState): TypeProfile => state.profile
 export default connect(
   mapStateToProps,
    actions
)(Profile);
```

# src\routes\Profile\index.less

```
.user-info{
    padding:.2rem;
}
```

# src\store\action-types.tsx

```
export const SET_CURRENT_CATEGORY = 'SET_CURRENT_CATEGORY';

+export const VALIDATE = 'VALIDATE';
+export const LOGOUT = 'LOGOUT';
```

# src\store\reducers\index.tsx

```
import { combineReducers, Reducer, ReducersMapObject, AnyAction } from 'redux';
import { connectRouter } from 'connected-react-router';
import history from '../history';
import home from './home';
import mine from './mine';
import profile from './profile';
+let reducers: ReducersMapObject = {
    home,
    mine,
    profile,
    router: connectRouter(history)
}
export type TypeRootState = {
    [key in keyof typeof reducers]: ReturnType
}
+let reducer: Reducer = combineReducers(reducers);
export default reducer;
```

```
import axios from "axios";
import qs from "qs";
axios.defaults.baseURL = "http://localhost:8000";
axios.defaults.withCredentials = true;
axios.defaults.transformRequest = (data = {}) => qs.stringify(data);
axios.interceptors.response.use(result => result.data);
export default axios;
```

src\api\profile.tsx

```
import axios from './index';
export function validate() {
    return axios.get('/validate');
}
```

#### components\NavHeader\index.tsx

#### components\NavHeader\index.less

```
.nav-header{
   position: fixed;
   left:0;
   top:0;
   height:lrem;
   z-index: 1000;
   width:100%;
   box-sizing: border-box;
   text-align: center;
   line-height: lrem;
   background-color: #2A2A2A;
   color:#FFF;
   i{
       position: absolute;
       left:.2rem;
       line-height: lrem;
   }
}
```

# src\typings\login-types.tsx

```
enum LOGIN_TYPES {
    UN_VALIDATE,
    LOGINED,
    UNLOGIN
}
export default LOGIN_TYPES;
```

# store\actions\profile.tsx

src\store\reducers\profile.tsx

# 5.注册登录

src\routes\Register\index.tsx

```
import React from "react";
import { connect } from "react-redux";
import actions from "../../store/actions/profile";
import { RouteComponentProps, Link } from "react-router-dom";
import NavHeader from "../../components/NavHeader";
import { Form, Icon, Input, Button, message } from "antd";
import { TypeRootState } from '../../store/reducers';
import { TypeProfile } from '../../store/reducers/profile';
import "./index.less";
type StateProps = ReturnType<typeof mapStateToProps>;
type DispatchProps = typeof actions;
interface PathParamsType { }
 type Props = RouteComponentProps & StateProps & DispatchProps & {
    children?: any;
    form: any;
class Register extends React.Component<Props> {
    handleSubmit = (event: React.FormEvent) => {
    event.preventDefault();
          this.props.form.validateFields(async (err: any, values: any) => {
              if (err) {
                    message.error('表单验证失败!');
                   this.props.register(values);
         });
     render() {
          const { getFieldDecorator } = this.props.form;
          return (
                    <NavHeader history={this.props.history}>用产注册NavHeader><Form onSubmit={this.handleSubmit} className="login-form">
                         <Form.Item>
                              {getFieldDecorator("username", {
                                   rules: [{ required: true, message: "请输入你的用户名!" }]
                              })(
                                   <Input
                                             <Icon type="user" style={{ color: "rgba(0,0,0,.25)" }} />
                                        placeholder="用户名"
                             ) }
                         <Form.Item>
                              {getFieldDecorator("password", {
                                  rules: [{ required: true, message: "请输入你的密码!" }]
                              })(
                                   <Input
                                             <Icon type="lock" style={{ color: "rgba(0,0,0,.25)" }} />
                                        type="password"
                                       placeholder="密码"
                                  />
                             ) }
                         Form.Item>
                          <Form.Item>
                              {getFieldDecorator("email", {
                                   rules: [{ required: true, message: "请输入你的邮箱!" }]
                              })(
                                   <Input
                                        prefix={
                                             <Icon type="mail" style={{ color: "rgba(0,0,0,.25)" }} />
                                        type="email"
                                        placeholder="邮箱"
                                  />
                              ) }
                         Form Item>
                         <Form.Item>
                              {getFieldDecorator("phone", {
rules: [{ required: true, message: "请输入你的手机号!" }]
                                   <Input
                                        prefix={
                                            <Icon type="phone" style={{ color: "rgba(0,0,0,.25)" }} />
                                        type="text"
                                        placeholder="手机号"
                                  />
                             ) }
                         Form.Item>
                          <Form.Item>
                              <Button
                                   type="primary"
                                   htmlType="submit"
className="login-form-button"
                                  注册
                             或者 <Link to="/login">立刻登录!Link>
                         Form.Item>
                   Form>
const WrappedRegister = Form.create({ name: "login" }) (Register);
let mapStateToProps = (state: TypeRootState): TypeProfile => state.profile;
export default connect(mapStateToProps, actions)(WrappedRegister);
```

```
.login-form{
  padding:.2rem;
}
```

#### routes\Login\index.tsx

```
import React from "react";
import { connect } from "react-redux";
import { connect } from "react-redux";
import actions from "../../store/actions/profile";
import { Link, RouteComponentProps } from "react-router-dom";
import NavHeader from "../../components/NavHeader";
import { Form, Icon, Input, Button, message } from "antd";
import "./index.less";
import { TypeRootState } from '../../store/reducers';
import { TypeProfile } from '../../store/reducers/profile';
type StateProps = ReturnType<typeof mapStateToProps>;
 type DispatchProps = typeof actions;
 interface PathParamsType { }
 type Props = RouteComponentProps & StateProps & DispatchProps & {
    children?: any;
    form: any;
class Register extends React.Component<Props> {
     handleSubmit = (event: React.FormEvent) => {
          event.preventDefault();
          this.props.form.validateFields(async (err: any, values: any) => {
               if (err) {
                    message.error('表单验证失败!');
                   this.props.login(values);
          });
     render() {
          const { getFieldDecorator } = this.props.form;
          return (
                     <NavHeader history={this.props.history}>用户登录NavHeader>
                    <Form onSubmit={this.handleSubmit} className="login-form">
                         <Form.Item>
                               {getFieldDecorator("username", {
rules: [{ required: true, message: "请输入你的用户名!" }]
                                    <Input
                                        prefix={
                                             <Icon type="user" style={{ color: "rgba(0,0,0,.25)" }} />
                                        placeholder="用户名"
                                   />
                         Form.Item>
                          <Form.Item>
                               {getFieldDecorator("password", {
rules: [{ required: true, message: "请输入你的密码!" }]
                                    <Input
                                        prefix={
                                             <Icon type="lock" style={{ color: "rgba(0,0,0,.25)" }} />
                                        placeholder="密码"
                              ) }
                          <Form.Item>
                                    type="primary"
                                   htmlType="submit"
className="login-form-button"
                                   登录
                              或者 <Link to="/register">立刻注册!Link>
                         Form.Item>
                    Form>
               </>
 const WrappedRegister = Form.create({ name: "login" })(Register);
const mapStateToProps = (state: TypeRootState): TypeProfile => state.profile;
export default connect(mapStateToProps, actions)(WrappedRegister);
```

# index.less

```
.login-form{
   padding:.2rem;
}
```

# src\routes\Profile\index.tsx

```
import React from 'react';
import { connect } from 'react-redux';
import { TypeRootState } from '../../store/reducers';
import { TypeRootState } from '../../store/reducers/profile';
import actions from '../../store/actions/profile';
import LOGIN_TYPES from '../../typings/login-types';
import LOGIN_TYPES from '../../typings/login-types';
import RouteComponentProps } from 'react-router';
+import { Descriptions, Button, Alert, Upload, Icon, message } from 'antd';
import NavHeader from '../../components/NavHeader';
import './index.less';
interface State {
+ loading: boolean,
```

```
imageUrl?: string
,
//当前的组件有三个属性来源
//1.mapStateToProps的返回值 2.actions对象类型 3. 来自路由 4.用户传入进来的其它属性
type StateProps = ReturnType;
type DispatchProps = typeof actions;
interface IParams { }
type RouteProps = RouteComponentProps;
type Props = StateProps & DispatchProps & RouteProps & {
   children?: any
class Profile extends React.Component {
   async componentDidMount() {
        if (!this.props.user) {
            await this.props.validate();
         loading: false,
         imageUrl: ''
    handleChange = (info: any) => {
       imageUrl: data,
                 loading: false,
}, () => this.props.changeAvatar(data))
             } else {
                message.error(error);
    render() {
       let content;//里存放着要渲染的内容
        if (this.props.loginState == LOGIN_TYPES.UN_VALIDATE) {
   content = null;
        } else if (this.props.loginState == LOGIN_TYPES.LOGINED) {
             let { user } = this.props;
let { imageUrl } = this.state;
if (!imageUrl)
             imageUrl = user.avatar;
content = (
                                   listType="picture-card" className="avatar-uploader"
                                    showUploadList={false}
                                    action="http://localhost:8000/uploadAvatar"
                                   beforeUpload={beforeUpload}
data={{ userId: user._id }}
                                    \verb|onChange={this.handleChange}|
                                       this.state.loading ? :
                          15718856132
                         zhangsan@qq.com
                      await this.props.logout();
this.props.history.push('/login');
}}>退出登录
            content = (
                          this.props.history.push('/login')}>登录
                          this.props.history.push('/register')}>注册
                </>
                     个人中心
let mapStateToProps = (state: TypeRootState): TypeProfile => state.profile
export default connect(
   mapStateToProps,
   actions
+function getBase64(img: any, callback: any) {
    const reader = new FileReader();
```

```
reader.addEventListener('load', () => callback(reader.result));
    reader.readAsDataURL(img);
+function beforeUpload(file: any) {
   const isJpgOrPng = file.type === 'image/jpeg' || file.type === 'image/png'; if (!isJpgOrPng) {
       message.error('你只能上传JPG/PNG 文件!');
   const isLessThan2M = file.size / 1024 / 1024 < 2;
   if (!isLessThan2M)
      message.error('图片必须小于2MB!');
   return isJpgOrPng && isLessThan2M;
```

# src\store\action-types.tsx

```
export const SET CURRENT CATEGORY = 'SET CURRENT CATEGORY';
export const VALIDATE = 'VALIDATE';
export const LOGOUT = 'LOGOUT';
texport const CHANGE_AVATAR = 'CHANGE_AVATAR';
```

```
src\store\actions\profile.tsx
+import { AnyAction, Dispatch } from 'redux';
 import * as TYPES from '../action-types';
+import { validate, logout, register, login } from '../../api/profile';
+import ( Validate, logour, register, login ) from '../../api/profile';
+import { push } from 'connected-react-router';
+import { message } from "antd";
+import { TypeAction, TypeObject, TypeThunkFunction } from '../../typings/common';
export default {
     validate(): AnyAction {
   return {
                  type: TYPES.VALIDATE,
                 payload: validate()
       register(values: TypeObject): TypeThunkFunction {
   return async function (dispatch: Dispatch) {
    let result: any = await register(values);
    if (result.code === 0) {
        dispatch(push('/login'));
    }
}
                   message.error(result.error);
}
       dispatch(push('/profile'));
                   message.error(result.error);
}
       logout(): TypeAction {
             return {
    type: TYPES.LOGOUT,
                   payload: logout()
       changeAvatar(avatar: string) {
             return {
    type: TYPES.CHANGE AVATAR,
                    payload: avatar
```

src\store\reducers\profile.tsx

```
import { AnyAction } from 'redux';
import * as TYPES from "../action-types";
import LOGIN_TYPES from '../../typings/login-types';
export interface TypeProfile {
    loginState: LOGIN_TYPES,
    user: any,
    error: string | null
let initialState: TypeProfile = {
   loginState: LOGIN_TYPES.UN_VALIDATE,
    user: null.
    error: null
export default function (state: TypeProfile = initialState, action: AnyAction): TypeProfile {
    switch (action.type) {
   case TYPES.VALIDATE:
              let { code, data, error } = action.payload;
if (code == 0) {
                   return {
                        loginState: LOGIN TYPES.LOGINED,
                        user: data,
                        error: null
              } else {
                   return { ...state, loginState: LOGIN_TYPES.UNLOGIN, user: null, error };
          case TYPES.LOGOUT:
          return { ...state, loginState: LOGIN_TYPES.UN_VALIDATE, user: null, error: null };
case TYPES.CHANGE_AVATAR:
               return { ...state, user: { ...state.user, avatar: action.payload } };
              return state:
```

# src\api\profile.tsx

```
import axios from './index';
timport { TypeObject ) from '../typings/common';
export function validate() {
    return axios.get('/validate');
}
texport function logout() {
    return axios.get('/logout');
    typeObject | {
    return axios.post('/login', values);
    typeObject | {
    return axios.post('/login', values);
    typeObject | {
    return axios.post('/register', values);
    return axios.post('/register', values);
    typeObject | {
    return axios.post('/register', values);
    return axios.
```

# 6.轮播图

# src\routes\Home\index.tsx

```
import React from 'react';
import keact rrom 'react;
import { connect } from 'react-redux';
import { TypeRootState } from '../../store/reducers';
import { TypeHome } from '../../store/reducers/home';
import actions from '../../store/actions/home';
import { RouteComponentProps } from 'react-router';
import HomeHeader from './HomeHeader';
+import HomeSliders from './HomeSliders';
import './index.less';
interface State {
 ,
//当前的组件有三个属性来源
//1.mapStateToProps的返回值 2.actions对象类型 3. 来自路由 4.用户传入进来的其它属性
type StateProps = ReturnType;
type DispatchProps = typeof actions;
interface IParams { }
type RouteProps = RouteComponentProps;
 type Props = StateProps & DispatchProps & RouteProps & {
     children?: any
class Home extends React.Component {
      homeContainerRef: any
    render() {
          return (
                                   sliders={this.props.sliders}
                                   getSliders={this.props.getSliders} />
                  </>
 let mapStateToProps = (state: TypeRootState): TypeHome => state.home
 export default connect(
     mapStateToProps,
     actions
```

```
import React from "react";
import { Carousel } from "antd";
import "./index.less";
import { TypeSlider } from '../../store/reducers/home';
interface Props {
    children?: any;
    sliders?: any,
getSliders?: any
 interface State { }
class HomeSliders extends React.Component<Props, State> {
    constructor (props: Props) {
        super(props);
    componentDidMount() {
        if (this.props.sliders.length == 0) {
    this.props.getSliders();
        return (
             <Carousel effect="scrollx" autoplay>
                      this.props.sliders.map((item: TypeSlider, index: number) => (
                    Carousel>
export default HomeSliders;
```

#### routes\Home\HomeSliders\index.less

```
.ant-carousel .slick-slide {
    text-align: center;
    height: 3.2rem;
    line-height: 3.2rem;
    background: #364d79;
    overflow: hidden;
    }
    .ant-carousel .slick-slide {
        color: #fff;
        img {
            width:100%;
            height:3.2rem;
        }
}
```

# src\store\actions\home.tsx

# src\store\action-types.tsx

```
export const SET_CURRENT_CATEGORY = 'SET_CURRENT_CATEGORY';
texport const GET_SLIDERS = 'GET_SLIDERS';
export const VALIDATE = 'VALIDATE';
export const LOGOUT = 'LOGOUT';
export const CHANGE_AVATAR = 'CHANGE_AVATAR';
```

# src\api\home.tsx

```
import axios from './index';
export function getSliders() {
    return axios.get('/sliders');
}
```

src\store\reducers\home.tsx

```
import { AnyAction } from 'redux';
import * as TYPES from '../action-types';
sxport interface TypeSlider {
    url: string
}

export interface TypeHome {
    currentCategory: string;
    sliders: Array;
}

let initialState: TypeHome = {
    currentCategory: 'all',
    sliders: []
}

export default function (state: TypeHome = initialState, action: AnyAction) {
    switch (action.type) {
        case TYPES.SET_CURRENT_CATEGORY:
            return { ...state, currentCategory: action.payload };
        case TYPES.GET_SLIDERS:
            return { ...state, sliders: action.payload.data };
        default:
            return state;
    }
}
```

#### 7.课程列表

#### src\routes\Home\index.tsx

```
import React from 'react';
import { connect } from 'react-redux';
import { TypeRootState } from '../../store/reducers';
import { TypeHome } from '../../store/reducers/home';
import actions from '../../store/actions/home';
import { RouteComponentProps } from 'react-router';
import HomeHeader from './HomeHeader';
import HomeSliders from './HomeSliders';
+import LessonList from './LessonList';
+import { loadMore, downReferesh } from '../../utils';
import './index.less';
interface State {
.
//当前的组件有三个属性来源
//1.mapStateToProps的返回值 2.actions对象类型 3. 来自路由 4.用户传入进来的其它属性
type StateProps = ReturnType;
type DispatchProps = typeof actions;
interface IParams { }
type RouteProps = RouteComponentProps;
type Props = StateProps & DispatchProps & RouteProps & { children?: any
class Home extends React.Component {
    homeContainerRef: any
     lessonListRef: any
      constructor(props: Props) {
           super (props);
          this.homeContainerRef = React.createRef();
           this.lessonListRef = React.createRef();
     componentDidMount() {
           {\tt loadMore} \, ({\tt this.homeContainerRef.current}, \,\, {\tt this.props.getLessons}) \, ;
           downReferesh(this.homeContainerRef.current, this.props.refreshLessons);
           this.homeContainerRef.current.addEventListener('scroll', () => {
    this.lessonListRef.current.forceUpdate();
           });
     render() {
          return (
                               ref={this.lessonListRef}
                                container={this.homeContainerRef}
                                lessons={this.props.lessons}
                                getLessons={this.props.getLessons} />
               </>
        )
    }
let mapStateToProps = (state: TypeRootState): TypeHome => state.home
 export default connect(
    mapStateToProps,
     actions
) (Home);
```

# src\routes\Home\index.less

```
+.home-container(
+ position: fixed;
+ top:lrem;
+ left:0;
+ width:100%;
+ overflow-y: auto;
+ height:calc(100vh - 2.22rem);
}
```

```
import React from "react";
import "./index.less";
import { Icon, Card, Skeleton, Button, Alert } from 'antd';
import { Link } from 'react-router-dom';
import { TypeLesson } from '../../.store/reducers/home';
 interface Props {
    children?: any;
    lessons?: any;
    getLessons?: any;
    container?: any
class LessonList extends React.Component<Props> {
    constructor(props: Props) {
         super(props);
    componentDidMount() {
        if (this.props.lessons.list.length == 0) {
    this.props.getLessons();
    render() {
         let start = 0;
        let rem = parseInt(document.documentElement.style.fontSize);
if (this.props.container.current) {
             let scrollTop = this.props.container.current.scrollTop;
             if (scrollTop - 4.2 * rem > 0) {
                start = Math.floor((scrollTop - 4.2 * rem) / (6.5 * rem));
         return (
             <section className="lesson-list">
                 <h2><Icon type="menu" />全部课程h2>
                  <Skeleton loading={this.props.lessons.list.length == 0 && this.props.lessons.loading} active paragraph={{ rows: 8 }}>
                           this.props.lessons.list.map((lesson: TypeLesson, index: number) => (
                               Link> : <div key={index} style={{ height: `${6.5 * rem}px` }}>div>
                          ))
、
this.props.lessons.hasMore ? <Button onClick={this.props.getLessons} loading={this.props.lessons.loading} type="primary" block >
{this.props.lessons.loading ? '' : '加载更多'}Button> : <Alert style={{ textAlign: 'center' }} message="到底了" type="warning" />
                  Skeleton>
       Skele section>
   }
export default LessonList
```

# src\routes\Home\LessonList\index.less

```
.lesson-list{
    h2{
        line-height: lrem;
        i{
            margin:0 .lrem;
        }
    }
    .ant-card.ant-card-bordered.ant-card-hoverable{
        height:6.5rem;
        overflow:hidden;
    }
}
```

src\store\actions\home.tsx

#### src\store\action-types.tsx

```
export const SET_CURRENT_CATEGORY = 'SET_CURRENT_CATEGORY';
export const GET_SLIDERS = 'GET_SLIDERS';

export const VALIDATE = 'VALIDATE';
export const LOGOUT = 'LOGOUT';
export const CHANGE_AVATAR = 'CHANGE_AVATAR';

+export const GET_LESSONS = 'GET_LESSONS';
+export const SET_LESSONS = 'SET_LESSONS_LOADING';
+export const SET_LESSONS = 'SET_LESSONS';

texport const SET_LESSONS = 'SET_LESSONS';
```

### src\api\home.tsx

```
import axios from './index';
export function getSliders() {
    return axios.get('/sliders');
}
export function getLessons(currentCategory: string = 'all', offset: number, limit: number) {
    return axios.get('/getLessons/${currentCategory}?offset=${offset}&limit=${limit}`);
    +
}
```

src\store\reducers\home.tsx

```
import { AnyAction } from 'redux';
import * as TYPES from '../action-types';
export interface TypeSlider {
    url: string
+export interface TypeLesson {
+ _id: string;
+ id: number;
      title: string;
      video: string;
poster: string;
     url: string;
price: string;
      category: string;
+export interface TypeLessons {
      loading: boolean;
list: Array;
     hasMore: boolean;
offset: number;
     limit: number;
export interface TypeHome {
    currentCategory: string;
sliders: Array;
      lessons: TypeLessons;
let initialState: TypeHome = {
    currentCategory: 'all',
    sliders: [],
      lessons: {
           loading: false,
           hasMore: true,
           offset: 0,
limit: 5
 export default function (state: TypeHome = initialState, action: AnyAction) {
   switch (action.type) {
    case TYPES.SET_CURRENT_CATEGORY:
        return { . . . state, currentCategory: action.payload };
    case TYPES.GET_SLIDERS:
           return { ...state, sliders: action.payload.data }; case TYPES.SET_LESSONS_LOADING:
                 return {
                      ...state, lessons: {
                             ...state.lessons,
                            loading: action.payload
                 };
           case TYPES.SET_LESSONS:
                return {
...state, lessons: {
                             ...state.lessons,
                             loading: false,
                            hasMore: action.payload.hasMore,
list: [...state.lessons.list, ...action.payload.list],
offset: state.lessons.offset + action.payload.list.length
           };
case TYPES.REFRESH_LESSONS:
                 return {
...state, lessons: {
                            ...state.lessons,
                            hasMore: action.payload.hasMore,
                            list: action.payload.list,
offset: action.payload.list.length
                return state;
    }
```

src\utils.tsx

```
xport function loadMore(element: any, callback: any) {
   function _loadMore() {
   let clientHeight = element.clientHeight;
        let scrollTop = element.scrollTop;
let scrollHeight = element.scrollHeight;
        if (clientHeight + scrollTop + 10 >= scrollHeight) {
   callback();
   element.addEventListener('scroll', debounce(loadMore, 300));
export function downReferesh(element: any, callback: any) {
   console.log('downReferesh', new Date());
   let startY: number;
   let distance: number;
   let originTop = element.offsetTop;
   element.addEventListener('touchstart', function (event: any) {
   let touchMove = throttle(_touchMove, 70);
       if (element.offsetTop == originTop && element.scrollTop == 0) {
    startY = event.touches[0].pageY;
             element.addEventListener('touchmove', touchMove);
             element.addEventListener('touchend', touchEnd);
        let pageY = event.touches[0].pageY;
if (pageY > startY) {
    distance = pageY - startY;
                 element.style.top = originTop + distance + 'px';
                 element.removeEventListener('touchmove', touchMove);
                 element.removeEventListener('touchend', touchEnd);
        function touchEnd() {
             element.removeEventListener('touchmove', touchMove);
             element.removeEventListener('touchend', touchEnd);
             let timer = setInterval(function () {
                if (distance < 1) {
    element.style.top = originTop + 'px';</pre>
                      clearInterval(timer);
                 } else {
                     element.style.top = originTop + (--distance) + 'px';
             1. 13);
             if (distance > 30) {
                callback();
       }
   });
export function debounce (fn: any, wait: number) {
   var timeout: any = null;
return function () {
       if (timeout !== null) clearTimeout(timeout);
        timeout = setTimeout(fn, wait);
xport function throttle(func: any, delay: number) {
   var prev = Date.now();
   return function () {
       var context = this;
        var args = arguments;
        var now = Date.now();
        if (now - prev >= delay) {
   func.apply(context, args);
            prev = Date.now();
```

# 8.课程详情

src\index.tsx

```
import React from 'react';
import { connect } from 'react-redux';
import { Card, Button } from 'antd';
import NavHeader from "../../components/NavHeader";
import { getLesson } from '../../api/detail';
import { RouteComponentProps } from 'react-router';
import { TypeLesson } from '../../store/reducers/home';
const { Meta } = Card;
interface IParams { id: string }
type RouteProps = RouteComponentProps;
type Props = RouteProps & {
    children?: any
}
       lesson: TypeLesson;
class Detail extends React.Component<Props, State> {
   state: State = { lesson: { _id: '', id: 1, title: '', video: '', poster: '', url: '', price: '', category: '' } }
   async componentDidMount() {
    let lesson = this.props.location.state;
               if (!lesson) {
                     let id = this.props.match.params.id;
                      let result: any = await getLesson(id);
if (result.code == 0)
                             lesson = result.data;
                this.setState({ lesson });
        render() {
   let { lesson } = this.state;
               return (
                            <NavHeader history={this.props.history}>课程详情NavHeader>
                                    hoverable style={{ width: '100%' }}
                                     cover={<video src={lesson.video} controls autoPlay={false} />}
                    <i
Card>
</>
                                     <Meta title={lesson.title} description={<p>价格: {lesson.price}p>} />
  export default connect(
 )(Detail);
```

#### src\api\detail.tsx

```
import axios from './index';
export function getLesson(id: string) {
    return axios.get(`/getLesson?id=${id}`);
}
```