

1. 项目说明 #

1.1 项目目录结构 #

- src 项目源码目录
- index.js 入口文件
- containers 容器
- components 组件
- common 公共样式1.2 存入 Redux #
- 编写服务端接口
- 用fetch获取接口方法
- 通过action将获取的数据发送到reducer
- 通过reducer改变redux中的状态

\*\* 1.3 样式 #

资源链接 ([http://at.alicdn.com/t/font\\_pgq5jafnob51m7vi.css](http://at.alicdn.com/t/font_pgq5jafnob51m7vi.css))

- .icon-uilist
- .icon-xiaolian
- .icon-xiugaimima
- .icon-book
- .icon-fanhui
- .icon-guanbi
- .icon-guanyuwomen
- .icon-jianjie
- .icon-rentum
- .icon-xingqiu
- .icon-kecheng-copy
- .icon-common-changjianwenti-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	

\*\* 2. 首页导航 #

2.1 src/index.html #

+

2.2 src/index.tsx #

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import Home from './components/Home';
import Lesson from './components/Lesson';
import Profile from './components/Profile';
import App from './containers/App';
import { Provider } from 'react-redux';
import store from './store';
import { Route } from 'react-router-dom';
import { ConnectedRouter } from 'connected-react-router';
import history from './store/history';

ReactDOM.render((
  <Provider store={store}>
    <ConnectedRouter history={history}>
      <App>
        <Route exact path="/" component={Home} />
        <Route path="/lesson" component={Lesson}>
          <Route path="/profile" component={Profile} />
        </Route>
      </App>
    </ConnectedRouter>
  </Provider>
), document.getElementById('root'));
```

## 2.3 webpack.config.js #

```
module: {
  rules: [
    {
      test: /\.less$/,
      use: ['style-loader', 'css-loader', 'less-loader']
    }
  ],
}
```

## 2.4 common/common.less #

src/common/common.less

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

## 2.5 containers/App.tsx #

src/containers/App.tsx

```
import * as React from 'react';
import Tab from '../components/Tab';
import '../common/common.less'
export interface Props{
  children?: any,
}
export default class App extends React.Component<Props, {}> {
  render() {
    return (
      <React.Fragment>
        {this.props.children}
      </Tab>
      <Tab>
        React.Fragment
      </Tab>
    );
  }
}
```

## 2.6 Tab/index.tsx #

src/components/Tab/index.tsx

```
import * as React from 'react';
import { NavLink } from 'react-router-dom';
import './index.less'
export interface Props{
  children?: any,
}

export default 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 exact to="/lesson" activeClassName="active">
          <i className="iconfont icon-react">i>我的课程
        </NavLink>
        <NavLink exact to="/profile" activeClassName="active">
          <i className="iconfont icon-xiaolian">i>个人中心
        </NavLink>
      </nav>
    );
  }
}
```

## 2.7 Tab/index.less #

src/components/Tab/index.less

```
.footer{
  position: fixed;
  width:100%;
  height:53px;
  bottom:0;
  display:flex;
  background: #FFF;
  border-top:1px solid #D5D4D5;
  a{
    display: flex;
    flex:1;
    justify-content: center;
    align-items: center;
    color:#B5B5B6;
    flex-direction: column;
    i{
      font-size:20px;
    }
    &.active{
      color:#198AE4;
    }
  }
}
```

## 2.8 Home/index.tsx #

src/components/Home/index.tsx

```
import * as React from 'react';
export interface Props{
  children: any,
}
export default class Home extends React.Component<Props> {
  render() {
    return (
      <div>
        Home
      </div>
    );
  }
}
```

## 2.9 Lesson/index.tsx #

src/components/Lesson/index.tsx

```
import * as React from 'react';
export interface Props{
  children: any,
}
export default class Lesson extends React.Component<Props> {
  render() {
    return (
      <div>
        Lesson
      </div>
    );
  }
}
```

## 2.10 Profile/index.tsx #

src/components/Profile/index.tsx

```
import * as React from 'react';
export interface Props{
  children: any,
}
export default class Profile extends React.Component<Props> {
  render() {
    return (
      <div>
        Profile
      </div>
    );
  }
}
```

\*\* 3. 首页头部动画 #\*\*

## 3.1 types/index.tsx #

src/store/types/index.tsx

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

## 3.2 webpack.config.js #

webpack.config.js

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

src/components/HomeHeader/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('.././common/images/logo.png');
import { Props } from '.././store/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>
        <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>
      </div>
    );
  }
}

```

src/components/HomeHeader/index.less

```

.home-header{
  background:#2A2A2A;
  height:56px;
  width:100%;
  position:fixed;
  top:0;
  left:0;
  .header-menu{
    display:flex;
    height:56px;
    justify-content: space-between;
    align-items: center;
    img{
      height:30px;
      width:105px;
      margin-left:10px;
    }
    i{
      color:#FFF;
      margin-right:10px;
    }
  }
  .menu-list{
    position: absolute;
    top:56px;
    left:0;
    width:100%;
    background-color:#000;
    li{
      border-top:1px solid #464646;
      height:43px;
      line-height:43px;
      text-align: center;
      color:#FFF;
      border-top:1px solid #464646;
      &.active{
        color:green;
      }
    }
  }
}
.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.当前分类存入redux <#> \*\*

src/components/HomeHeader/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('../../common/images/logo.png');
export interface Props{
  currentCategory?: any,
  setCurrentCategory?: any
}
export default class HomeHeader extends React.Component<Props> {
  state={
    showList:false
  }
  setCurrentCategory=(event:any) => {
    let category=event.target.dataset.category;
    this.props.setCurrentCategory(category);
  }
  render() {
    let {currentCategory}=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-uili">i>
            }
          </div>
        </div>
        <TransitionGroup>
          {
            this.state.showList?<<CSSTransition
              timeout={500}
              className="fade"
            ><ul className="menu-list" onClick={this.setCurrentCategory}>
              <li data-category="react" className={currentCategory=='react'?'active':''}>Reactli>
              <li data-category="vue" className={currentCategory=='vue'?'active':''}>VueLi>
            </ul></CSSTransition>
          }
        </TransitionGroup>
      </div>
    );
  }
}

```

#### 4.2 Home/index.tsx #

src/containers/Home/index.tsx

```

import * as React from 'react';
import HomeHeader from '../../../components/HomeHeader';
import actions from '../../../store/actions/home';
import { Store } from '../../../store/types';
import { connect } from 'react-redux';
export interface Props{
  currentCategory?: any,
  setCurrentCategory?: any
}
class Home extends React.Component<Props> {
  render() {
    return (
      <React.Fragment>
        <HomeHeader
          currentCategory={this.props.currentCategory}
          setCurrentCategory={this.props.setCurrentCategory}
        />
      </React.Fragment>
    );
  }
}
export default connect(
  (state:Store)=>state.home,
  actions
)(Home);

```

#### 4.3 store/action-types.tsx #

src/store/action-types.tsx

```
+ export const SET_CURRENT_CATEGORY='SET_CURRENT_CATEGORY';
```

#### 4.4 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({
  home,
  router: connectRouter(history)
});
export default reducers;

```

#### 4.5 types/index.tsx #

src/store/types/index.tsx

```

export interface Store{
  home: Home
}
export interface Home{
  currentCategory: string
}
export interface Props{
  children?: any,
}

```

#### 4.6 actions/home.tsx <#>

src/store/actions/home.tsx

```

import {SET_CURRENT_CATEGORY} from '../action-types';
export interface setCurrentCategory{
  type: typeof SET_CURRENT_CATEGORY,
  currentCategory:string
}
export type Action=setCurrentCategory;
export default {
  setCurrentCategory(currentCategory:string): setCurrentCategory {
    return { type: SET_CURRENT_CATEGORY,currentCategory };
  }
}

```

#### 4.7 reducers/home.tsx <#>

src/store/reducers/home.tsx

```

import * as types from '../action-types';
import { Home } from '../types';
import {Action} from '../actions/home';
export default function (state: Home={ currentCategory: '' },action: Action): Home {
  switch (action.type) {
    case types.SET_CURRENT_CATEGORY:
      return {...state,currentCategory:action.currentCategory};
    default:
      return state;
  }
}

```

**\*\* 5. 轮播图 <#> \*\***

#### 5.1 HomeSwiper/index.tsx <#>

src/components/HomeSwiper/index.tsx

```

import * as React from 'react';
import * as ReactSwipe from 'react-swipe';
import './index.less';
interface Props{
  sliders:any
}
export interface State{
  index:number
}
export default class Swiper extends React.Component<Props,State> {
  state={ index:0}
  render() {
    let options={
      continuous: true,
      callback: (index: number) => {
        this.setState({index});
      }
    }
    let swiper=(
      <ReactSwipe className="carousel" swipeOptions={options}>
        {this.props.sliders.map((item:string,index:number) => (
          <div key={index}><img src={item}/></div>
        ))}
      </ReactSwipe>
    )
    return (
      <div className="home-sliders">
        {this.props.sliders.length>0? swiper:null}
        <div className="dots">
          {
            this.props.sliders.map((item:string,index:number) => (
              <span key={index} className={`dot ${this.state.index ==index?'active':''}`}></span>
            ))
          }
        </div>
      </div>
    );
  }
}

```

#### 5.2 HomeSwiper/index.less <#>

src/components/HomeSwiper/index.less

```
.home-sliders{
  position: relative;
  img{
    width:100%;
  }
  .dots{
    width:100%;
    position: absolute;
    bottom:7px;
    display: flex;
    justify-content: center;
    align-items: center;
    .dot{
      width:8px;
      height:8px;
      border-radius: 5px;
      background-color:#FFF;
      margin-left:5px;
      &.active{
        background-color:salmon;
      }
    }
  }
}
```

### 5.3 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:8081');
  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);
});
```

### 5.4 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'
    }
  });
}
```

### 5.5 api/home.tsx #

src/api/home.tsx

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

### 5.6 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:8081');
  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);
});
```

### 5.7 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/app.js #

```
let lessons = require('./mock/lessons');

app.get('/getLessons/: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({
      list,
      hasMore:total>offset+limit
    });
  }, 1000);
});
```

### 6.2 mock/lessons.js #

server/mock/lessons.js

```
module.exports = [
  {
    id: 1,
    title: '1.React全栈架构',
    "video": "http://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7x1l5b.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://7xl5b.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'
  }
]

```

### 6.3 api/home.tsx #

src/api/home.tsx

```

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

```

src/components/HomeHeader/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('../..../common/images/logo.png');
export interface Props{
  currentCategory?: any,
  setCurrentCategory?: any,
  fetchLessons:any
}
export default class HomeHeader extends React.Component<Props> {
  state={
    showList:false
  }
  setCurrentCategory=(event:any) => {
    let category=event.target.dataset.category;
    this.setState({ showList: false }, () => {
      this.props.setCurrentCategory(category);
      this.props.fetchLessons();
    });
  }
  render() {
    let {currentCategory}=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-uulist">i>
            }
          </div>
        </div>
        <div>
          <TransitionGroup>
            {
              this.state.showList?<<CSSTransition
                timeout={500}
                classNames="fade"
              ><ul className="menu-list" onClick={this.setCurrentCategory}>
                <li data-category="react" className={currentCategory=='react'? 'active':''}>Reactli>
                <li data-category="vue" className={currentCategory=='vue'? 'active':''}>VueLi>
              </ul></CSSTransition>
            }
          </TransitionGroup>
        </div>
      </div>
    );
  }
}

```

### 6.5 Home/index.tsx #

src/containers/Home/index.tsx

```

import * as React from 'react';
import HomeHeader from '../../components/HomeHeader';
import actions from '../../store/actions/home';
import { Store } from '../../store/types';
import { connect } from 'react-redux';
import HomeSwiper from '../../components/HomeSwiper';
import './index.less';
import HomeLessons from './HomeLessons';
export interface Props {
  currentCategory?: any,
  setCurrentCategory?: any,
  sliders: any,
  getSliders: any,
  fetchLessons: any,
  lessons: any
}
class Home extends React.Component<Props> {
  mainContent: any
  componentDidMount() {
    this.props.getSliders();
    this.props.fetchLessons();
  }
  render() {
    let {currentCategory, setCurrentCategory, fetchLessons, lessons} = this.props;
    return (
      <React.Fragment>
        <HomeHeader
          currentCategory={currentCategory}
          setCurrentCategory={setCurrentCategory}
          fetchLessons={fetchLessons}
        />
        <div className="main-content" ref={ref => this.mainContent=ref}>
          <HomeSwiper sliders={this.props.sliders} />
          <HomeLessons
            lessons={lessons}
            fetchLessons={this.props.fetchLessons}
          />
        </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 SET_CURRENT_CATEGORY = 'SET_CURRENT_CATEGORY';
export const SET_HOME_SLIDERS = 'SET_HOME_SLIDERS';

export const SET_LOADING_LESSONS = 'SET_LOADING_LESSONS';
export const SET_LESSONS = 'SET_LESSONS';
export const FETCH_LESSONS = 'FETCH_LESSONS';

```

## 6.7 actions/home.tsx #

src/store/actions/home.tsx

```

import * as types from '../action-types';
import {getSliders, getLessons} from '../../api/home';
export interface setCurrentCategory {
  type: typeof types.SET_CURRENT_CATEGORY,
  currentCategory: string
}
export type Action = any;
export default {
  setCurrentCategory(currentCategory: string): setCurrentCategory {
    return { type: types.SET_CURRENT_CATEGORY, currentCategory };
  },
  getSliders() {
    return function(dispatch: any, getState: any) {
      getSliders().then((sliders: any) => {
        dispatch({type: types.SET_HOME_SLIDERS, payload: sliders});
      });
    }
  },
  fetchLessons() {
    return (dispatch: any, getState: any) => {
      let {currentCategory, lessons: {hasMore, offset, limit, loading}} = getState().home;
      if (hasMore && !loading) {
        dispatch({type: types.SET_LOADING_LESSONS, payload: true});
        getLessons(currentCategory, offset, limit).then(payload => {
          dispatch({type: types.FETCH_LESSONS, payload});
        });
      }
    }
  }
}

```

## 6.8 reducers/home.tsx #

src/store/reducers/home.tsx

```
import * as types from '../action-types';
import { Home } from '../types';
import { Action } from '../actions/home';
export default function (state: Home={ currentCategory: 'all',sliders:[],lessons:{loading:false,hasMore:true,list:[],offset:0} },action: Action): Home {
  switch (action.type) {
    case types.SET_CURRENT_CATEGORY:
      return { ...state,currentCategory: action.currentCategory };
    case types.SET_HOME_SLIDERS:
      return { ...state,sliders: action.payload };
    case types.FETCH_LESSONS:
      return {
        ...state,
        lessons: {
          ...state.lessons,
          loading: false,
          hasMore:action.payload.hasMore,
          list: action.payload.list,
          offset:action.payload.list.length
        }
      };
    default:
      return state;
  }
}
```

## 6.9 types/index.tsx #

src/store/types/index.tsx

```
export interface Store{
  home: Home
}
export interface Home{
  currentCategory: string,
  sliders: string[],
  lessons:any
}
export interface Props{
  children?: any,
}
```

## 6.10 Loading/index.tsx #

src/components/Loading/index.tsx

```
import * as React from 'react';
import './index.less'
export interface Props{
  children?: any,
}
export default class Loading extends React.Component<Props> {
  render() {
    return (
      <div className="loading">
        loading
      </div>
    );
  }
}
```

## 6.11 HomeLessons/index.tsx #

src/containers/Home/HomeLessons/index.tsx

```
import * as React from 'react';
import './index.less';
import Loading from '../../../components/Loading';
import { Link } from 'react-router-dom';
interface Props {
  lessons: any,
  fetchLessons:any
}
export default class HomeLessons 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>
          </i>
        </div>
        {
          list.length>0?list.map((item:any,index:number)=>(
            <Link key={index} to={`/${pathname}/${detail}/${item.id}`,state:item}>
              <div key={index} className="lesson">
                <img src={item.poster}/>
                <p>{item.title}</p>
                <p>{item.price}</p>
              </div>
              <Link>
            </Link>
          )):<div className="no-data">暂无数据</div>
        }
        {
          loading?<Loading/>:(!hasMore&& <div className="loading-more" >到底了</div>)
        }
      </div>
    )
  }
}
```

## 6.12 HomeLessons/index.less #

src/containers/Home/HomeLessons/index.less

```

.home-lessons{
  width:100%;
  box-sizing: border-box;
  padding:7.5px;
  .all-lessons{
    margin:10px 0;
    span{
      margin-left:8px;
    }
  }
  .no-data{
    width:100%;
    height:35px;
    line-height: 35px;
    border-radius: 5px;
    color:#000;
    text-align:center;
  }
  .lesson{
    overflow: hidden;
    margin-bottom:17px;
    border-radius: 8px;
    box-shadow: 1px 1px 3px 2px #c1c1c1,-1px -1px 3px 2px #c1c1c1;
    img{
      width:100%;
      height:140px;
      border-radius: 8px 8px 0 0;
    }
    p{
      height:37px;
      text-align: center;
      line-height: 37px;
      &:nth-child(2){
        color:#b3b3b3;
      }
      &:nth-child(3){
        color:#ed3a3a;
      }
    }
  }
  .loading-more{
    width:100%;
    height:35px;
    line-height: 35px;
    border-radius: 5px;
    background-color:seagreen;
    color:#FFF;
    text-align:center;
  }
}

```

**\*\* 7. 加载更多 # \*\***

## 7.1 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);
});
let lessons = require('./mock/lessons');
app.get('/getLessons/: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({
      list,
      hasMore:total>offset+limit
    });
  },1000);
});

```

## 7.2 Loading/index.less #

src/components/Loading/index.less

```
.loading{
  width:100%;
  height:43px;
  line-height: 43px;
  text-align: center;
  img{
    height:43px;
    width:43px;
  }
}
```

### 7.3 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 interface Props{
  children?: any,
}
export default class Loading extends React.Component<Props> {
  render() {
    return (
      <div className="loading">
        <img src={loading}/>
      </div>
    );
  }
}
```

### 7.4 HomeLessons/index.tsx #

src/containers/Home/HomeLessons/index.tsx

```
import * as React from 'react';
import './index.less';
import Loading from '../../components/Loading';
import { Link } from 'react-router-dom';
interface Props {
  lessons: any,
  getLessons:any
}
export default class HomeLessons extends React.Component<Props>{
  render(){
    let { lessons: { list,hasMore,loading },getLessons} = this.props;
    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)=>(
            <Link key={index} to={ {pathname:`/detail/${item.id}`,state:item} }>
              <div key={index} className="lesson">
                <img src={item.poster}/>
                <p>{item.title}</p>
                <p>{item.price}</p>
              </div>
              <Link>
            </Link>
          )):<div className="no-data">暂无数据</div>
        }
        {
          loading?<Loading/>:(hasMore?<div className="loading-more" onClick={getLessons} >加载更多</div>:<div className="loading-more">没有了</div>)
        }
      </div>
    )
  }
}
```

### 7.5 Home/index.tsx #

src/containers/Home/index.tsx

```

import * as React from 'react';
import HomeHeader from '../HomeHeader';
import actions from '../../store/actions/home';
import { Store } from '../../store/types';
import { connect } from 'react-redux';
import HomeSwiper from './HomeSwiper';
import HomeLessons from './HomeLessons';
import './index.less';

export interface Props {
  currentCategory?: any,
  setCurrentCategory?: any,
  sliders: any,
  getSliders: any,
  getLessons: any,
  lessons: any,
  refreshLessons: any
}

class Home extends React.Component<Props> {
  mainContent: any
  componentDidMount() {
    this.props.getSliders();
    this.props.getLessons();
  }
  render() {
    let {currentCategory, setCurrentCategory, getLessons, lessons, refreshLessons}=this.props;
    return (
      <React.Fragment>
        <HomeHeader
          currentCategory={currentCategory}
          setCurrentCategory={setCurrentCategory}
          refreshLessons={refreshLessons}
        />
        <div className="main-content" ref={ref => this.mainContent=ref}>
          <HomeSwiper sliders={this.props.sliders} />
          <HomeLessons
            lessons={lessons}
            getLessons={getLessons}
          />
        </div>
      </React.Fragment>
    );
  }
}

export default connect(
  (state:Store)=>state.home,
  actions
)(Home);

```

## 7.6 store/action-types.tsx #

src/store/action-types.tsx

```

export const SET_HOME_LESSONS_LOADING='SET_HOME_LESSONS_LOADING';

export const ADD_HOME_LESSONS='ADD_HOME_LESSONS';

export const REFRESH_HOME_LESSONS_LOADING='REFRESH_HOME_LESSONS_LOADING';

export const REFRESH_HOME_LESSONS='REFRESH_HOME_LESSONS';

```

## 7.7 actions/home.tsx #

src/store/actions/home.tsx

```

import * as types from '../action-types';
import {getSliders,getLessons} from '../api/home';
export interface setCurrentCategory{
  type: typeof types.SET_CURRENT_CATEGORY,
  currentCategory:string
}
export type Action=any;
export default {
  setCurrentCategory(currentCategory:string): setCurrentCategory {
    return { type: types.SET_CURRENT_CATEGORY,currentCategory };
  },
  getSliders() {
    return function(dispatch:any,getState:any) {
      getSliders().then((sliders:any)=>{
        dispatch({type:types.SET_HOME_SLIDERS,payload:sliders});
      });
    }
  },
  getLessons() {
    return (dispatch:any,getState:any) => {
      let {currentCategory,lessons: {hasMore,offset,limit,loading}}=getState().home;
      if (hasMore && !loading) {
        dispatch({type:types.SET_HOME_LESSONS_LOADING,payload:true});
        getLessons(currentCategory,offset,limit).then(payload => {
          dispatch({type: types.ADD_HOME_LESSONS,payload});
        });
      }
    }
  },
  refreshLessons() {
    return function(dispatch:any,getState:any) {
      let {currentCategory,lessons: {limit,loading}}=getState().home;
      if (!loading) {
        dispatch({type:types.REFRESH_HOME_LESSONS_LOADING});
        getLessons(currentCategory,0,limit).then(payload=>{
          dispatch({type:types.REFRESH_HOME_LESSONS,payload});
        });
      }
    }
  }
}

```

## 7.8 reducers/home.tsx #

src/store/reducers/home.tsx

```

import * as types from '../action-types';
import { Home } from '../types';
import {Action} from '../actions/home';
export default function (state: Home={ currentCategory: 'all',sliders:[],lessons:{loading:false,hasMore:true,list:[],offset:0 } ,action: Action): Home {
  switch (action.type) {
    case types.SET_CURRENT_CATEGORY:
      return { ...state,currentCategory: action.currentCategory };
    case types.SET_HOME_SLIDERS:
      return { ...state,sliders: action.payload };
    case types.SET_HOME_LESSONS_LOADING:
      return {...state,lessons:{
        ...state.lessons,
        loading:action.payload
      }};
    case types.ADD_HOME_LESSONS:
      return {...state,lessons:{
        ...state.lessons,
        list:[...state.lessons.list,...action.payload.list],
        hasMore:action.payload.hasMore,
        offset:state.lessons.offset+action.payload.list.length,
        loading:false
      }};
    case types.REFRESH_HOME_LESSONS_LOADING:
      return {...state,lessons:{
        ...state.lessons,
        list:[],
        hasMore:true,
        offset:0,
        loading:true
      }};
    case types.REFRESH_HOME_LESSONS:
      return {...state,lessons:{
        ...state.lessons,
        list:action.payload.list,
        hasMore:action.payload.hasMore,
        offset:action.payload.list.length,
        loading:false
      }};
    default:
      return state;
  }
}

```

src/containers/Home/HomeHeader/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('.././././common/images/logo.png');
export interface Props{
  currentCategory?: any,
  setCurrentCategory?: any,
  refreshLessons:any
}
export default class HomeHeader extends React.Component<Props> {
  state={
    showList:false
  }
  setCurrentCategory=(event:any) => {
    let category=event.target.dataset.category;
    this.props.setCurrentCategory(category);
    this.setState({ showList: false },this.props.refreshLessons);
  }
  render() {
    let {currentCategory}=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-uili">i>
            }
          </div>
        </div>
        <TransitionGroup>
          {
            this.state.showList?<CSSTransition
              timeout={500}
              classNames="fade"
            ><ul className="menu-list" onClick={this.setCurrentCategory}>
              <li data-category="react" className={currentCategory=='react'?'active':''}>Reactli>
              <li data-category="vue" className={currentCategory=='vue'?'active':''}>VueLi>
            </ul>CSSTransition>
          }
        </TransitionGroup>
      </div>
    );
  }
}

```

7.10 #

7.11 HomeSwiper/index.tsx #

src/containers/Home/HomeSwiper/index.tsx

```

import * as React from 'react';
import * as ReactSwipe from 'react-swipe';
import './index.less';
interface Props{
  sliders:any
}
export interface State{
  index:number
}
export default class Swiper extends React.Component<Props,State> {
  state={ index:0}
  render() {
    let options={
      continuous: true,
      auto: 3000,
      callback: (index: number) => {
        this.setState({index});
      }
    }
    let swiper=(
      <ReactSwipe className="carousel" swipeOptions={options}>
        {this.props.sliders.map((item:string,index:number) => (
          <div key={index}><img src={item}/>div>
        ))}
      </ReactSwipe>
    )
    return (
      <div className="home-sliders">
        {this.props.sliders.length>0? swiper:null}
        <div className="dots">
          {
            this.props.sliders.map((item:string,index:number) => (
              <span key={index} className={`dot ${this.state.index ==index?'active':''}`}>span>
            ))
          }
        </div>
      </div>
    );
  }
}

```

\*\* 8. 上拉加载 #\*\*

8.1 Home/index.tsx #

src/containers/Home/index.tsx

```

import * as React from 'react';
import HomeHeader from '../HomeHeader';
import actions from '../store/actions/home';
import { Store } from '../store/types';
import { connect } from 'react-redux';
import HomeSwiper from './HomeSwiper';
import HomeLessons from './HomeLessons';
import './index.less';
import {loadMore,downReferesh} from '../utils';
export interface Props{
  currentCategory?: any,
  setCurrentCategory?: any,
  sliders: any,
  getSliders: any,
  getLessons: any,
  lessons: any,
  refreshLessons:any
}
class Home extends React.Component<Props> {
  mainContent: any
  componentDidMount() {
    this.props.getSliders();
    this.props.getLessons();
    loadMore(this.mainContent,this.props.getLessons);
    downReferesh(this.mainContent,this.props.refreshLessons);
  }
  render() {
    let {currentCategory,setCurrentCategory,getLessons,lessons,refreshLessons}=this.props;
    return (
      <React.Fragment>
        <HomeHeader
          currentCategory={currentCategory}
          setCurrentCategory={setCurrentCategory}
          refreshLessons={refreshLessons}
        />
        <div className="main-content" ref={ref => this.mainContent=ref}>
          <HomeSwiper sliders={this.props.sliders} />
          <HomeLessons
            lessons={lessons}
            getLessons={getLessons}
          />
        </div>
      </React.Fragment>
    );
  }
}
export default connect(
  (state:Store)=>state.home,
  actions
)(Home);

```

## 8.2 src/utils.tsx #

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 originTop=element.offsetTop;
  element.addEventListener('touchstart',function(event:any) {
    if(element.offsetTop == originTop && 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 = originTop+distance+'px';
      }else{
        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';
          clearInterval(timer);
        }else{
          element.style.top = originTop+(--distance)+'px';
        }
      },13);
      if(distance>30) {
        callback();
      }
    }
  });
}

```

\*\* 9. 课程详情 <#> \*\*

### 9.1 src/index.tsx <#>

```

import * as React from 'react';
import * as ReactDOM from 'react-dom';
import Home from './containers/Home';
import Detail from './containers/Detail';
import Profile from './containers/Profile';
import App from './containers/App';
import { Provider } from 'react-redux';
import store from './store';
import { Route } from 'react-router-dom';
import { ConnectedRouter } from 'connected-react-router'
import history from './store/history';
ReactDOM.render((
  <Provider store={store}>
    <ConnectedRouter history={history}>
      <App>
        <Route exact path="/" component={Home} />
        <Route path="/detail/:id" component={Detail} />
        <Route path="/profile" component={Profile}/>
      </App>
    </ConnectedRouter>
  </Provider>
),document.getElementById('root'));

```

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>
      </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;
  }
}
```

#### 9.4 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="/" />
    )
  }
}
```

#### 9.5 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;
    }
  }
}
```

\*\* 10. 记住滚动条位置 #\*\*

#### 10.1 Home/index.tsx #

src/containers/Home/index.tsx

```
componentDidMount() {
  if (this.props.lessons.list.length == 0) {
    this.props.getSliders();
    this.props.getLessons();
  } else {
    this.mainContent.scrollTop=store.get('scrollTop');
  }
  loadMore(this.mainContent, this.props.getLessons);
  downReferesh(this.mainContent, this.props.refreshLessons);
}

componentWillUnmount() {
  store.set('scrollTop', this.mainContent.scrollTop);
}
```

#### 10.2 src/utlis.tsx #

src/utlis.tsx

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

**\*\* 11. 个人中心 #\*\***

### 11.1 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</Link>
          </div>
        </div>
      </div>
    )
  }
}
```

### 11.2 Profile/index.less #

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;
        }
      }
    }
  }
}
```

**\*\* 12. 登录 #\*\***

### 12.1 src/index.tsx #

src/index.tsx

+

### 12.2 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</Link>
        <button>登录button</button>
      </div>
    )
  }
}

```

### 12.3 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%;
    background-color: #188AE4;
    color:#FFF;
    height:40px;
    line-height: 40px;
    text-align:center;
    font-size:16px;
    border-radius:5px;
  }
}

```

\*\* 13.注册 #\*\*

### 13.1 src/index.tsx #

### 13.2 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 Login 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</Link>
        <button>注册button</button>
      </div>
    )
  }
}

```

### 13.3 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;
  }
}

```

\*\* 14. 实现会话 #\*\*

### 14.1 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('/sliders',function (req,res) {
  res.json(sliders);
});
let lessons = require('./mock/lessons');

app.get('/getLessons/: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({
      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',
    });
  }
});

```

## 14.2 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());
}

```

#### 14.3 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 '../../store/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</Link>
        <button onClick={this.handleLogin}>登录button</button>
      </div>
    )
  }
}
export default connect(
  (state:Store)=>state.session,actions
)(Login);

```

#### 14.4 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 '../../store/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</Link>}
          </div>
        </div>
      </div>
    )
  }
}
export default connect(
  (state:Store)=>state.session,actions
)(Profile);

```

#### 14.5 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 '../store/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>
        </div>
      )
    )
  }
}

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

```

#### 14.6 action-types.tsx #

src/store/action-types.tsx

```

export const SET_CURRENT_CATEGORY='SET_CURRENT_CATEGORY';
export const SET_HOME_SLIDERS='SET_HOME_SLIDERS';

export const SET_HOME_LESSONS_LOADING='SET_HOME_LESSONS_LOADING';

export const ADD_HOME_LESSONS='ADD_HOME_LESSONS';

export const REFRESH_HOME_LESSONS_LOADING='REFRESH_HOME_LESSONS_LOADING';

export const REFRESH_HOME_LESSONS='REFRESH_HOME_LESSONS';

export const REG = 'REG';

export const LOGIN = 'LOGIN';

export const LOGOUT = 'LOGOUT';

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

```

#### 14.7 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({
  home,
  session,
  router: connectRouter(history)
});
export default reducers;

```

#### 14.8 types/index.tsx #

src/store/types/index.tsx

```

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

export interface Props{
  children?: any,
}

```

#### 14.9 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');
}
```

#### 14.10 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 }
        });
      })
    }
  }
}
```

#### 14.11 reducers/session.tsx #

src/store/reducers/session.tsx

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

let initState = {
  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;
  }
}
```

**\*\* 15. 受保护路由 #\*\***

### 15.1 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 '../../../store/types';

interface Props{
  path: any,
  component: any,
  user:any
}

class PrivateRoute extends React.Component<Props> {
  render() {
    let { path,component: Comp,user }=this.props;
    console.log('user',user)
    if(user){
      return <Route path={path} render={ (props) => user? <Comp {...props} />:<Redirect to="/login" /> } />;
    }else{
      return <Redirect to="/login"/>;
    }
  }
}

export default connect(
  (state:Store) => state.session
)(PrivateRoute)
```

### 15.2 src/index.tsx #

```
import PrivateRoute from './containers/PrivateRoute';
<PrivateRoute path="/profile" component={Profile} />
```

**\*\* 参考 #\*\***

- [typescript-tetang \(https://gitee.com/zhufengpeixun/typescript-tetang.git\)](https://gitee.com/zhufengpeixun/typescript-tetang.git)