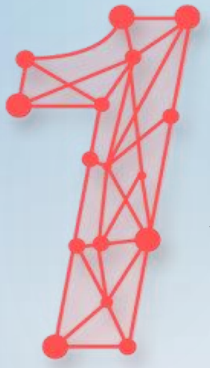
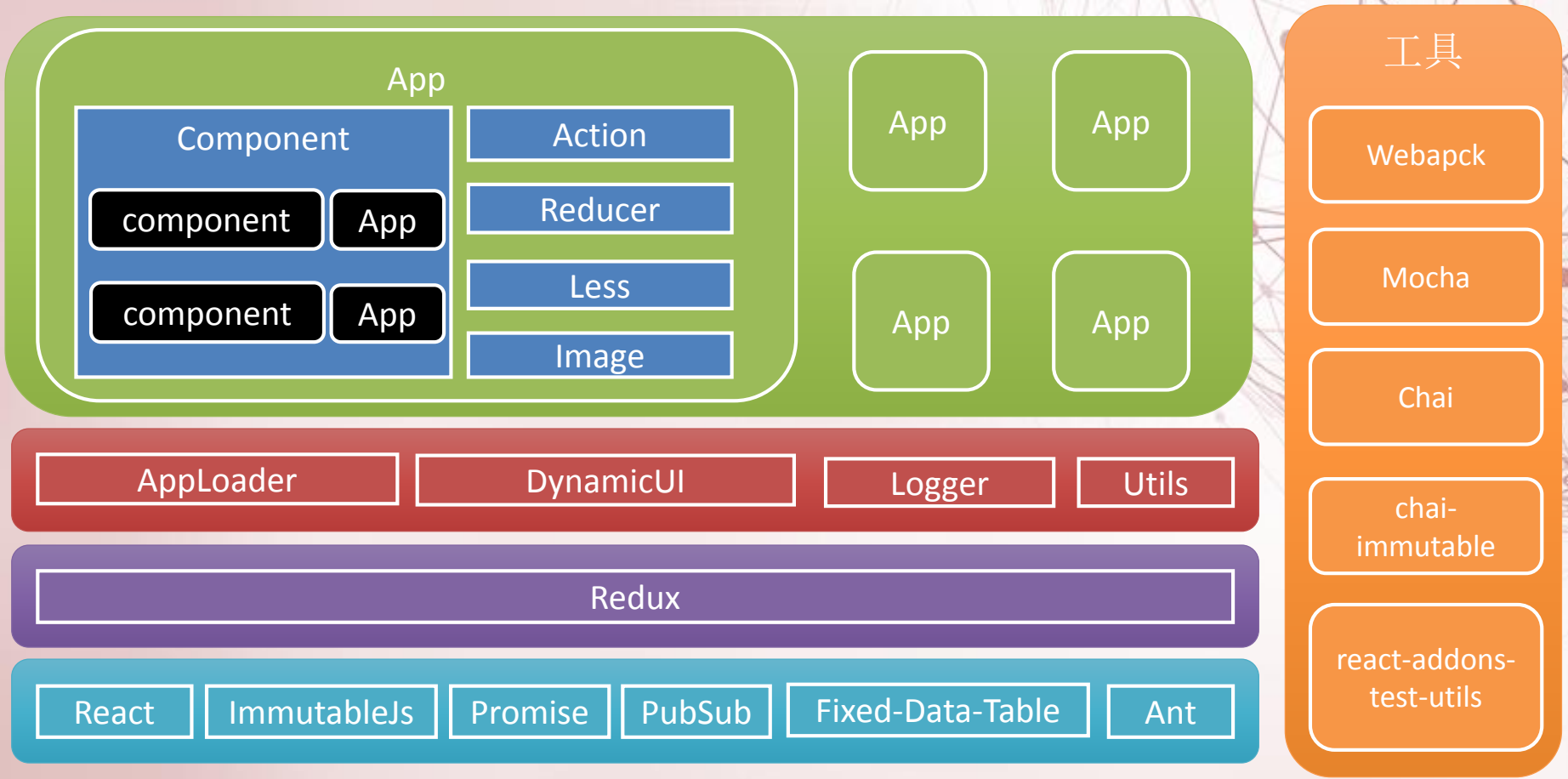


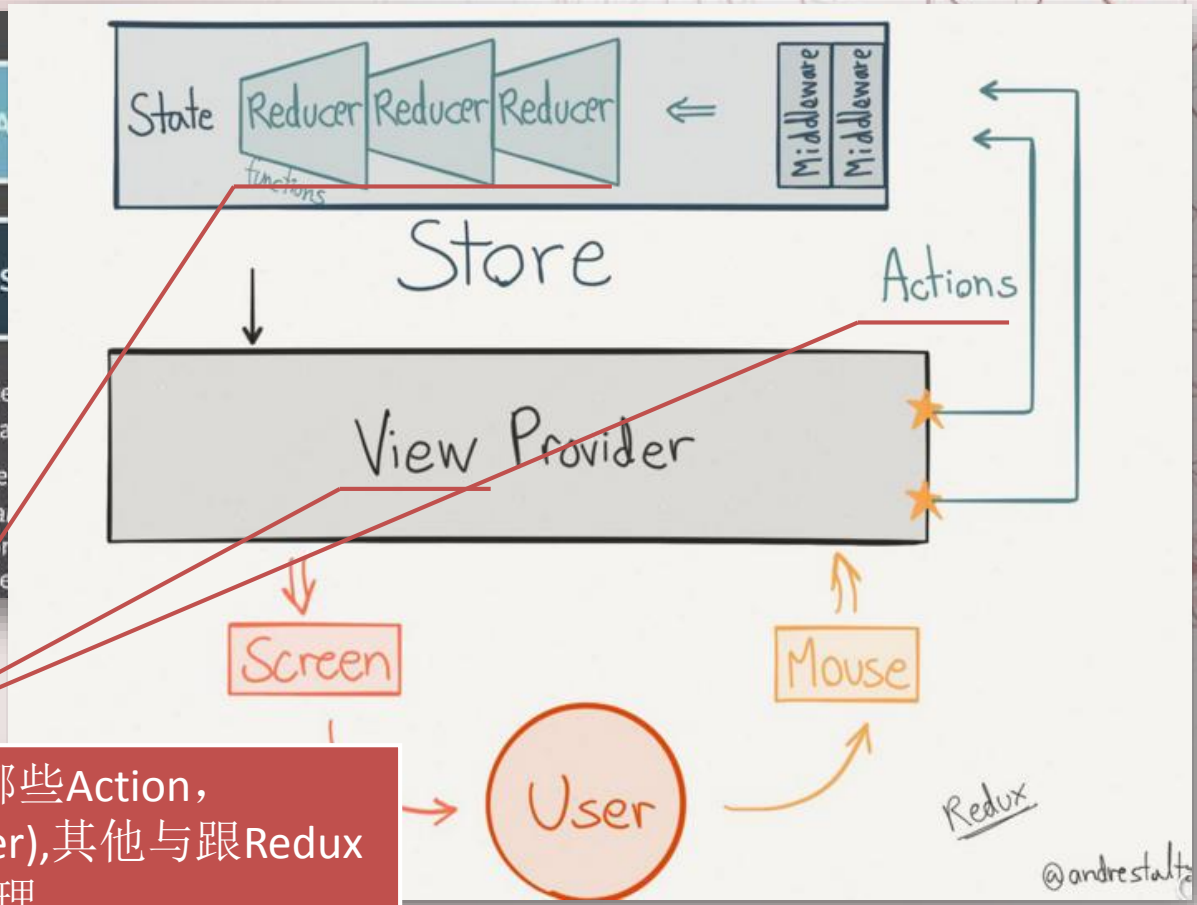
基于React前端框架

Monkey King

开发框架


App
Component
component
App
component
App
Action
Reducer
Less
Image
App
App
App
App
AppLoader
DynamicUI
Logger
Utils
Redux
React
ImmutableJs
Promise
PubSub
Fixed-Data-Table
Ant
工具
Webapck
Mocha
Chai
chai-immutable
react-addons-test-utils

开发框架-Flux， Redux



领域开发只需关心纯组件，有哪些Action，
以及Action对State的影响(reducer),其他与跟Redux相关的东西有AppLoader黑盒处理

开发框架-特点

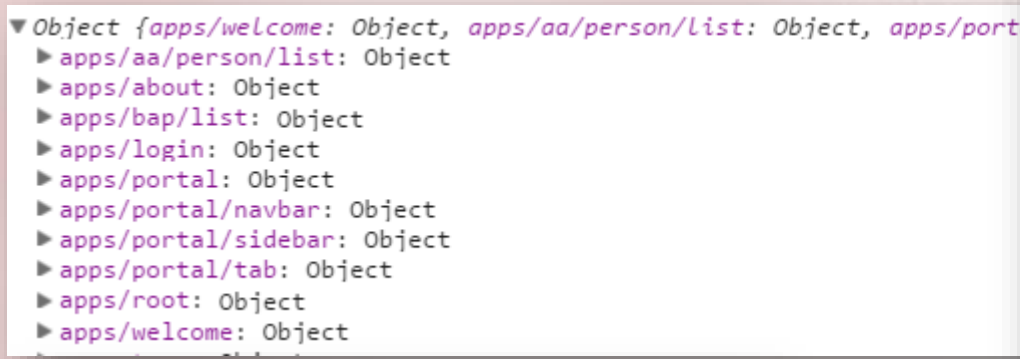
1、单页面
2 、 app=component + action + reducer,Redux框架不可见
3、app path隔离state
4、state采用immutable数据类型
5、支持app方式扩展、二次开发
6、app间消息通信，支持事件回调或者发布订阅
7、按需加载app
8、可测试驱动开发TDD

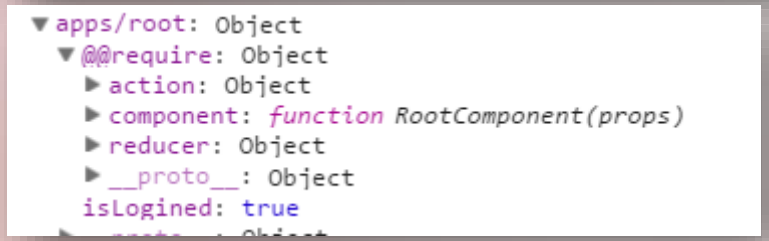
开发框架-状态

- State用于存储前端的数据
- 用App的path隔离
- Path格式有两部分path+query

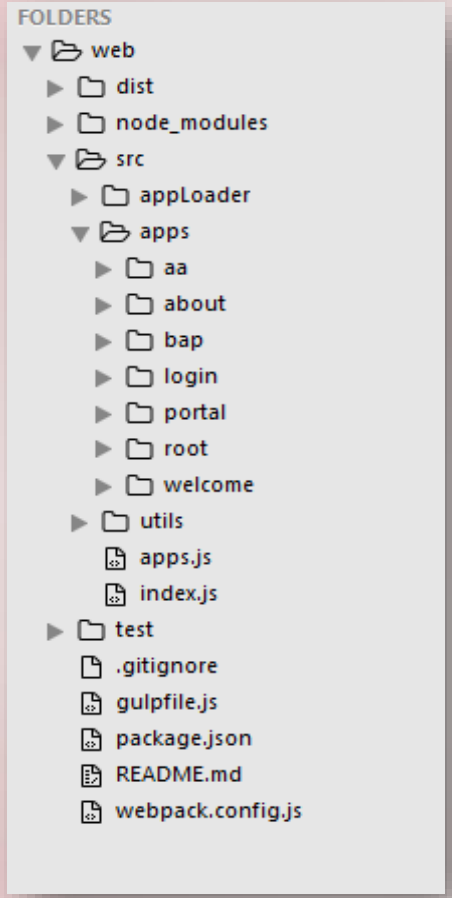
<AppLoader path='apps/portal' />

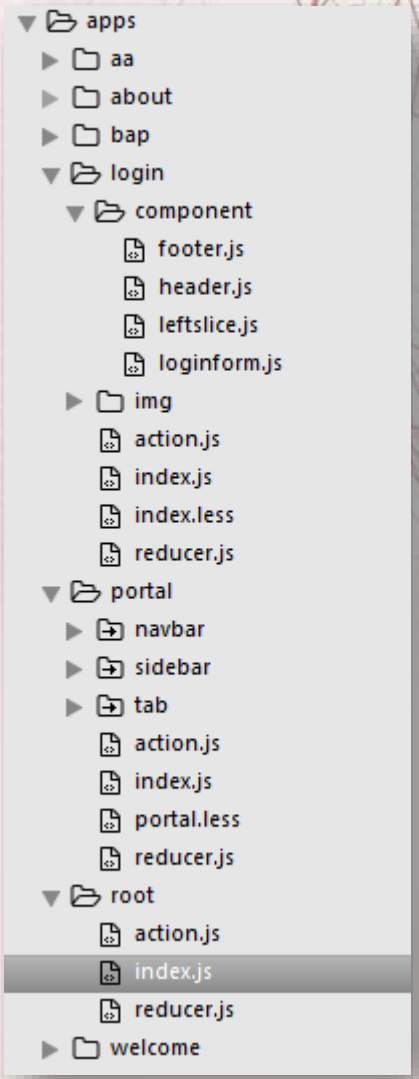
<AppLoader path='apps/bap/list?from=menu&s





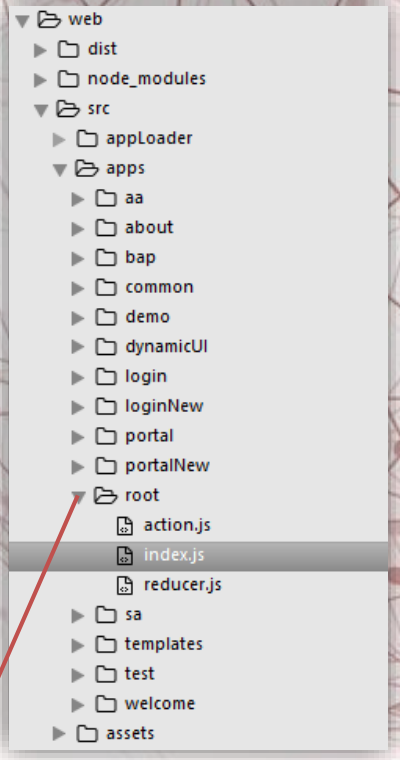
开发框架-目录结构


FOLDERS
web
dist
node_modules
src
appLoader
apps
aa
about
bap
login
portal
root
welcome
utils
apps.js
index.js
test
.gitignore
gulpfile.js
package.json
README.md
webpack.config.js


apps
aa
about
bap
login
component
footer.js
header.js
leftslice.js
loginform.js
img
action.js
index.js
index.less
reducer.js
portal
navbar
sidebar
tab
action.js
index.js
portal.less
reducer.js
root
action.js
index.js
reducer.js
welcome

开发框架-index代码

```
1  import React from 'react'
2  import { render } from 'react-dom'
3  import Perf from 'react-addons-perf'
4  import { createStore, applyMiddleware } from 'redux'
5  import { Provider, connect } from 'react-redux'
6  import { Map } from 'immutable'
7  import promise from 'es6-promise'
8  import logger from 'redux-logger'
9  import { AppLoader, appMiddleware, reducer } from './appLoader'
10 import { fetchWrapper } from './utils'
11 import tplusUtil from './utils/tplusUtil'
12 import apps from './apps'
13 import './assets/styles/index.less'
14
15 const middleware = [appMiddleware(apps, {...fetchWrapper }, {}), logger()]
16
17 const store = createStore(reducer, Map(), applyMiddleware(...middleware))
18
19 window.Perf = Perf
20
21 promise.polyfill()
22
23 render(
24     <Provider store ={store}>
25         <AppLoader path='apps/root' />
26     </Provider>,
27     document.getElementById('app')
28 )
```



App需要指定路径

开发框架-App(root）

Component

```
import React from 'react'
import {AppLoader} from '../../appLoader'

export default class RootComponent extends React.Component{
    constructor(props){...
    }

    handleLoginSuccess(){
        //Action Export的方法已经被注入到component,可以this.props.action(…args)直接调用
        this.props.auth(true)
        sessionStorage["root/logined"] = "1";
    }

    handleLogoutSucess(){...
    }

    render(){
        //App按path隔离的state在this.props.payload中获取
        //从root应用状态中获取是否登录标志
        let isLogined = this.props.payload.get('isLogined') || false
        //已经登录加载portal应用，未登录显示登录应用
        return (isLogined ?
            <AppLoader path='apps/portalNew'
                onLogoutSucess = { ::this.handleLogoutSucess }
            />:
            <AppLoader path='apps/loginNew'
                ref='login'
                version='pro'
                onLoginSuccess= { ::this.handleLoginSuccess }
            />
        )
    }
}
```

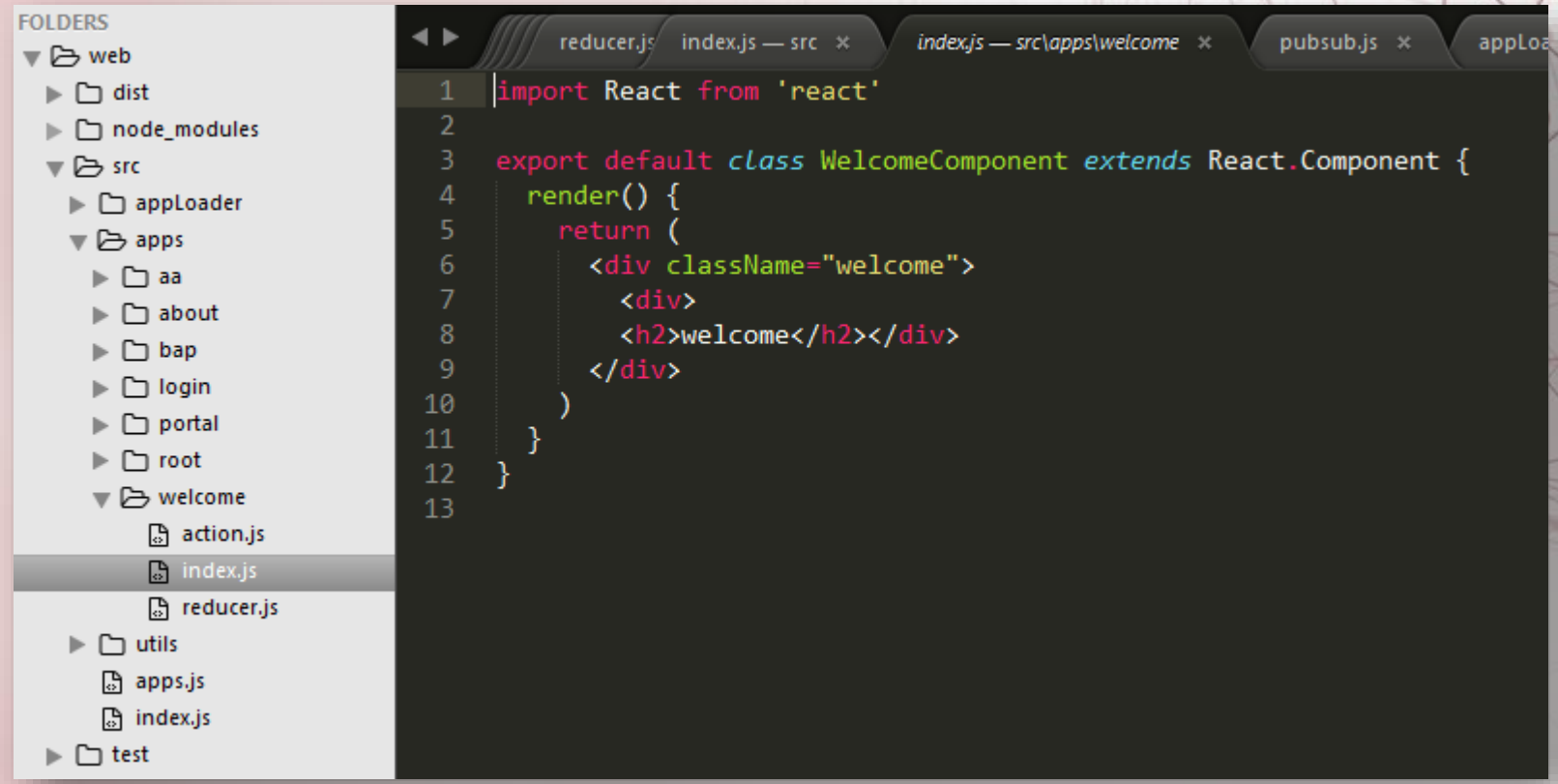
Action

```
export function auth (logined = true){
    /*
    Reduce函数是AppMiddleware中间件注入的，
    执行reduce('reducer function name', …args)会返回一个Action行为，
    然后redux Dispatch接管调用到reducer
    */
    return ({reduce})=>reduce('auth',logined)
}
```

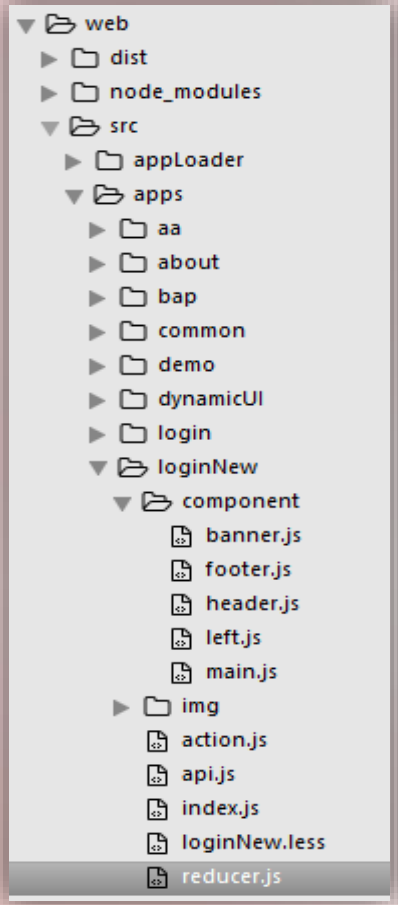
Reducer

```
/*
reducer函数，状态变化的处理函数
函数第一参数是旧的state,后面的是参数
函数返回新的state给redux,通知component重新render
 */
export function auth(state,logined){
    return state.set('isLogined', logined)
}
```

开发框架-App（welcome）



开发框架-App（login）

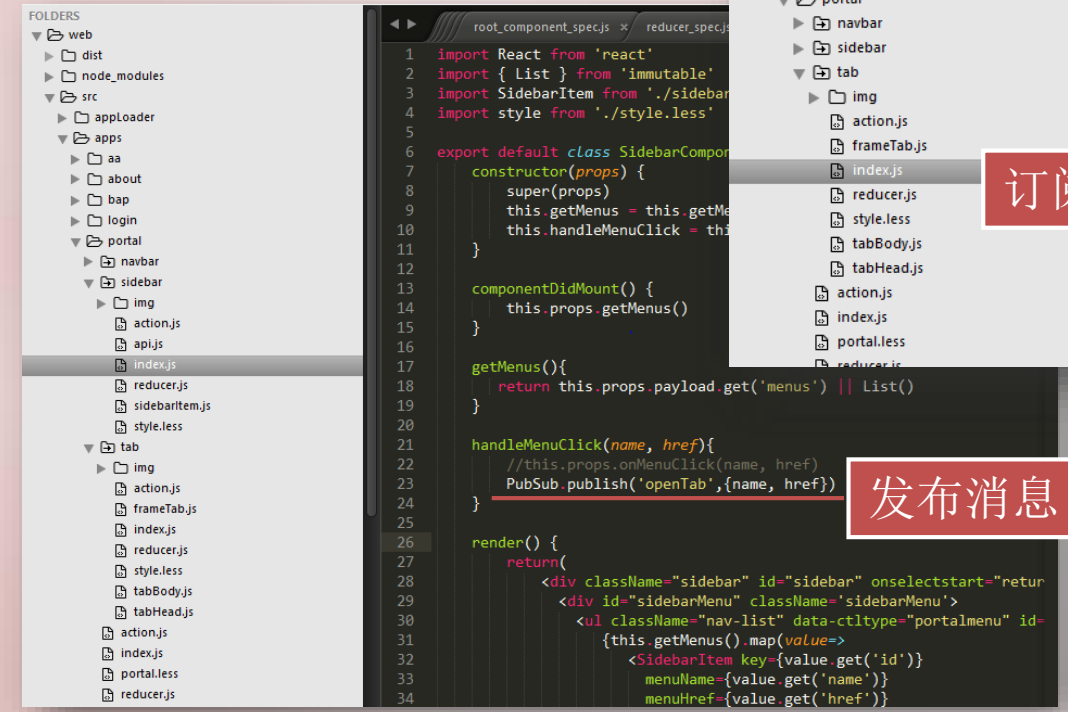



```jsx
import React,{ Component,PropTypes } from 'react'
import Header from './component/header'
import Footer from './component/footer'
import Left from './component/left'
import Main from './component/main'
import styles from "./loginNew.less"
import {MessageBox} from '../dynamicUI/MessageBox'

export default class LoginNewComponent extends Component {
    static defaultProps = {
        prefixCls: 'login'
    }

    constructor(props){
        super(props)
    }

    componentDidMount() {
        this.props.initView()
    }

    render() {
        if(!this.props.payload || !this.props.payload.get('utils') )
            return (<div></div>)

        let message = this.props.payload.getIn(['global', 'message'])

        return (
            <div className={this.props.prefixCls}>
                <Header  {...this.props}/>
                <main>
                    <Left  {...this.props}/>
                    <Main  {...this.props}/>
                </main>
                <Footer  {...this.props}/>

                {MessageBox(message)}

            </div>
        )
    }
}
```

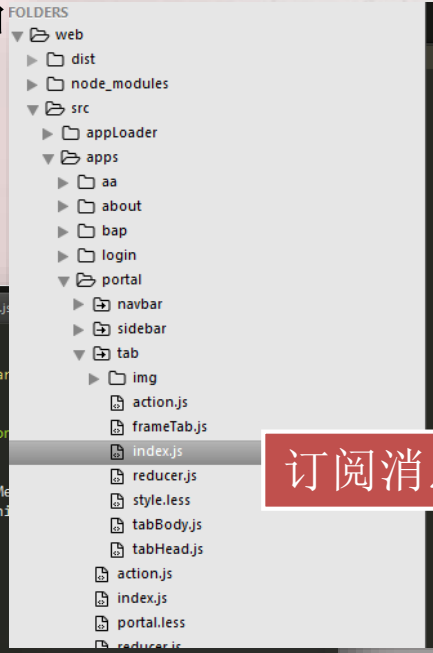
```jsx
import * as da from '../dynamicUI/action'
import Immutable, { Map } from 'immutable'
import * as api from './api'

export function initView() {
}

export function login(callback) {
}


export function getter(injectFuns) {
}

export function onFieldChange(path, oldValue, newValue) {
}

Object.assign(exports, {...da, ...exports })

```

```jsx
import * as dr from '../dynamicUI/reducer'

export function onEvent(state, eventName){
    state = dr.validate(state, 'login')
    return dr.onEvent(state, eventName)
}

export function onFieldChange(state, path, oldValue, newValue){
    return dr.onFieldChange(state, path, oldValue, newValue)
}

Object.assign(exports, {...dr,...exports})

```

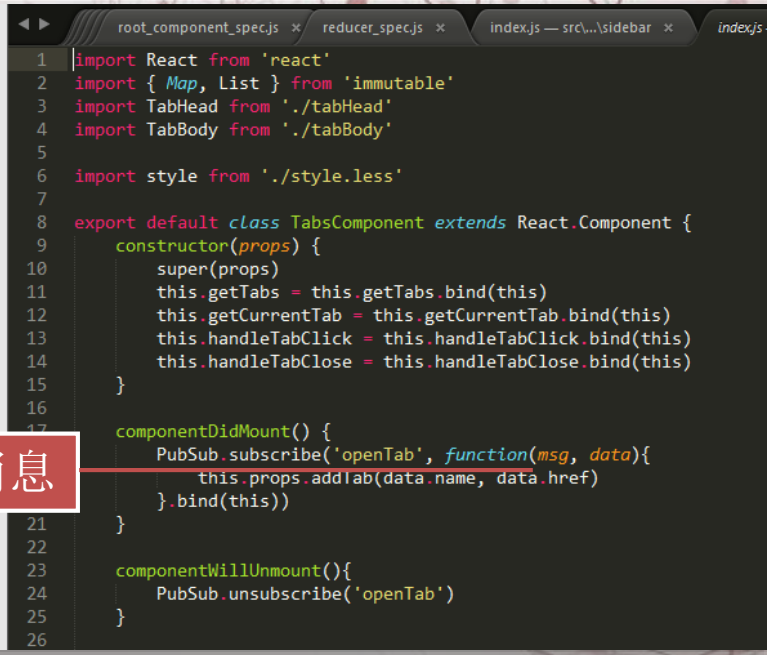
开发框架-消息通信



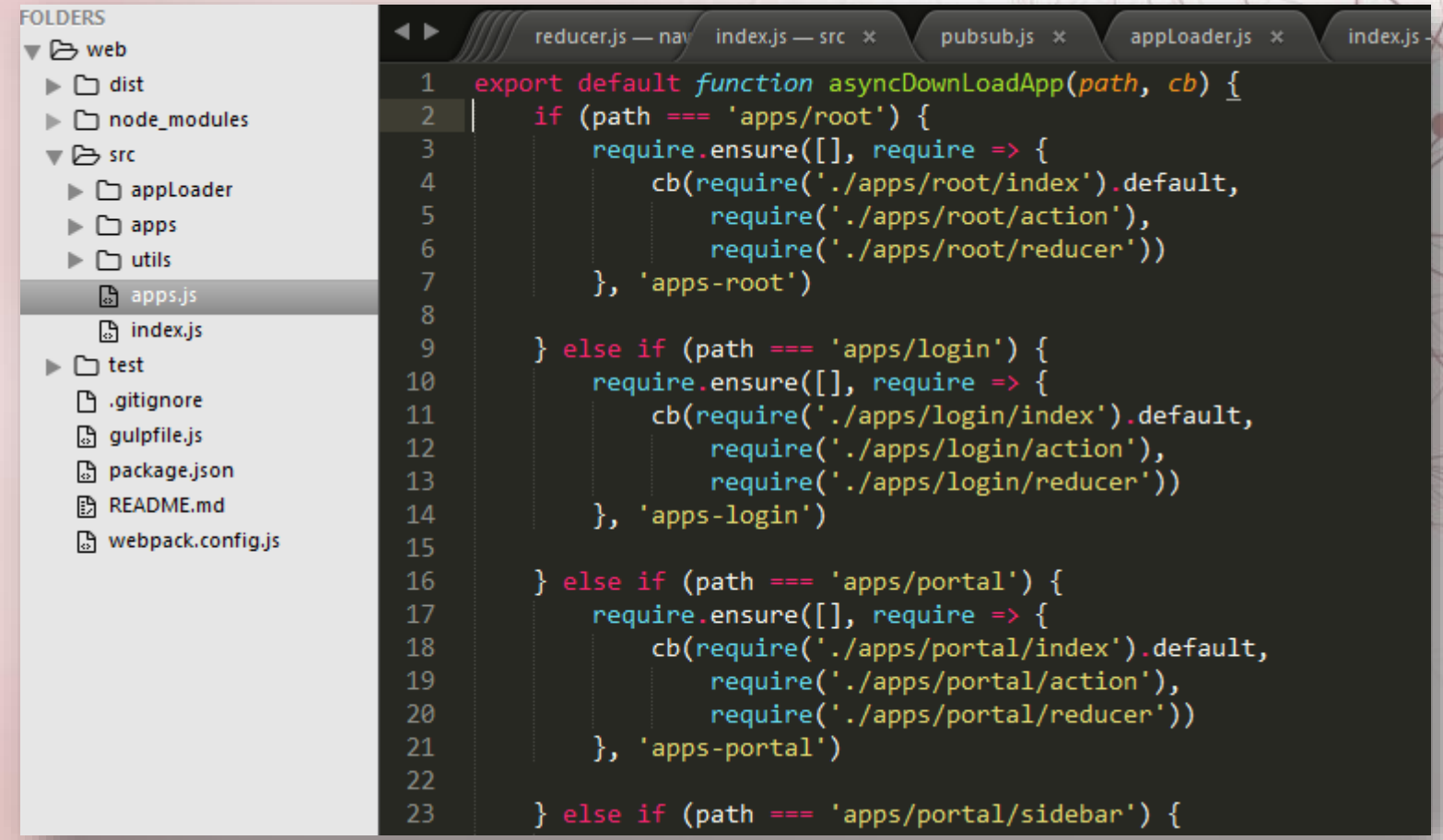
发布消息



订阅消息



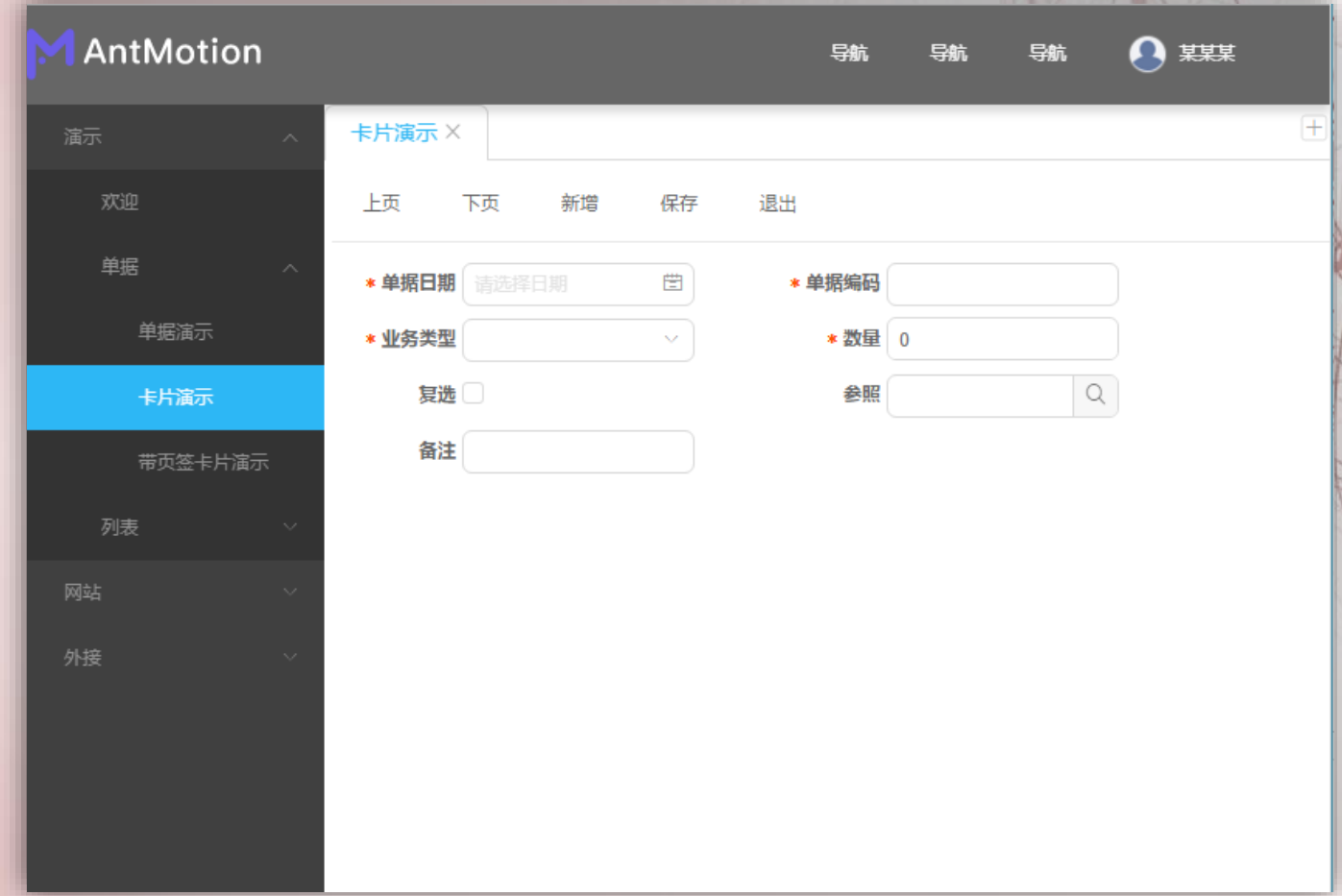
开发框架-异步按需加载配置



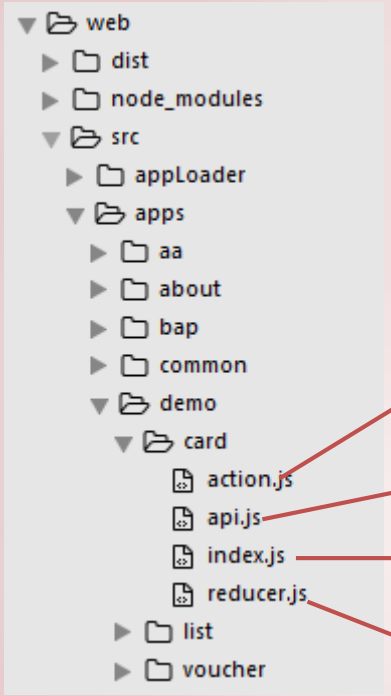
开发框架-动态UI

- 前端UI=控件meta+数据data+程序app
- Meta、Data格式采用json结构
- 可定义Component和Data的绑定关系
- 领域开发不接触dom
- 控件值修改自动同步state
- 程序可以截获每次取值，重写逻辑
- 程序可以截获值变化事件，增加联动逻辑

开发框架-动态UI-Card demo-效果



开发框架-动态UI-Card demo-代码结构



Action，App行为，component可以通过this.props.[action]调用；ajax调用后台通过import api.js调用方法实现

集中Ajax调用后台的函数，ajax调用采用promise

Component，组件包含react component

Reducer，包含state计算的多个函数，每个函数会接收旧的state通过计算返回新的state,通知component重新render

开发框架-动态UI-Card demo-Api

```
1   //用于演示自己写死了json,如果和后端整合，应该通过ajax调用后端rest服务返回数据
2
3   export const addData = {
13  }
14
15  export const cardDemo = {
16      meta: {
99      },
100     data: {
101         toolbar: [{
105         }, {
109         }, {
113         },{
117         }, {
121         }],
122         form: addData
123     }
124 }
125
126 export const cards = [{
136 }, {
146 }, {
156 }]
157
```

开发框架-动态UI-Card demo-Component

```
import React from 'react'
import DynamicComponent from '../../dynamicUI'
import Voucher from '../../templates/voucher'

export default class CardDemoComponent extends Voucher {
    componentDidMount() {
        this.props.initView() //调用action的initView函数，初始化视图
    }

    handleEvent(eventName, option){
        if(eventName === 'exit'){
            this.props.onDelTab(this.props.tab.get('url'))
        }else{
            this.props.onEvent(eventName, option)
        }
    }

    render() {
        return (
            <DynamicComponent
                {...this.props}   //将所有属性传递给下层component
                _path="cardDemo"  //指定元数据path
                onEvent={::this.handleEvent} //定义事件绑定函数
            />
        )
    }
}
```

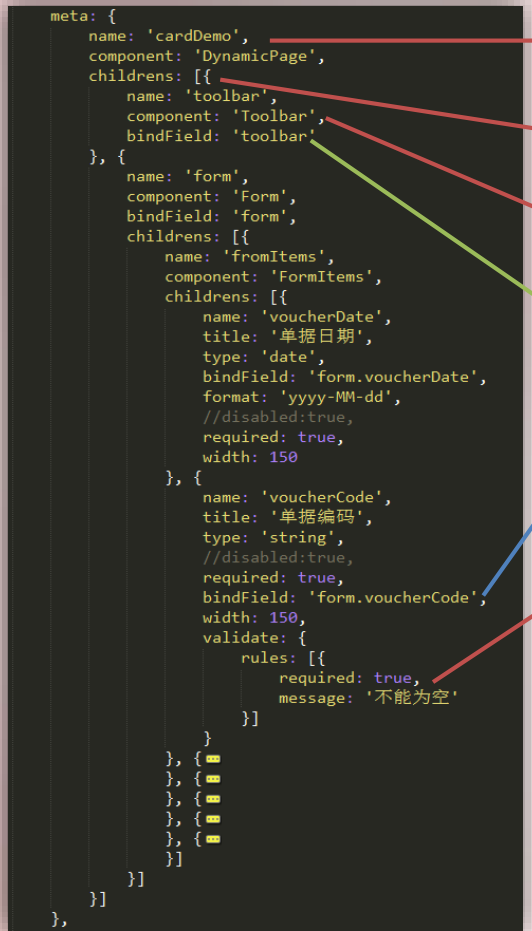
开发框架-动态UI-Card demo-Action

```
//引用单据action（单据action做了针对单据类录入app，封装了共用的函数）
import * as va from '../../templates/voucher/action'
//引用api
import * as api from './api'

//初始化view
export function initView(id) {
    //函数柯里化处理，函数返回值是函数，app middleware会对返回的函数注入app需要的函数（高阶函数） --这块不用太关注，照样写就行
    //injectFuns中包含的常用函数
    //getState:获取状态
    //reducer：执行reduce函数
    //get:ajax get函数
    //post：ajax post函数
    return injectFuns => {
        //调用reducer的initView函数
        //第一个参数包含了元数据，数据
        //第二个参数写死都是一样
        va.initView(api.cardDemo, exports)(injectFuns)
    }
}

/**
 * [事件处理]
 * @param  {[type]} eventName [description]
 * @param  {[type]} option    [description]
 * @return {[type]}           [description]
 */
export function onEvent(eventName, option){...
}

/**
 * [getter重写]
 * @param  {[type]} path      [description]
 * @param  {[type]} propertys [description]
 * @return {[type]}           [description]
 */
export function getter(path, propertys){...
}

//../../templates/voucher/action和当前的exports函数合并成新的action，重名函数当前覆盖原来的
Object.assign(exports, {...va,...exports})

```

开发框架-动态UI-Card demo-Reducer

```
1  //引用单据reducer（单据reducer做了针对单据类录入app，封装了共用函数）
2  import * as vr from '../../templates/voucher/reducer'
3
4  //../../templates/voucher/reducer和当前的exports函数合并成新的action，重名函数当前覆盖原来的
5  Object.assign(exports, {...vr,...exports})
```

开发框架-动态UI-meta、data



App名，随意定义

子控件数组

使用控件名

绑定Data属性

定义非空校验规则

```
export const addData = {
    id: undefined,
    voucherDate: undefined,
    voucherCode: undefined,
    number: 0,
    reference: undefined,
    bizType: undefined,
    memo: undefined,
    checkbox: false,
    status: 1
}

export const cardDemo = {
    meta: {
    },
    data: {
        toolbar: [{
            id: 1,
            code: 'prevPage',
            name: '上页'
        }, {
            id: 2,
            code: 'nextPage',
            name: '下页'
        }, {
            id:3,
            code:'add',
            name:'新增'
        },{
            id: 4,
            code: 'save',
            name: '保存'
        }, {
            id: 5,
            code: 'exit',
            name: '退出'
        }],
        form: addData
    }
}
```

开发框架-动态UI-复杂Component

```
meta: {
    name: 'cardDemo',
    component: 'DynamicPage',
    childrens: [{
        name: 'toolbar',
        component: 'Toolbar',
        bindField: 'toolbar'
    }, {
        name: 'form',
        component: 'Form',
        bindField: 'form',
        childrens: [{
            name: 'fromItems',
            component: 'FormItems',
            childrens: [{
            }, {
            }, {
                name: 'bizType',
                title: '业务类型',
                bindField: 'form.bizType',
                type: 'object',
                required: true,
                component: 'Select',
                valueMember: 'code',
                displayMember: 'name',
                dataSource: 'rest://bizTypes',
                dataSourceFetchMode: 1,
                width: 150
            }, {
            }, {
            }, {
                name: 'reference',
                title: '参照',
                type: 'object',
                bindField: 'form.reference',
                component: 'Reference',
                valueMember: 'code',
                displayMember: 'name',
                dropDataSource: 'rest://goodsReference',
                dropDataSourceFetchMode: 1,
                width: 150
            }, {
            }]
        }]
    }]
},
```

使用控件名

值对应成员属性

显示对应成员属性

数据源，值或者rest服务

数据源获取方式，仅一次或者每次都获取等

```
export const cards = [{
    id: 1,
    voucherDate: '2016-5-28',
    voucherCode: '001',
    number: 1,
    reference: { id: '1', code: '001', name: '牙膏' },
    bizType: { id: '2', code: '2', name: '销售退货' },
    memo: '1',
    checkbox: false,
    status: 0
}, {
```

```
export const bizTypes = [{
    id: '1',
    code: '1',
    name: '普通销售'
}, {
    id: '2',
    code: '2',
    name: '销售退货'
}]

export const goodsReference = {
    data: [{
        id: '1',
        code: '001',
        name: '牙膏'
    }, {
        id: '2',
        code: '002',
        name: '牙刷'
    }],
    columns: [{
        title: '存货编码',
        name: 'code'
    }, {
        title: '存货名称',
        name: 'name'
    }],
    height: 200,
    width: 300
}
```

开发框架-动态UI-初始化视图

```
6   //初始化view
7   export function initView(id) {
8       //函数柯里化处理，函数返回值是函数，app middleware会对返回的函数注入app需要的函数（高阶函数） --这块不用太关注，照样写就行
9       //injectFuns中包含的常用函数
10      //getState:获取状态
11      //reducer：执行reduce函数
12      //get:ajax get函数
13      //post：ajax post函数
14      return injectFuns => {
15          //调用reducer的initView函数
16          //第一个参数包含了元数据，数据
17          //第二个参数写死都是一样
18          va.initView(api.cardDemo, exports)(injectFuns)
19      }
20  }
```

开发框架-动态UI-加载数据

```
22  //事件处理函数
23  export function onEvent(eventName, option){
24      return (injectFuns) =>{
25          //事件名为save
26          if(eventName === "save"){
27              let a = va.getJson(injectFuns.getState(), 'form')
28              alert( JSON.stringify(a))
29              //va.validate(injectFuns,'cardDemo.form')
30          }else if(eventName === "prevPage"){
31              injectFuns.reduce('loadData', 'form', api.cards[0]) //加载数据
32
33          }else if(eventName === "nextPage"){
34              injectFuns.reduce('loadData', 'form', api.cards[1])
35          }else if(eventName === "add"){
36              injectFuns.reduce('loadData', 'form', api.addData)
37          }
38          else{
39              va.onEvent(eventName, option)(injectFuns)
40          }
41      }
42  }
```

‘loadData’：reducer的函数名，引用单据action已经默认实现

‘form’:field path,确定要更新哪个路径数据

最后一个参数：value

开发框架-动态UI-Component中获取值

```
const DynamicComponent = (props) =>{
    let {payload, _path, _component, componentFactory} = props
    if(!payload|| !payload.get('utils') )
        return (<div></div>)

    let  getter = payload.getIn(['utils','getter']),
        pValues = getter(_path,['type', 'component']),
        fieldType = pValues.get( 'type'),
        componentName = _component || pValues.get('component')

    let Component = getComponent(fieldType, componentName, componentFactory)

     return (
        <Component key={_path} {...props} _getter={props._getter || getter} />
    )
}
```

开发框架-动态UI-Action中获取值

通过控件Path

```
export function login(callback) {
    return injectFuns => {
        let { validate, getter, clearMessage } = da,
            { post, reduce } = injectFuns

        //校验某个路径数据
        if (!validate('login')(injectFuns)) return

        //action中获取值
        let user = getter('login.user', 'value')(injectFuns), //获取用户
            password = getter('login.password', 'value')(injectFuns) //获取密码
```

通过Field Path

```
export function getter(path, property) {
    return (injectFuns) => {
        let {getter, getterByField} = da

        if(property === 'dataSource'){ //判断属性
            let dataSource = getter(path, 'dataSource')(injectFuns)
            if(typeof dataSource === 'string' && /rest/i.test(dataSource)){
                return getterByField(['dataSource',dataSource])(injectFuns) //从state获取数据
            }
        }
```

开发框架-动态UI-Reducer中获取值

通过控件Path

```
export function addTab(state, title, url){
    let tabs = dr.getter(state, "portal.tabs", 'value') //通过控件path
    //let tabs = dr.getterByField(state,['tabs']) //通过field path
```

通过Field Path

开发框架-动态UI-Reducer中设置值

```
state = dr.setter(state, "portal.tabs", 'value', tabs) //通过控件path
//state = dr.setter(state, "tabs", 'value', tabs) //通过field path
```

开发框架-动态UI-明细行操作

```
63  export function onEvent(eventName, option) {
64      return (injectFuns) => {
65          let { getter, delRow, addRow, insertRow, delAllRow, delSelectedRow } = da, { reduce } = injectFuns
66
67          if (eventName === "onDelRow") {
68              delRow(option.path)(injectFuns) //删行，path:voucherDemo.form.tabs.details,0
69          } else if (eventName === 'onAddRow') {
70              addRow(option.path, getter(option.path, 'emptyRow')(injectFuns))(injectFuns) //增行
71          } else if (eventName === 'onAddTenRow') {
72              let emptyRow = getter(option.path, 'emptyRow')(injectFuns)
73              for (let i = 0; i < 10; i++)
74                  addRow(option.path, emptyRow)(injectFuns) //增加行，path:voucherDemo.form.tabs.details
75          } else if (eventName === 'onInsertRow') {
76              insertRow(option.path, da.getter(option.path, 'emptyRow')(injectFuns))(injectFuns) //插入行，path:voucherDemo.form.tabs.details,1
77          } else if (eventName === 'onDelAllRow') {
78
79              delAllRow(option.path)(injectFuns) //删除所有行，path:voucherDemo.form.tabs.details
80          } else if (eventName === 'onDelSelectedRow') {
81
82              delSelectedRow(option.path)(injectFuns) //删除选中行，path:voucherDemo.form.tabs.details
83          } else if (eventName === 'save') {
84              alert(eventName)
85                  //da.validate(injectFuns,'sa03.form')
86          } else {
87              da.onEvent(eventName, option)(injectFuns)
88          }
89      }
90  }
```

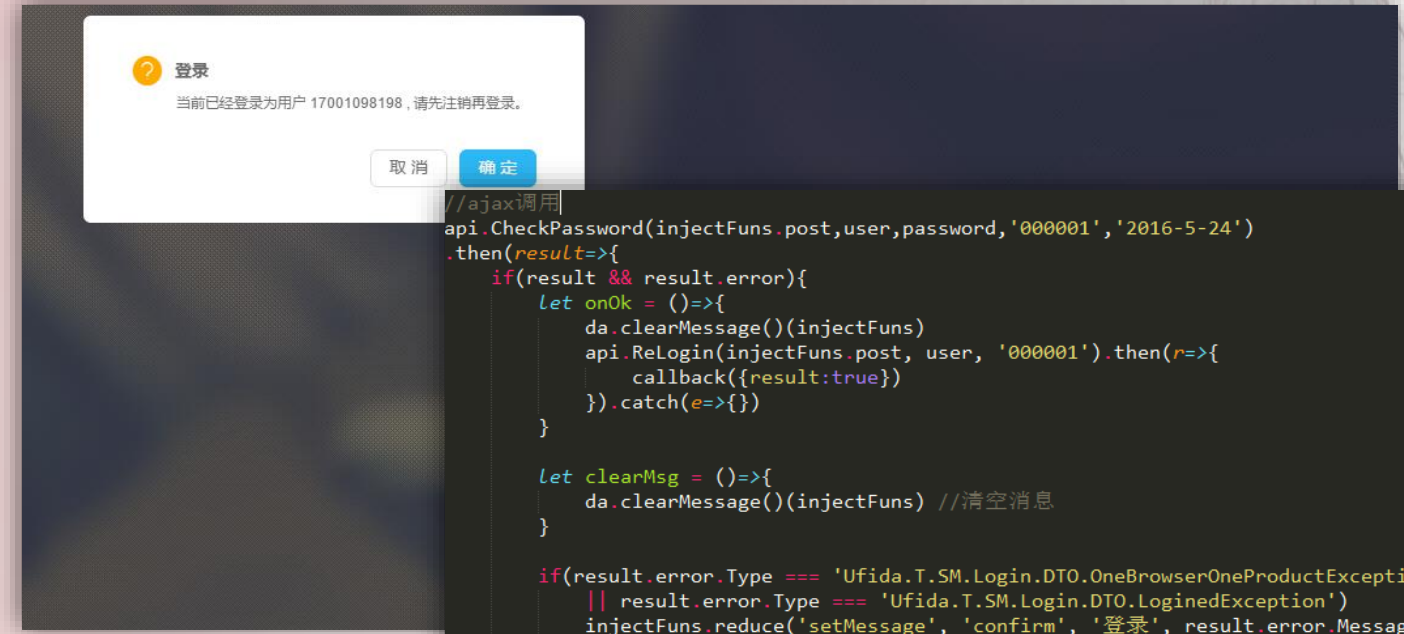
开发框架-动态UI-获取明细选中行

```
12  export function onEvent(eventName, option){
13      return (injectFuns) =>{
14          if(eventName === "delete"){
15              let selectedRows = la.getSelectedRows('listDemo.form.tabs.details.select')(injectFuns) //获取选中行
16              alert( JSON.stringify(selectedRows.map(r=>r.get('id')).toJS()))
17          }
18          else{
19              la.onEvent(eventName, option)(injectFuns)
20          }
21      }
22  }
```

开发框架-动态UI-懒加载（例如参照下拉）

```
11  export function getter(path, property) {
12      return (injectFuns) => {
13          let { getter, getterByField } = da
14
15          if (property === 'dataSource') { //判断属性
16              let dataSource = getter(path, 'dataSource')(injectFuns)
17              if (typeof dataSource === 'string' && /rest/i.test(dataSource)) {
18                  return getterByField(['dataSource', dataSource])(injectFuns) //从state获取数据
19              }
20          }
21
22          if (property === 'dropDataSource') {...
27          }
28
29          return getter(path, property)(injectFuns)
30      }
31  }
32
33
34  export function lazyLoad(path, property, options) {
35      return (injectFuns) => {
36          let { getter } = da, { reduce } = injectFuns
37          if (property === 'dataSource') { //判断属性
38              let dataSource = getter(path, 'dataSource')(injectFuns)
39              if (typeof dataSource === 'string' && /rest/i.test(dataSource)) {
40                  reduce('setterByField', ['dataSource', dataSource], Immutable.fromJS(restCall(dataSource))) //更新state
41              }
42          }
43
44          if (property === 'dropDataSource') {...
49          }
50      }
51  }
```

开发框架-动态UI-设置app消息




```
//ajax调用
api.CheckPassword(injectFuns.post,user,password,'000001','2016-5-24')
.then(result=>{
    if(result && result.error){
        let onOk = ()=>{
            da.clearMessage()(injectFuns)
            api.ReLogin(injectFuns.post, user, '000001').then(r=>{
                callback({result:true})
            }).catch(e=>{})
        }

        let clearMsg = ()=>{
            da.clearMessage()(injectFuns) //清空消息
        }

        if(result.error.Type === 'Ufida.T.SM.Login.DTO.OneBrowserOneProductException'
            || result.error.Type === 'Ufida.T.SM.Login.DTO.LoginedException')
            injectFuns.reduce('setMessage', 'confirm', '登录', result.error.Message, onOk, clearMsg) //设置确认消息
        else
            injectFuns.reduce('setMessage', 'error', '登录', result.error.Message, clearMsg) //设置异常消息
    }
    else{
        callback({result:true})
    }

})
.catch(err=>{
})
```

开发框架-动态UI-重写getter

```
/**
 * [getter重写]
 * @param  {[type]} path      [description]
 * @param  {[type]} propertys [description]
 * @return {[type]}           [description]
 */
export function getter(path, propertys){
    return (injectFuns)=>{
        //匹配备注,value属性获取，给value后面加"-aaa"
        if(va.match(path, propertys, 'cardDemo.form.fromItems.memo1', 'value') ){
            let result =  va.getter(path, propertys)(injectFuns) ,
                value = ''

            if(typeof result === 'string') {
                value = result
                value = value ? value : ''
                return `${value}-aaa`
            }
            else{
                value = result.get('value')
                value = value ? value : ''
                return result.set('value',  `${value}-aaa`)
            }
        }
        else{
            return va.getter(path, propertys)(injectFuns)
        }
    }
}
```

开发框架-动态UI-值变化事件

```
/**
 * [控件值变化事件]
 * @param  {[type]} state    [旧状态]
 * @param  {[type]} path     [路径，例如voucherDemo.form.tabs.details.price,2]
 * @param  {[type]} oldValue [旧值]
 * @param  {[type]} newValue [新值]
 * @return {[type]}          [新状态]
 */
export function onFieldChange(state, path, oldValue, newValue) {
    let { existsParamsInPath, match, onFieldChange } = vr

    state = onFieldChange(state, path, oldValue, newValue)

    //路径当中带行index
    if (existsParamsInPath(path)) {
        //单价或者数量发生变化
        if (match(path, 'value', ['voucherDemo.form.tabs.details.price', 'voucherDemo.form.tabs.details.number'], 'value')) {
            state = priceOrNumberChange(state, path, oldValue, newValue)
        }
    }
    return state
}

/**...
function priceOrNumberChange(state, path, oldValue, newValue) {
    let { parsePath, getter, setter } = vr,
        parsedPath = parsePath(path),
        pricePath = 'voucherDemo.form.tabs.details.price',
        numberPath = 'voucherDemo.form.tabs.details.number',
        amountPath = 'voucherDemo.form.tabs.details.amount',
        detailsPath = 'voucherDemo.form.tabs.details',
        index = parsedPath.vars[0],
        row = getter(state, `${detailsPath},${index}`, 'value'), //获取行数据
        price = row.get('price'), //获取单价
        number = row.get('number') //获取数量

    //联动设置金额=单价*数量
    return setter(state, `${amountPath},${index}`, 'value', price * number)
}
```

开发框架-动态UI-校验

```
/**
 * [登录处理函数]
 * @param  {Function} callback [成功回掉函数]
 * @return {[type]}            [description]
 */
export function login(callback) {
    return injectFuns => {
        let { validate, getter, clearMessage } = da,
            { post, reduce } = injectFuns

        //校验某个路径数据
        if (!validate('login')(injectFuns)) return
```

```
let meta = {
    name: 'login',
    childrens: [{
        name: 'user',
        title: '用户名',
        type: 'string',
        showLabel:'false',
        bindField: 'user',
        validate:{
            rules:[{
                required:true,
                message:'不能为空'
            }]
        }
    }, {
        name: 'password',
        title: '密码',
        type: 'string',
        component: 'Password',
        showLabel:'false',
        bindField: 'password'
    }]
}

let data = {
    user: '',
    password: ''
}
```

会根据当前路径，逐级往下校验子元素

上面的代码会校验用户名不能为空

开发框架-动态UI-代码设置，获取校验信息

```
/**
 * [重写字段变化事件]
 * @param  {[type]} path     [路径]
 * @param  {[type]} oldValue [旧值]
 * @param  {[type]} newValue [新值]
 * @return {[type]}          [description]
 */
export function onFieldChange(path, oldValue, newValue) {
    return injectFuns => {
        /*
        if(path === 'login.user'){
            if(newValue !== '1' && typeof newValue !== undefined && newValue !== null && newValue !== ''){
                injectFuns.reduce('setValidate',  path, '用户名不存在') //设置校验信息
            }
            else
                injectFuns.reduce('clearValidate',  path) //清空校验信息
        }*/
        da.onFieldChange(path, oldValue, newValue)(injectFuns)
    }
}
```

```
    renderError(getter, path){
        let validateResult = getter(path, 'validate.result')

        if(validateResult && validateResult.size > 0){
            let message = validateResult.toArray().join("")
            return(
                <Tooltip title={message}><span className='has-error has-feedback' ></span></Tooltip>
            )

        }
        else
        {
            return(<div></div>)
        }
    }
```

开发框架-动态UI-设置焦点

```
39  export function onFieldFocus(state, path) {
40      return focus(state, path) //通过路径设置焦点
41  }
42
43  export function onEvent(state, eventName, option) {
44      if(eventName === 'onGridSelectAll'){
45          //选中所有行
46          state = util.selectAllRows(state, option.path, option.selected)
47      }
48
49      return focus(state, '') //取消焦点
50  }
```

```
65  export function focus(state, path){
66      return util.setter(state, 'meta', 'focusField', path)
67  }
```

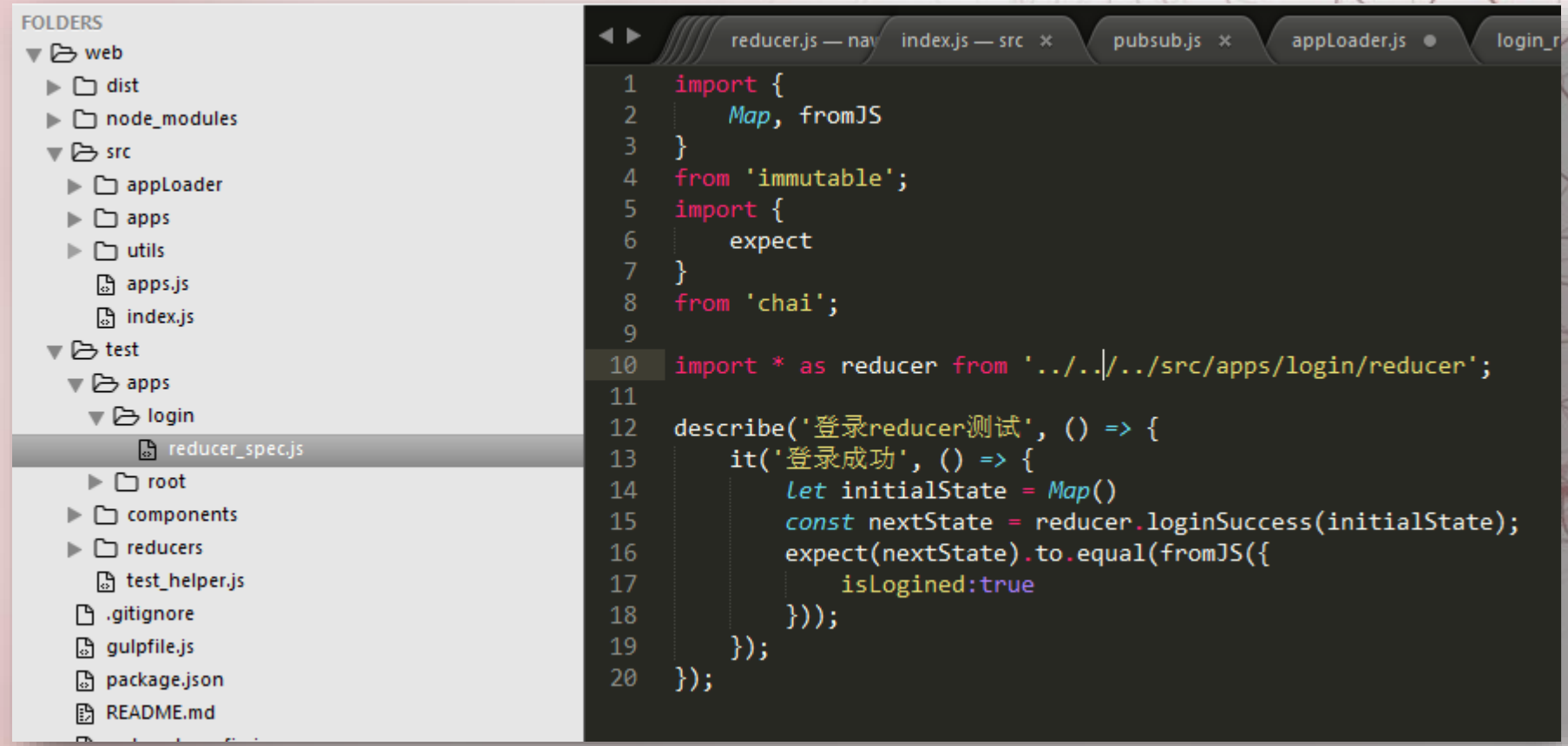
```
35  calculateState(props){
36      let { _path, _getter, disabled,  rowIndex, style } = props,
37          path = `${_path},${rowIndex}`,
38          pValus = _getter(path, ['', 'isFocus', 'value', 'disabled']),  //获取元数据，是否焦点，值，是否启用
39          meta = pValus.get(''),
40          isFocus = pValus.get('isFocus'),
41          value = pValus.get('value')
42
43      disabled = disabled || pValus.get('disabled') || false
44
45      let data = this.set(null,{path, meta, value, isFocus, disabled, style })
46      return {data}
47  }
```

开发框架-动态UI-Ajax

```
let { validate, getter, clearMessage } = da,
    { post, reduce } = injectFuns

//校验某个路径数据
if (!validate('login')(injectFuns)) return

//action中获取值
let user = getter('login.user', 'value')(injectFuns), //获取用户
    password = getter('login.password', 'value')(injectFuns) //获取密码

//ajax调用,校验用户密码
api.CheckPassword(post, user, password, '000001', '2016-5-24')
    .then(result => {...

    })
    .catch(err => {})
```

```
import md5 from 'md5'

const url = m => "/ajaxpro/Ufida.T.SM.Login.UIP.LoginManager,Ufida.T.SM.Login.UIP.ashx?method=" + m;

export function CheckPassword(post,user,pwd,accNum,loginDate){
    var arrdate = loginDate.split('-');
    var data = {
      "AccountNum":accNum,
      "UserName":user,
      "Password":md5(pwd),
      "rdpYear":arrdate[0],
      "rdpMonth":arrdate[1],
      "rdpDate":arrdate[2],
      "webServiceProcessID":""
    }
    return post(url("CheckPassword"),data);
}
```

开发框架-单元测试


FOLDERS
web
dist
node_modules
src
appLoader
apps
utils
apps.js
index.js
test
apps
login
reducer_spec.js
root
components
reducers
test_helper.js
.gitignore
gulpfile.js
package.json
README.md
reducer.js — nav
index.js — src
pubsub.js
appLoader.js
login_r
import {
Map, fromJS
}
from 'immutable';
import {
expect
}
from 'chai';
import * as reducer from '../../../src/apps/login/reducer';
describe('登录reducer测试', () => {
it('登录成功', () => {
let initialState = Map()
const nextState = reducer.loginSuccess(initialState);
expect(nextState).to.equal(fromJS({
isLogined:true
}));
});
});

运行态


<Provider store={dispatch: fn(), subscribe: subscribe(), getState: getState(), ···}>
<Connect(AppLoader) path="apps/root">
<AppLoader path="apps/root" payload=Map{···} loadApp=fn()>
<Connect(RootComponent) path="apps/root" payload=Map{···} loadApp=fn()>
<RootComponent path="apps/root" payload=Map{···} loadApp=fn()···>
<Connect(AppLoader) path="apps/login" version="pro" onLoginSuccess=bound handleLoginSuccess()>
<AppLoader path="apps/login" version="pro" onLoginSuccess=bound handleLoginSuccess()···>
<Connect(LoginComponent) path="apps/login" version="pro" onLoginSuccess=bound handleLoginSuccess()···>
<LoginComponent path="apps/login" version="pro" onLoginSuccess=bound handleLoginSuccess()···>

<Header version="pro">···</Header>
<main>

<LeftSlice>···</LeftSlice>
<LoginForm path="apps/login" version="pro" onLoginSuccess=bound handleLoginSuccess()···>···</LoginForm>

</main>
<Footer>···</Footer>

</LoginComponent>
</Connect(LoginComponent)>
</AppLoader>
</Connect(AppLoader)>
</RootComponent>
</Connect(RootComponent)>
</AppLoader>
</Connect(AppLoader)>
</Provider>

<Provider store={dispatch: fn(), subscribe: subscribe(), getState: getState(), ···}>
<Connect(AppLoader) path="apps/root">
<AppLoader path="apps/root" payload=Map{···} loadApp=fn()>
<Connect(RootComponent) path="apps/root" payload=Map{···} loadApp=fn()>
<RootComponent path="apps/root" payload=Map{···} loadApp=fn()···>
<Connect(AppLoader) path="apps/portal">
<AppLoader path="apps/portal" payload=Map{···} loadApp=fn()>
<Connect(RootComponent) path="apps/portal" payload=Map{···} loadApp=fn()>
<RootComponent path="apps/portal" payload=Map{···} loadApp=fn()···>

<Connect(AppLoader) path="apps/portal/navbar">
<AppLoader path="apps/portal/navbar" payload=Map{···} loadApp=fn()>
<Connect(NavbarComponent) path="apps/portal/navbar" payload=Map{···} loadApp=fn()>
<NavbarComponent path="apps/portal/navbar" payload=Map{···} loadApp=fn()···>···</NavbarComponent
</Connect(NavbarComponent)>
</AppLoader>
</Connect(AppLoader)>

<Connect(AppLoader) path="apps/portal/sidebar" onMenuClick=bound handleMenuClick()···</Connect(A