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1. 同构

- 同构的项目支持客户端渲染和服务端渲染
- 客户端渲染缺点
 - 首屏速度加载慢
 - 不支持SEO和搜索引擎优化
 - 首页需要通过请求初始化数据



2.Next.js

- [Next.js英文文档 \(https://nextjs.org/docs\)](https://nextjs.org/docs) [Next.js中文文档 \(https://nextjs.frontendx.cn/docs/\)](https://nextjs.frontendx.cn/docs/) 是一个轻量级的 React 服务端渲染应用框架
- 默认支持服务端渲染
- 自动根据页面进行代码分割
- 基于页面的客户端路由方案
- 基于 Webpack 的开发环境，支持热模块替换
- 可以跟 Koa 或其它 Node.js 服务器进行集成
- 支持 Babel 和 Webpack 的配置项定制
- 静态文件服务 public

3.初始化

3.1 创建项目

```
mkdir zhufengnextjs
cd zhufengnextjs
npm init -y
yarn add --dev typescript react @types/react react-dom @types/node next axios
mkdir pages
```

3.2 创建脚本

package.json

```
{
  "scripts": {
    "dev": "next dev",
    "build": "next build",
    "start": "next start"
  }
}
```

<https://github.com/zeit/next.js/blob/canary/.gitignore> (<https://github.com/zeit/next.js/blob/canary/.gitignore>)

3.3 访问

- 以 `./pages` 作为服务端的渲染和索引的根目录
- `public` 静态文件服务映射
- `pages` 组件代码自动分割

index.tsx

```
export default function () {
  return (
    <div>Homediv</div>
  )
}
```

curl http:

4. 跑通路由

4.1 知识点

- 绑定 `styled-jsx` 来生成独立作用域的 CSS
- 如何支持 `css`
- 如何支持 `antd` 并实现按需加载
- 路由的使用和两种跳转路径的方法

4.2 安装依赖包

```
yarn add @zeit/next-css antd babel-plugin-import
```

4.3 .babelrc

.babelrc

```
{
  "presets": [
    "next/babel"
  ],
  "plugins": [
    [
      "import",
      {
        "libraryName": "antd"
      }
    ]
  ]
}
```

4.4 next.config.js

- [next-css](https://github.com/zeit/next-plugins/tree/master/packages/next-css) (<https://github.com/zeit/next-plugins/tree/master/packages/next-css>) 可以让你在项目中引用 CSS

next.config.js

```
const withCSS = require('@zeit/next-css');

if (typeof require !== 'undefined') {
  require.extensions['.css'] = file => { }
}

module.exports = withCSS({})
```

4.5 pages_app.tsx

- App 组件来初始化页面, 你可以重写它来控制页面初始化
 - 当页面变化时保持页面布局
 - 当路由变化时保持页面状态
 - 注入额外数据到页面里

pages_app.tsx

```
import App, { Container } from 'next/app';
import Link from 'next/link';
import { Layout, Menu, Icon } from 'antd';
import 'antd/dist/antd.css';
import { withRouter } from 'next/router';
const { Header, Footer } = Layout;
class LayoutApp extends App<any> {
  render() {
    let { Component } = this.props as any;
    let pathname = this.props.router.pathname;
    pathname = '/' + (pathname.split('/')[1]);
    return (
      <Container>
        <style jsx>
          {`a{display:inline-block!important;}`}
        </style>
        <Layout>
          <Header className="header">
            
            <Menu theme="dark" mode="horizontal" style={{ lineHeight: '64px', display: 'inline-block' }}>
              selectedKeys={[pathname]}
              defaultSelectedKeys={[pathname]}>
                <Menu.Item key="/">
                  <Icon type="home" /><Link href="/"><a>首页</a></Link>
                </Menu.Item>
                <Menu.Item key="/user">
                  <Icon type="user" /> <Link href="/user" ><a>用户管理</a></Link>
                </Menu.Item>
                <Menu.Item key="/profile">
                  <Icon type="profile" /><Link href="/profile"><a>个人中心</a></Link>
                </Menu.Item>
                <Menu.Item key="/login">
                  <Icon type="login" /><Link href="/login"><a>登录</a></Link>
                </Menu.Item>
              </Menu>
            </Header>
            <Component />
            <Footer style={{ textAlign: 'center' }} >©copyright 珠峰架构</Footer>
          </Layout>
        </Container>
      )
    )
  }
}
export default withRouter(LayoutApp);
```

4.6 pages/index.tsx

pages/index.tsx

```
import router from 'next/router';
import { Button, Layout } from 'antd';
const { Content } = Layout;
export default function () {
  return (
    <Content style={{ margin: '20px auto' }}>
      <div>Homediv</div>
      <Button onClick={() => router.push('/user')}>userButton</Button>
    </Content>
  )
}
```

4.7 pages/user.tsx

pages/user.tsx

```
import router from 'next/router';
import { Button, Layout } from 'antd';
const { Content } = Layout;
export default function () {
  return (
    <Content style={{ margin: '20px auto' }}>
      <div>Userdiv</div>
      <Button onClick={() => router.push('/profile')}>profileButton</Button>
    </Content>
  )
}
```

4.8 pages/profile.tsx

pages/profile.tsx

```
import router from 'next/router';
import { Button, Layout } from 'antd';
const { Content } = Layout;
export default function () {
  return (
    <Content style={{ margin: '20px auto' }}>
      <div>Profilediv</div>
      <Button onClick={() => router.back()}>返回Button</Button>
    </Content>
  )
}
```

5. 二级路由

5.1 知识点

- 支持二级路由
- 实现二级布局组件
- 路由跳转传递参数
- 页面组件通过 getInitialProps 获取数据

5.2 执行顺序

5.2.1 后台顺序

```
1. LayoutApp.getInitialProps {
  AppTree: [Function: AppTree],
  Component: [Function: UseList] { getInitialProps: [AsyncFunction] },
  router: ServerRouter {
    route: '/user/list',
    pathname: '/user/list',
    query: [Object: null prototype] {},
    asPath: '/user/list'
  },
  ctx: {
    err: undefined,
    req: 'req',
    res: 'res',
    pathname: '/user/list',
    query: [Object: null prototype] {},
    asPath: '/user/list',
    AppTree: [Function: AppTree]
  }
}

2. UseList.getInitialProps ctx {
  err: undefined,
  req: 'req',
  res: 'res',
  pathname: '/user/list',
  query: [Object: null prototype] {},
  asPath: '/user/list',
  AppTree: [Function: AppTree]
}

3. LayoutApp.render {
  router: ServerRouter {
    route: '/user/list',
    pathname: '/user/list',
    query: [Object: null prototype] {},
    asPath: '/user/list'
  },
  Component: [Function: UseList] { getInitialProps: [AsyncFunction] },
  pageProps: { list: [ [Object], [Object] ] }
}

4. UseList.render {
  list: [
    { _id: 1, username: 'zhangsan', password: '1' },
    { _id: 2, username: 'lisi', password: '2' }
  ],
  className: 'jsx-771544297 '
}
```

5.2.2 前台顺序

```
1. LayoutApp.getInitialProps ▶ {AppTree: f, Component: f, router: Router, ctx: {...}}
2. UseList.getInitialProps ctx ▶ {pathname: "/user/List", query: {...}, asPath: "/user/List", AppTree: f}
3. LayoutApp.render ▶ {router: Router, pageProps: {...}, Component: f, err: undefined}
4. UseList.render ▶ {list: Array(2), className: "jsx-771544297 "}
```

5.3 pages_app.tsx

pages_app.tsx

```

import App from 'next/app';
import Link from 'next/link';
import { Layout, Menu, Icon } from 'antd';
import 'antd/dist/antd.css';
import { withRouter } from 'next/router';
const { Header, Footer } = Layout;
class LayoutApp extends App {
+   static async getInitialProps(params) {
+     if (params.ctx.req) params.ctx.req = 'req';
+     if (params.ctx.res) params.ctx.res = 'res';
+     console.log('1.LayoutApp.getInitialProps', params);
+     let { Component, ctx } = params;
+     let pageProps = {};
+     if (Component.getInitialProps)
+       pageProps = await Component.getInitialProps(ctx);
+     return { pageProps };
+   }
+   render() {
+     console.log('3.LayoutApp.render', this.props);
+     let { Component } = this.props as any;
+     let pathname = this.props.router.pathname;
+     pathname = '/' + (pathname.split('/')[1]);
+     return (
+       <>
+
+       <span class="h1js-addition">+               {`a{display:inline-block!important;}`}</span>
+
+       +
+       +
+
+       selectedKeys={ [pathname] }
+       defaultSelectedKeys={ [pathname] }>
+
+       首页
+
+       用户管理
+
+       个人中心
+
+       +
+
+       @copyright 珠峰架构
+
+       </>
+     )
+   }
}
export default withRouter(LayoutApp);

```

5.4 user/index.tsx

pages/user/index.tsx

```

import { withRouter } from 'next/router';
import Link from 'next/link';
import { Layout, Menu, Icon } from 'antd';
const { Sider, Content } = Layout;
function UserLayout(props) {
  return (
    <>
    <style jsx>
      {`a{display:inline-block!important;}`}
    </style>
    <Layout>
      <Sider>
        <Menu
          theme="dark"
          mode="inline"
          defaultSelectedKeys={ [props.router.pathname] }
        >
          <Menu.Item key="/user/list">
            <Icon type="user" /><Link href="/user/list"><a>用户列表</a></Link>
          </Menu.Item>
          <Menu.Item key="/user/add">
            <Icon type="plus" /><Link href="/user/add"><a>添加用户</a></Link>
          </Menu.Item>
        </Menu>
      </Sider>
      <Content style={{ padding: 8 }}>
        {props.children}
      </Content>
    </Layout>
    </>
  )
}
export default withRouter(UserLayout);

```

5.5 user/list.tsx

pages/user/list.tsx

```
import UserLayout from './index';
import { List } from 'antd';
import Link from 'next/link';
function UseList(props) {
  console.log('4.UseList.render', props);
  return (
    <UserLayout>
      <List>
        header=<div>用户列表div</div>
        footer=<div>共计多少{props.list.length}个用户div</div>
        bordered
        dataSource={props.list}
        renderItem={item: any} => (
          <List.Item key={item._id}>
            <Link as={`/user/detail/${item._id}`} href={{ pathname: `/user/detail`, query: { id: item._id } }}><a>{item.username}</a></Link>
            <List.Item>
          </List.Item>
        )
      </List>
    </UserLayout>
  )
}

UseList.getInitialProps = async (ctx) => {
  if (ctx.req) { ctx.req = 'req'; }
  if (ctx.res) { ctx.res = 'res'; }
  console.log('2.UseList.getInitialProps ctx', ctx);
  let list = [{ _id: 1, username: 'zhangsan', password: '1' }, { _id: 2, username: 'lisi', password: '2' }];
  return { list };
}

export default UseList;
```

5.6 useradd.tsx

pages/useradd.tsx

```
import UserLayout from './index';
import router from 'next/router';
import { Form, Input, Button, Icon } from 'antd';
function UserAdd(props) {
  const { getFieldDecorator } = props.form;
  return (
    <UserLayout>
      <Form className="login-form" style={{ maxWidth: '300px' }}>
        <Form.Item>
          {getFieldDecorator('username', {
            rules: [{ required: true, message: 'Please input your username!' }],
          }) (
            <Input
              prefix={<Icon type="user" style={{ color: 'rgba(0,0,0,.25)' }} />}
              placeholder="Username"
            />,
          )}
        </Form.Item>
        <Form.Item>
          {getFieldDecorator('password', {
            rules: [{ required: true, message: 'Please input your Password!' }],
          }) (
            <Input
              prefix={<Icon type="lock" style={{ color: 'rgba(0,0,0,.25)' }} />}
              type="password"
              placeholder="Password"
            />,
          )}
        </Form.Item>
        <Form.Item>
          <Button type="primary" htmlType="submit" className="login-form-button">
            添加用户
          </Button>
        </Form.Item>
      </Form>
    </UserLayout>
  )
}

export default Form.create({ name: 'UserAdd' })(UserAdd);
```

6.集成koa

- Next自身的服务器只能处理SSR请求
- 无法处理API接口的请求

6.1 知识点

- 如何集成 koa
- 在 koa使用 next作中间件

6.2 安装依赖

```
yarn add koa koa-router
```

6.3 clientindex.js

clientindex.js

```

let Koa = require('koa');
let Router = require('koa-router');
const next = require('next');
const dev = process.env.NODE_ENV !== 'production';
const app = next({ dev; true });
const handler = app.getRequestHandler();
app.prepare().then(() => {
  const server = new Koa();
  let router = new Router();
  server.use(router.routes());
  server.use(async (ctx, next) => {
    await handler(ctx.req, ctx.res);
    ctx.response = false;
  });
  server.listen(3000, () => console.log('server started at port 3000'));
});

```

6.4 package.json

package.json

```

"scripts": {
+  "client": "nodemon client",
  "build": "next build",
  "start": "next start"
},

```

7.调用接口

- 添加用户
- 查看用户列表
- 当服务渲染时, getInitialProps 将会把数据序列化, 就像 JSON.stringify
- 所以确保 getInitialProps 返回的是一个普通 JS 对象, 而不是 Date, Map 或 Set 类型
- 当页面初始化加载时, getInitialProps 只会加载在服务端。只有当路由跳转 (Link 组件跳转或 API 方法跳转) 时, 客户端才会执行 getInitialProps
- getInitialProps 将不能使用在子组件中。只能使用在 pages 页面中
- [getInitialProps 入参对象 \(https://nextjs.frontendx.cn/docs/zh/%E8%B7%AF%E7%94%B1\)](https://nextjs.frontendx.cn/docs/zh/%E8%B7%AF%E7%94%B1)
- 如果需要注入 pathname, query 或 asPath 到你组件中, 你可以使用 withRouter

7.1 utils/axios.tsx

utils/axios.tsx

```

import axios from 'axios';
axios.defaults.withCredentials = true
const instance = axios.create({
  baseURL: 'http://localhost:4000'
})
export default instance;

```

7.2 pages/user/add.tsx

pages/user/add.tsx

```

import UserLayout from '../index';
import router from 'next/router';
+import { Form, Input, Button, Icon, message } from 'antd';
+import axios from '../utils/axios';
function UserAdd(props) {
+  async function handleSubmit(event) {
+    event.preventDefault();
+    let values = props.form.getFieldsValue();
+    let response = await axios.post('/api/register', values);
+    if (response.data.code === 0) {
+      router.push('/user/list');
+    } else {
+      message.error('添加用户失败');
+    }
+  }
+  const { getFieldDecorator } = props.form;
+  return (
+
+    {props.currentUser && 创建者: {props.currentUser.username}}
+
+    {getFieldDecorator('username', {
+      rules: [{ required: true, message: 'Please input your username!' }],
+    }) (
+      <input type="text" placeholder="Username" />,
+    )}
+
+    {getFieldDecorator('password', {
+      rules: [{ required: true, message: 'Please input your Password!' }],
+    }) (
+      <input type="password" placeholder="Password" />,
+    )}
+
+    添加用户
+
+  )
}
export default Form.create({ name: 'UserAdd' })(UserAdd);

```

7.3 user/list.tsx

pages/user/list.tsx

```
import UserLayout from '../index';
import { List } from 'antd';
import Link from 'next/link';
+import axios from '../../utils/axios';
function UseList(props) {
  console.log('4.UseList.render', props);
  return (
    <div>
      用户列表
      <Table
        footer={共计多少{props.list.length}个用户}
        bordered
        dataSource={props.list}
        renderItem={item: any => (
          <div>
            {item.username}
          </div>
        )}
      />
    </div>
  )
}

UseList.getInitialProps = async (ctx) => {
  if (ctx.req) { ctx.req = 'req'; }
  if (ctx.res) { ctx.res = 'res'; }
  console.log('2.UseList.getInitialProps ctx', ctx);
+  let response = await axios({ url: '/api/users', method: 'GET' });
+  return { list: response.data.data };
}

export default UseList;
```

8.用户详情

8.1 知识点

- 路由跳转传参数
- 模块和组件懒加载
- 自定义服务端路由

8.2 user/detail.tsx

pages/user/detail.tsx

```
import React, { useState } from 'react';
import UserLayout from '../';
import { withRouter } from 'next/router';
import { Button } from 'antd';
import axios from '../../utils/axios';
import dynamic from 'next/dynamic';
const UserInfo = dynamic(import('../../components/UserInfo'))

function UserDetail(props) {
  let [show, setShow] = useState(false);
  return (
    <UserLayout>
      <p>ID: {props.router.query.id}</p>
      <Button onClick={() => setShow(!show)}>显示/隐藏Button</Button>
      {
        show && <UserInfo user={props.user} />
      }
    </UserLayout>
  )
}

UserDetail.getInitialProps = async (ctx) => {
  let response = await axios({ url: `/api/users/${ctx.query.id}`, method: 'GET' });
  return { user: response.data.data };
}

export default withRouter(UserDetail);
```

8.2 components/UserInfo.tsx

components/UserInfo.tsx

```
import { useState } from 'react';
import { Button } from 'antd';
function UserInfo(props) {
  let [created, setCreated] = useState(props.user.created);
  async function changeFormat() {
    let moment = await import('moment');
    setCreated(moment.default(props.user.created).fromNow());
  }
  return (
    <div>
      <p>用户名: {props.user.username}</p>
      <p>密码: {props.user.password}</p>
      <p>创建时间: {created}<Button onClick={changeFormat}>切换为相对时间Button</Button></p>
    </div>
  )
}

export default UserInfo;
```

8.3 client/index.js

client/index.js


```

let Koa = require('koa');
let Router = require('koa-router');
const next = require('next');
const dev = process.env.NODE_ENV !== 'production';
const app = next({ dev: true });
const handler = app.getRequestHandler();
app.prepare().then(() => {
  const server = new Koa();
  let router = new Router();
  + router.get('/user/detail/:id', async (ctx, next) => {
  +   const id = ctx.params.id;
  +   await handler(ctx.req, ctx.res, {
  +     pathname: '/user/detail',
  +     query: { id }
  +   });
  +   ctx.response = false;
  + });
  server.use(router.routes());
  server.use(async (ctx, next) => {
    await handler(ctx.req, ctx.res);
    ctx.response = false;
  });
  server.listen(3000, () => console.log('server started at port 3000'));
});

```

9. 登录

9.1 pages/login.tsx

```

import router from 'next/router';
import { Form, Input, Button, Icon, message } from 'antd';
import axios from '../utils/axios';
function Login(props) {
  const { getFieldDecorator } = props.form;
  async function handleSubmit(event) {
    event.preventDefault();
    let values = props.form.getFieldsValue();
    let response = await axios.post('/api/login', values);
    if (response.data.code === 0) {
      router.push('/');
    } else {
      message.error('登录失败');
    }
  }
  return (
    <Form onSubmit={handleSubmit} className="login-form" style={{ maxWidth: '300px', margin: '20px auto' }}>
      <Form.Item>
        {getFieldDecorator('username', {
          rules: [{ required: true, message: 'Please input your username!' }],
        }) (
          <Input
            prefix={<Icon type="user" style={{ color: 'rgba(0,0,0,.25)' }} />}
            placeholder="Username"
          />,
        )}
      </Form.Item>
      <Form.Item>
        {getFieldDecorator('password', {
          rules: [{ required: true, message: 'Please input your Password!' }],
        }) (
          <Input
            prefix={<Icon type="lock" style={{ color: 'rgba(0,0,0,.25)' }} />}
            type="password"
            placeholder="Password"
          />,
        )}
      </Form.Item>
      <Form.Item>
        <Button type="primary" htmlType="submit" className="login-form-button">
          登录
        </Button>
      </Form.Item>
    </Form>
  )
}
const WrappedLogin = Form.create({ name: 'Login' })(Login);
export default WrappedLogin;

```

10. 集成redux

10.1 安装依赖

```
yarn add redux react-redux
```

10.2 pages_app.tsx

```
pages_app.tsx
```

10.3 user\add.tsx

```

import UserLayout from './index';
import router from 'next/router';
import { Form, Input, Button, Icon, message } from 'antd';
import axios from '../utils/axios';
+import { connect } from 'react-redux';
function UserAdd(props) {
  async function handleSubmit(event) {
    event.preventDefault();
    let values = props.form.getFieldsValue();
    let response = await axios.post('/api/register', values);
    if (response.data.code)
      router.push('/user/list');
    } else {
      message.error('添加用户失败');
    }
  }
}
const { getFieldDecorator } = props.form;
return (
  <div>
    <div>
      {getFieldDecorator('username', {
        rules: [{ required: true, message: 'Please input your username!' }]},
      )}(
        <input
          placeholder="Username"
        />,
      )}
    </div>
    <div>
      {getFieldDecorator('password', {
        rules: [{ required: true, message: 'Please input your Password!' }]},
      )}(
        <input
          type="password"
          placeholder="Password"
        />,
      )}
    </div>
    <button>添加用户</button>
  </div>
)
}
+const WrappedUserAdd = Form.create({ name: 'UserAdd' })(UserAdd);
+export default WrappedUserAdd;

```

10.4 action-types.tsx

store\action-types.tsx

```
export const SET_USER_INFO = 'SET_USER_INFO';
```

10.5 store\index.tsx

store\index.tsx

```

import { createStore } from 'redux';
import * as TYPES from './action-types';
let initState = {
  currentUser: null
}
const reducer = (state = initState, action) => {
  switch (action.type) {
    case TYPES.SET_USER_INFO:
      return { currentUser: action.payload }
    default:
      return state;
  }
}
export default function initStore(initialState) {
  const store = createStore(reducer, initialState);
  return store;
}

```

11.loading效果

- 路由事件 (<https://nextjs.frontendx.cn/docs/#%E8%B7%AF%E7%94%B1>)

事件 触发时机 routeChangeStart(url) 路由开始切换时触发 routeChangeComplete(url) 完成路由切换时触发 routeChangeError(err, url) 路由切换报错时触发 beforeHistoryChange(url) 浏览器 history 模式开始切换时触发 hashChangeStart(url) 开始切换 hash 值但是没有切换页面路由时触发 hashChangeComplete(url) 完成切换 hash 值但是没有切换页面路由时触发

11.1 pages_app.tsx

```

import App from 'next/app';
import Link from 'next/link';
import { Layout, Menu, Icon, Avatar } from 'antd';
import 'antd/dist/antd.css';
import { withRouter } from 'next/router';
import axios from '../utils/axios';
import initStore from '../store';
import { Provider } from 'react-redux';
import * as TYPES from '../store/action-types';
+import router from 'next/router';
+import { Spin } from 'antd';
const { Header, Footer, Content } = Layout;
declare global {
  interface Window {
    _redux_store_: any
  }
}
function getStore(initialState) {
  if (typeof window == 'undefined') {
    return initStore(initialState);
  } else {
    if (!window._redux_store_) {
      window._redux_store_ = initStore(initialState);
    }
    return window._redux_store_;
  }
}
class LayoutApp extends App {
  store: any
  state = { loading: false }
+  routeChangeStart: any
+  routeChangeComplete: any
  constructor(props) {
    super(props);
    this.store = getStore(props.initialState);
  }
  static async getInitialProps({ Component, ctx }) {
    let store = getStore({});
    let currentUser;
    let options: any = { url: '/api/currentUser' };
    if (ctx.req) {
      (options.headers = options.headers || {}).cookie = ctx.req.headers.cookie;
    }
    let response = await axios(options);
    if (response.data.code == 0) {
      currentUser = response.data.data;
      store.dispatch({ type: TYPES.SET_USER_INFO, payload: currentUser });
    }
    let pageProps = {};
    if (Component.getInitialProps)
      pageProps = await Component.getInitialProps(ctx);

    return { pageProps, currentUser, initialState: store.getState() };
  }
+  componentDidMount() {
+    this.routeChangeStart = (url) => {
+      this.setState({ loading: true });
+    };
+    router.events.on('routeChangeStart', this.routeChangeStart);
+    this.routeChangeComplete = (url) => {
+      this.setState({ loading: false });
+    };
+    router.events.on('routeChangeComplete', this.routeChangeComplete);
+  }
  componentWillUnmount() {
    router.events.off('routeChangeStart', this.routeChangeStart);
    router.events.off('routeChangeComplete', this.routeChangeComplete);
  }
  render() {
    let { Component, pageProps, currentUser } = this.props as any;
    let pathname = this.props.router.pathname;
    pathname = '/' + (pathname.split('/')[1]);
    return (
      <div>
        <div>
          首页
          用户管理
          个人中心
          登录
        </div>
        <div>
          {
            this.props.currentUser &&
            {this.props.currentUser.username}
          }
          {
            this.state.loading ? :
          }
          @copyright 珠峰架构
        </div>
      </div>
    );
  }
}
export default withRouter(LayoutApp);

```

12.受保护路由

12.1 pages/profile.tsx

pages/profile.tsx

```
import router from 'next/router';
import { Button, Layout } from 'antd';
+import axios from '../utils/axios';
const { Content } = Layout;
+function Profile(props) {
  return (
    +      当前登录用户:{props.currentUser.username}
      router.back()>返回
    )
  )
+Profile.getInitialProps = async function (ctx) {
+  let options: any = { url: '/api/currentUser' };
+  if (ctx.req&ctx.req.headers.cookie) {
+    (options.headers = options.headers || {}).cookie = ctx.req.headers.cookie;
+  }
+  let response = await axios(options);
+  if (response.data.code === 0) {
+    return {};
+  } else {
+    if (ctx.req) {
+      ctx.res.writeHead(303, { Location: '/login' })
+      ctx.res.end()
+    } else {
+      router.push('/login');
+    }
+    return {};
+  }
+}
+
+const WrappedProfile = connect(
+  state => state
+)(Profile);
+export default WrappedProfile;
```

13.自定义Document

13.1 pages_document.js

pages_document.js

```
import Document, { Html, Head, Main, NextScript } from 'next/document';
class CustomDocument extends Document {
  static async getInitialProps(ctx) {
    const props = await Document.getInitialProps(ctx);
    return { ...props };
  }
  render() {
    return (
      <Html>
        <Head>
          <style>
            {
              \
              *{
                padding:0;
                margin:0;
              }
              \
            }
          </style>
          <Head>
            <body>
              <Main />
              <NextScript />
            </body>
          </Html>
        </>
      )
    )
  }
}
export default CustomDocument;
```

13.2 pagesindex.tsx

pagesindex.tsx

```
import router from 'next/router'
import { Button, Layout } from 'antd';
import Head from 'next/head'
const { Content } = Layout;
export default function () {
  return (
    <>
      <Head>
        <title>首页title>
        <meta name="description" content="这是首页" />
      </Head>
      <Content style={{ margin: '20px auto' }}>
        <div>Homediv>
          <Button onClick={() => router.push('/user')}>/userButton>
        </div>
      </Content>
    </>
  )
}
```

14.服务端

yarn add express body-parser cors express-session connect-mongo mongoose

14.1 api/index.js

```

let express = require("express");
let bodyParser = require("body-parser");
let cors = require("cors");
let Models = require('./db');
let session = require("express-session");
let config = require('./config');
let MongoStore = require('connect-mongo')(session);
let app = express();
app.use(
  cors({
    origin: ['http://localhost:3000'],
    credentials: true,
    allowedHeaders: "Content-Type,Authorization",
    methods: "GET,HEAD,PUT,PATCH,POST,DELETE,OPTIONS"
  })
);
app.use(bodyParser.urlencoded({ extended: false }));
app.use(bodyParser.json());
app.use(
  session({
    secret: config.secret,
    resave: false,
    saveUninitialized: true,
    store: new MongoStore({
      url: config.dbUrl,
      mongoOptions: {
        useNewUrlParser: true,
        useUnifiedTopology: true
      }
    })
  })
);
app.get('/api/users', async (req, res) => {
  let users = await Models.UserModel.find();
  res.send({ code: 0, data: users });
});
app.get('/api/users/:id', async (req, res) => {
  let user = await Models.UserModel.findById(req.params.id);
  res.send({ code: 0, data: user });
});
app.post('/api/register', async (req, res) => {
  let user = req.body;
  user = await Models.UserModel.create(user);
  res.send({ code: 0, data: user });
});
app.post('/api/login', async (req, res) => {
  let user = req.body;
  let dbUser = await Models.UserModel.findOne(user);
  if (dbUser) {
    req.session.currentUser = dbUser;
    res.send({ code: 0, data: dbUser });
  } else {
    res.send({ code: 1, error: '登录失败' });
  }
});
app.get('/api/currentUser', async (req, res) => {
  let currentUser = req.session.currentUser;
  if (currentUser) {
    res.send({ code: 0, data: currentUser });
  } else {
    res.send({ code: 1, error: '当前用户未登录' });
  }
});
app.listen(4000, () => {
  console.log('服务器在4000端口启动!');
});

```

14.2 api\config.js

api\config.js

```

module.exports = {
  secret: 'zhufeng',
  dbUrl: "mongodb://127.0.0.1/zhufengnext2"
}

```

14.3 api\db.js

api\db.js

```

const mongoose = require('mongoose');
const Schema = mongoose.Schema;
const ObjectId = Schema.Types.ObjectId;
const config = require('./config');
const conn = mongoose.createConnection(config.dbUrl, { useNewUrlParser: true, useUnifiedTopology: true });
const UserModel = conn.model('User', new Schema({
  username: { type: String },
  password: { type: String }
}), { timestamps: { createdAt: 'created', updatedAt: 'updated' } });

module.exports = {
  UserModel
}

```