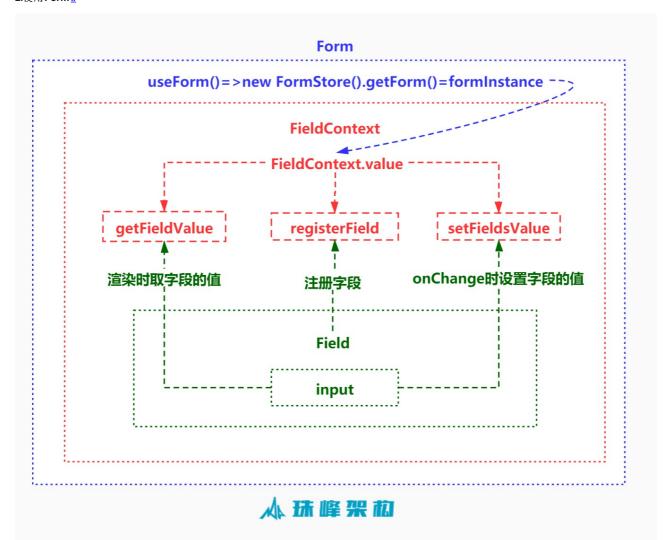
link null title: 珠峰架构师成长计划 description: null keywords: null author: null date: null publisher: 珠峰架构师成长计划 stats: paragraph=82 sentences=249, words=1648

1.生成项目#

- rc-field-form (https://www.npmjs.com/package/rc-field-form)
 async-validator (https://github.com/yiminghe/async-validator)

```
create-react-app zhufeng_antdesign-form cd zhufeng_antdesign-form
yarn add rc-field-form
yarn start
```

2.使用Form#



2.1 src\index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import Form, { Field } from 'rc-field-form';
ReactDOM.render(
  <Form
    initialValues={{username:'',password:''}}
    onFinish={values => {
  console.log('完成:', values);
    } }
    <Field name="username">
       <input placeholder="用户名" />
    Field>
    <Field name="password">
  <input placeholder="密码" />
    <button>提交button>
  document.getElementById('root')
```

3.实现双向数据绑定

3.1 src\index.js

3.2 rc-field-form\index.js

src\rc-field-form\index.js

```
import Form from "./Form";
import Field from "./Field";
import useForm from "./useForm";
export default Form;
export {
   Field, useForm
}
```

3.3 Form.js

src\rc-field-form\Form.js

```
import React from "react";
import useForm from "./useForm";
import FieldContext from "./FieldContext";
 const Form = ({initialValues,onFinish,children}) => {
  const [formInstance] = useForm();
formInstance.setCallbacks({
    onFinish
  const mountRef = React.useRef(null);
  formInstance.setInitialValues(initialValues, !mountRef.current);
  if (!mountRef.current) {
  mountRef.current = true;
  return (
    <form
      onSubmit={event => {
         event.preventDefault();
event.stopPropagation();
         formInstance.submit();
       <FieldContext.Provider value={formInstance}>
         {children}
       FieldContext.Provider>
    form>
  ):
export default Form;
```

3.4 FieldContext.js

src\rc-field-form\FieldContext.js

```
import React from "react";
const warningFunc = () => {
    console.warn(false, '无法找到FormContext. 请确定你是在Form下面使用Field');
};
const Context = React.createContext({
    getFieldValue: warningFunc,
    getFieldSValue: warningFunc,
    setFieldSValue: warningFunc,
    submit: warningFunc,
    submit: warningFunc,
});
export default Context;
```

3.5 Field.js

 $src\ \ rc\ -field\ -form\ \ \ Field\ .js$

```
import React from "react";
import FieldContext from "./FieldContext";
class Field extends React.Component {
  static contextType = FieldContext;
componentDidMount() {
    this.context.registerField(this);
  onStoreChange = () => {
    this.forceUpdate();
  getControlled = (childProps) => {
    const {name} = this.props;
const {getFieldValue, setFieldsValue} = this.context;
     return {
       ...childProps,
       value: getFieldValue(name),
onChange: event => {
         setFieldsValue({[name]: event.target.value});
  };
  render() {
    const { children } = this.props;
const returnChildNode = React.cloneElement(children, this.getControlled(children.props));
     return returnChildNode;
export default Field;
```

3.6 useForm.js

src\rc-field-form\useForm.js

```
import React from 'react';
class FormStore
    fieldEntities = []:
    initialValues = {};
    callbacks = {}:
    constructor(forceRootUpdate) {
        this.forceRootUpdate = forceRootUpdate;
    getForm = () => ({
       getFieldValue: this.getFieldValue,
        getFieldsValue: this.getFieldsValue,
        setFieldsValue: this.setFieldsValue,
        setInitialValues: this.setInitialValues,
        setCallbacks: this.setCallbacks,
        registerField: this.registerField,
        submit: this.submit,
   setInitialValues = (initialValues) => {
    this.store = { ...initialValues };
};
    setCallbacks = (callbacks) => {
    getFieldValue = (name) =>
    return this.store[name];
};
    getFieldsValue = () => {
    registerField = (entity) => {
       this.fieldEntities.push(entity);
    setFieldsValue = (store) => {
        this.store = { ...this.store, ...store };
this.fieldEntities.forEach(({ onStoreChange }) => {
           onStoreChange();
        });
    submit = () => {
        const { onFinish } = this.callbacks;
if (onFinish) {
            onFinish(this.store);
    };
 export default function useForm(form) {
    const formRef = React.useRef();
const [, forceUpdate] = React.useState({});
    if (!formRef.current) {
        if (form) {
            formRef.current = form;
        } else {
            const forceReRender = () => {
                forceUpdate({});
            const formStore = new FormStore(forceReRender);
            formRef.current = formStore.getForm();
        }
    return [formRef.current];
```

4.1 src\index.js

src\index.js

4.2 Form.js

src\rc-field-form\Form.js

4.3 useForm.js

src\rc-field-form\useForm.js

```
import React from 'react';
import AsyncValidator from './async-validator';
class FormStore {
    store = {};
    fieldEntities = [];
    initialValues = {};
    callbacks = {};
constructor(forceRootUpdate) {
         this.forceRootUpdate = forceRootUpdate;
    getForm = () => ({
         getFieldValue: this.getFieldValue,
         getFieldsValue: this.getFieldsValue,
setFieldsValue: this.setFieldsValue,
          setInitialValues: this.setInitialValues,
          setCallbacks: this.setCallbacks,
          registerField: this.registerField,
          submit: this.submit,
    setInitialValues = (initialValues) => {
    this.store = { ...initialValues };
    setCallbacks = (callbacks) => {
         this.callbacks = callbacks;
    getFieldValue = (name) =>
         return this.store[name];
    getFieldsValue = () => {
         return this.store;
    registerField = (entity) => {
         this.fieldEntities.push(entity);
    setFieldsValue = (store) => {
   this.store = { ...this.store, ...store };
   this.fieldEntities.forEach(({ onStoreChange }) => {
        onStoreChange();
});
     submit = () => {
        this.validateFields()
        .then(values => {
          const { onFinish } = this.callbacks;
          if (onFinish) {
                onFinish(values);
        .catch(errorInfo => {
          const { onFinishFailed } = this.callbacks;
if (onFinishFailed) {
             onFinishFailed(errorInfo);
        });
     validateFields = () => {
  let values = this.getFieldsValue();
        let values = tnis.getrieinsvalue();
let descriptor = this.fieldEntitities.reduce((descriptor,entity)=>{
    let rules = entity.props.rules;
    if(rules && rules.length) {
        let config = rules.reduce((config,rule)=>{
            config = {...config,...rule};
            return config;
        }
}
                },{});
                descriptor[entity.props.name]=config;
          return descriptor;
        return new AsyncValidator(descriptor).validate(values);
export default function useForm(form) {
    const formRef = React.useRef();
const [, forceUpdate] = React.useState({});
if (!formRef.current) {
         if (form) {
               formRef.current = form;
          } else {
              const forceReRender = () => {
                   forceUpdate({});
               const formStore = new FormStore(forceReRender);
               formRef.current = formStore.getForm();
    return [formRef.current];
```

4.4 async-validator.js

src\async-validator.js

```
class Schema
    constructor (descriptor) {
         this.descriptor = descriptor;
    validate(values) {
         return new Promise((resolve, reject) => {
             let errorFields = [];
for (let name in this.descriptor) {
   let rules = this.descriptor[name];
                   if (rules) {
                        let ruleKeys = Object.keys(rules);
                       } else if (ruleKey === 'type') {
                                 if (typeof values[name] !== rules[ruleKey]) {
  errors.push(`${name} is not ${rules[ruleKey]}`);
                             }else if (ruleKey === 'min') {
   if (values[name].length < rules[ruleKey]) {
      errors.push(`${name} must be at least ${rules[ruleKey]} characters`);</pre>
                        if(errors && errors.length){
                             errorFields.push({name,errors});
              if(errorFields && errorFields.length>0){
                   reject({errorFields,values});
              |else|
                   resolve(values);
         });
    1
```

5.实现异步校验

5.1 src\index.js

src\index.js

5.2 async-validator.js

src\rc-field-form\async-validator.js

6.按需加载

6.1 生成项目

```
create-react-app zhufeng-antdesign-form
cd zhufeng-antdesign-form
yarn add react-app-rewired customize-cra babel-plugin-import
npm start
```

6.1 使用antd

6.1.1 安装依赖

yarn add react-app-rewired customize-cra babel-plugin-import less less-loader

6.1.2 config-overrides.js

config-overrides.js

6.1.3 package.json

package.json

```
+ "scripts": {
        "start": "react-app-rewired start",
        "build": "react-app-rewired build",
        "test": "react-app-rewired test",
        "eject": "react-app-rewired eject"
        "
```

6.1.4 src\index.js

src\index.js