```
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```

1. 安装和初始化

```
$ yarn create :
$ cd antd-form
  yarn create react-app antd-form
$ yarn start
```

2. 引入 antd

\$ yarn add antd

3. 支持typescript

yarn add typescript @types/node @types/react @types/react-dom @types/jest

- typescript
- @types/node 可以获得有关node.js的API的类型说明文件
 @types/react react的声明文件
- @types/react-dom react-dom的声明文件
- @types/jest jest的声明文件

4.表单组件

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import UserForm from './UserForm';
ReactDOM.render(<UserForm />, document.getElementById('root'));
```

```
import * as React from 'react'
import Form from 'antd/lib/form';
interface Props {
class UserForm extends React.Component<Props>
    handleSubmit = (event: React.FormEvent) => {
        event.preventDefault();
         \textbf{this}. \texttt{props.form.validateFields((error: any, values: any)} \ => \ \{
             console.log(error);
             console.log(values);
        });
    render() {
        let { getFieldDecorator } = this.props.form;
        return (
             <div>
                 <Form onSubmit={this.handleSubmit}>
                      <Form.Item label="用户名">
                          {getFieldDecorator('username', {
                               rules: [{ required: true, message: '用户名必须输入' }]
                          }) (<input />)}
                      Form.Item>
<Form.Item label="密码">
                          {getFieldDecorator('password', {
                               rules: [
                                   { required: true, message: '密码必须输入' },
{ min: 6, message: '密码长度不能小于6位' },
{ max: 8, message: '密码长度不能大于8位' }
                               ]
                          }) (
                              <input />
                          ) }
                      Form.Item>
                      <Form.Item>
<button>提交button>
                      Form.Item>
                 Form>
            div>
export default Form.create()(UserForm);
```

5.实现表单组件

src\UserForm.tsx

```
import * as React from 'react'
import Form from './antd/lib/form';
interface Props {
    form: any
class UserForm extends React.Component<Props> {
    render() {
         return (
                  <Form>
                       <Form.Item label="用户名">
                       <input />
Form.Item>
                       <Form.Item label="密码">
<input />
                       Form.Item>
                       <Form.Item>
                            <button>提交button>
                       Form.Item>
                 Form>
    }
export default Form.create()(UserForm);
```

src\antd\lib\form\index.tsx

```
import Form from './Form';
export default Form;
```

src\antd\lib\form\Form.tsx

```
import * as React from 'react';
import FormItem from './FormItem';
import create from './create';

export default class extends React.Component{
    static Item = FormItem;
    static create = create;
    render(){
        return <form {...this.props}/>
    }
}
```

src\antd\lib\form\FormItem.tsx

src\antd\lib\form\create.tsx

6. 获取数据

src\UserForm.tsx

```
import * as React from 'react'
import Form from './antd/lib/form';
 interface Props {
    form: any
class UserForm extends React.Component<Props> {
    handleSubmit = (event:React.FormEvent) => {
    event.preventDefault();
        let values = this.props.form.getFieldsValue();
         console.log(values);
    render() {
        let {getFieldDecorator} = this.props.form;
         return (
             <Form onSubmit={this.handleSubmit}>
                <Form.Item label="用户名">
                     {getFieldDecorator('username')(<input/>)}
                 Form.Item>
                 <Form.Item label="密码">
                     {getFieldDecorator('password')(<input/>)}
                 Form.Item>
                 <Form.Item>
                     <button>提交button>
                 Form.Item>
            Form>
export default Form.create()(UserForm);
```

src/antd/lib/form/Form.tsx

```
import * as React from 'react';
import FormItem from './FormItem';
import create from './FormItem';
interface FormProps{
    onSubmit:any
}
export default class extends React.Component<FormProps>{
    static Item = FormItem;
    static create = create;
    render(){
        return <form {...this.props}/>
    }
}
```

src/antd/lib/form/create.tsx

```
import * as React from 'react';
 nterface FormProps {
interface Objects{
    [propName: string]: any;
interface FormState {
    values:Objects,
export default function() {
    return function decorate(WrappedComponent:any) {
    class Form extends React.Component<FormProps,FormState>{
              state = {values:{}}
handleChange = (event:React.ChangeEvent,name:string) =>{
                   this.setState({
                      values:{...this.state.values,[name]:event.target.value}
                   });
              getFieldDecorator = (name:string,fieldOption:any) =>{
   return (fieldElement:any) =>{
                      let values:Objects = this.state.values;
let props:Objects = {
                             value:values[name]||'',
                             onChange: (event:React.ChangeEvent) =>this.handleChange(event,name)
                        return React.cloneElement(fieldElement, props);
              getFieldsValue = ()=>{
                  return this.state.values;
                   const props = {
                       form:{
                            getFieldDecorator:this.getFieldDecorator,
getFieldsValue:this.getFieldsValue
                   return <WrappedComponent {...props}/>;
         return Form;
```

7. 表单校验

src\UserForm.tsx

```
import * as React from 'react'
import Form from './antd/lib/form';
interface Props {
   form: any
 class UserForm extends React.Component<Props> {
     handleSubmit = (event:React.FormEvent) => {
    event.preventDefault();
           this.props.form.validateFields((error:any,values:any)=>{
   console.log(error);
   console.log(values);
           });
      render() {
           let {getFieldDecorator} = this.props.form;
            return (
                 <div>
                      <Form onSubmit={this.handleSubmit}>
    <Form.Item label="用户名">
                                  {getFieldDecorator('username',{
                            {getrieidDecorator('username', {
        rules:[{required:true,message:'用户名必须输入'}]
})(<input/>)}
Form.Item>
<Form.Item label="密码">
                                  {getFieldDecorator('password',{ rules:[
                                             {required:true,message:'密码必须输入'},
{min:3,message:'密码长度不能小于6位'},
{max:8,message:'密码长度不能大于8位'}
                                  }) (<input/>)}
                             Form.Item>
                             <Form.Item>
                            Form>
                div>
export default Form.create()(UserForm);
```

src/antd/lib/form/create.tsx

```
import * as React from 'react';
 nterface FormProps {
interface Objects{
   [propName: string]: any;
.
interface FormState {
   values:Objects.
    errors:Objects
type ValidateCallback = (errors: any, values: V) => void;
 xport default function() {
    return function decorate (WrappedComponent:any) {
        {\tt class \ Form \ extends \ React.Component < Form Props, Form State} > \{
            state = {values:{},errors:{}}
            rules:Objects={}
            handleChange = (event:React.ChangeEvent,name:string) =>{
                 this.setState({
                    values:{...this.state.values,[name]:event.target.value}
                 },()=>this.validateFields([name]));
            validateFields = (fields:Array|ValidateCallback,callback?:Array|ValidateCallback) =>{
                 if(typeof fields == 'function'){
                     callback = fields;
fields = Object.keys(this.rules);
                 let errors:Objects = this.state.errors;
                 (fields as Array).forEach((field:string)=>{
  let rules = this.rules[field];
  if(rules && rules.length>0){
                         let values:Objects = this.state.values;
                         let value = values[field];
                         let fieldErrors = rules.map((rule:Objects)=>{
                             if((rule.required && !value)||
(rule.min && value && value.length < rule.min)||</pre>
                                  (rule.max && value && value.length > rule.max)
                              return {field.message:rule.message};
                         }}).filter((item:any)=>item);
                         if(fieldErrors.length>0){
    errors[field] = {errors:fieldErrors};
                         }else{
                              delete errors[field];
                 let error = Object.keys(errors).length>0?errors:null;
                 this.setState({errors},()=>{
                     callback&& (callback as ValidateCallback) (error, this.state.values);
            getFieldDecorator = (name:string,fieldOption:anv)=>{
                 if(fieldOption.rules){
                     this.rules[name] = fieldOption.rules;
                 return (fieldElement:any) =>
                     let values:Objects = this.state.values;
let props:Objects = {
                          value:values[name]||'',
                         onChange: (event:React.ChangeEvent) =>this.handleChange(event,name)
                     let errors:Objects = this.state.errors;
                     let fieldErrors = errors[name];
                     let messages = [];
                     if(fieldErrors && fieldErrors.errors.length>0) {
                         props.style={border:'lpx solid red'};
                          messages = fieldErrors.errors.map((item:any)=>item.message).map((message:string,index:number)=>
{message}p>);
                     let inputElement = React.cloneElement(fieldElement, props);
                     return <div>{inputElement} {messages.length>0&&messages}div>
            getFieldsValue = ()=>{
                 return this.state.values;
             render(){
                 const props = {
                         getFieldDecorator:this.getFieldDecorator,
                         getFieldsValue:this.getFieldsValue,
                         validateFields:this.validateFields
                 return <WrappedComponent {...props}/>;
        return Form;
```