

React Forms

Um overview sobre os frameworks react para formulários



Sobre:

Analista de sistemas

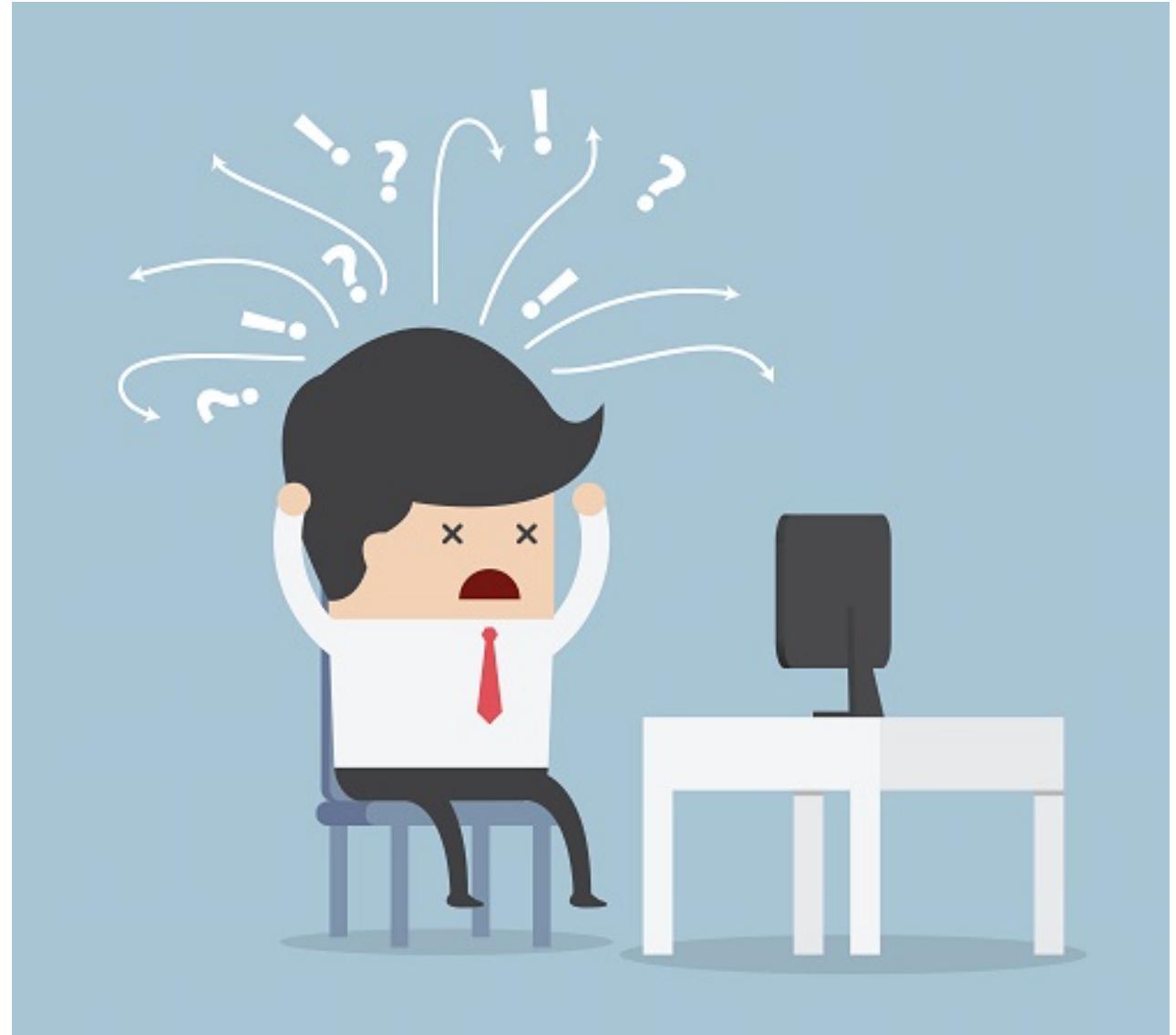
Desenvolvedor frontend na GreenMile

@adaltojunior86

Motivação

Um simples form precisa de três ações:

- Gerenciar o estado
- Validação e mensagens de erro
- Manipular o envio do formulário



Exemplo de um ‘vanilla’ form

```
class VanillaForm extends React.Component {  
}  
  
export default VanillaForm;
```

```
constructor(props) {
  super(props);
  this.state = {
    title: '',
    description: '',
  };
  this.onChange = this.onChange.bind(this);
  this.onChangeAuthor = this.onChangeAuthor.bind(this);
}
```

```
onChange(event) {
  let state = {};
  const { name, value } =
    event.target;
  switch (name) {
    case 'title':
      state = { title: value };
      break;
    case 'description':
      state = { description: value }
      break;
  }
  this.setState(state);
}
```

```
render() {
  return (
    <form onSubmit={this.onHandleSubmit}>
      <label>Title:
        <input
          type="text"
          name="title"
          onChange={this.onChange}
          value={this.state.title}
        />
      </label>
      <label>Description:
        <input
          type="text"
          name="description"
          onChange={this.onChange}
          value={this.state.description}
        />
      </label>
      <input type="submit" value="Save" />
    </form>
  )
}
```

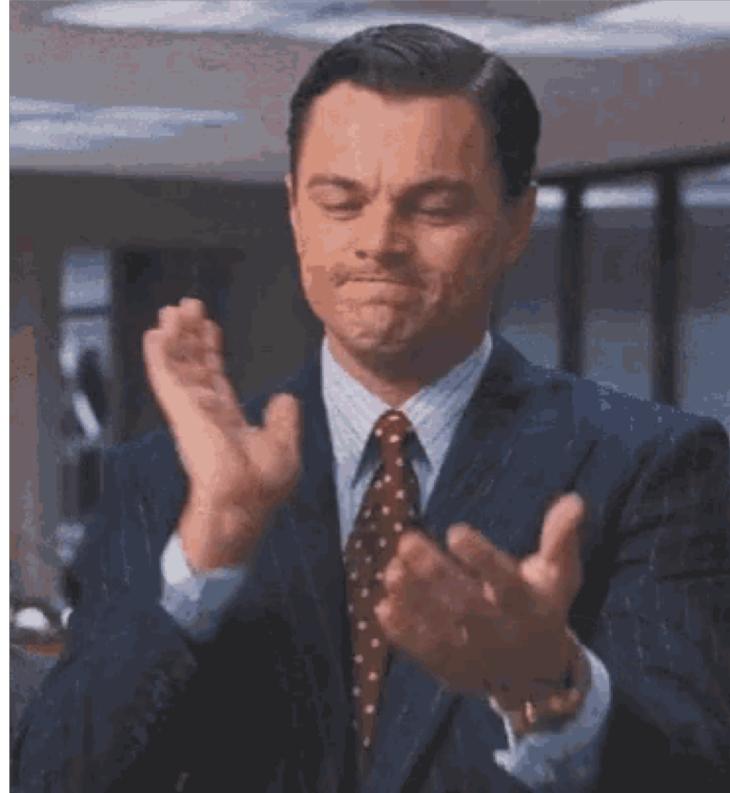
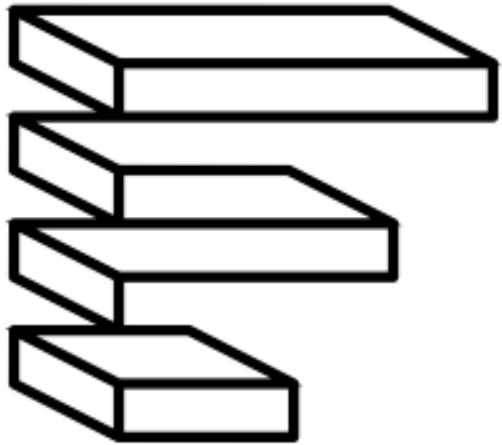
Se um simples
form é assim,
imagina um mais
complexo!!!



OOWEEE.TUMBLR.COM



E agora quem poderá nos ajudar?



React form frameworks



Redux Form



Gerenciamento do estado usando redux
High order component (HOC)
Validação síncrona e assíncrona



Código verboso
Redux is too much complicated

O que é HOC?



É apenas uma função
que pega um
componente existente
e retorna um outro
componente

```
reduxForm({  
  form: 'reduxFormSample',  
  validate: validateForm  
})(FormReduxForm);
```

Show me the code!!!

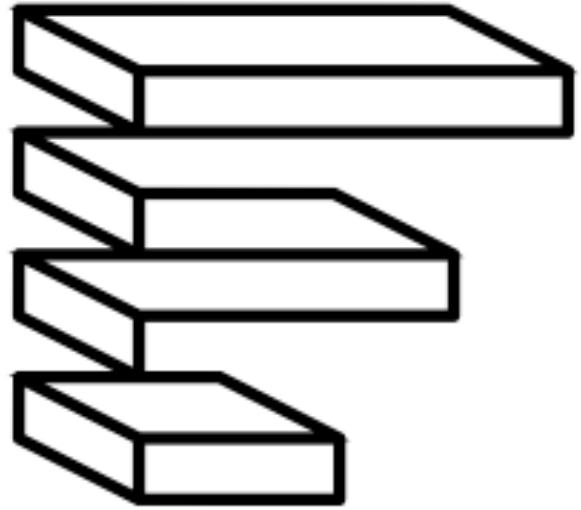
```
import { Field, reduxForm } from 'redux-form';
```

```
const reduxFormSampleWrapped = reduxForm({  
  form: 'reduxFormSample',  
  validate: validateForm  
})(FormReduxForm);
```

```
const renderTextField = ({ input, placeholder }) =>  
  (<TextField {...input} placeholder={placeholder} />  
);  
  
<Field  
  name="email"  
  placeholder="Email"  
  type="email"  
  component={renderTextField}  
/>
```

```
const validateForm = (values) => {
  const errors = {};
  if (!values.firstName) {
    errors.firstName = 'required'
  }
  return errors;
}
```

```
<form onSubmit={
  handleSubmit(() => {
    console.log('submitted')
  })
}>
  <Field
    name="firstName"
    placeholder="First Name"
    component={renderTextField}
  />
  <Field
    name="lastName"
    placeholder="Last Name"
    component={renderTextField}
  />
  <Field
    name="email"
    placeholder="Email"
    type="email"
    component={renderTextField}
  />
  <button type="submit" >Submit</button>
</form>
```



Formik



Render props approach
Validação usando lib de terceiros (Yup)
You don't need redux 😊 (Glória a Deuxxx)

Show me the code!!!

```
import { Formik, Form, Field } from 'formik';
```

```
const renderTextField = ({  
  field,  
  placeholder,  
  form: { submitCount, errors }  
}) => (  
  <TextField  
    {...field}  
    placeholder={placeholder}  
    helperText={  
      (submitCount && errors[field.name])  
        ? errors[field.name] : ''  
    }  
    error={Boolean(submitCount && errors[field.name])}  
  />  
);  
  
<Field  
  name="firstName"  
  placeholder="First Name"  
  component={renderTextField}  
/>
```

```
<Formik
  validate={(values) => {
    const errors = {};
    if (!values.firstName) {
      errors.firstName =
        'required';
    }
    return errors;
  }}
  initialValues={({firstName: '',
    lastName: '',
    email: '',
    sex: 'female'
})})
  onSubmit={(props) => {
    console.log(props);
 }}
  render={() => {
}} />
```

Resources



- <https://reactjs.org/>
- <https://redux-form.com/7.4.2/>
- <https://jaredpalmer.com/formik/docs/overview>
- <https://material-ui.com/>
- <https://medium.freecodecamp.org/higher-order-components-the-ultimate-guide-b453a68bb851>
- <https://github.com/adaltojunior86/react-forms-sample>



