Form validation with Formik and Folktale

Agenda

1. Formik

2. Folktale

3. module folktale/validation

4. Example

Formik

Handles the three following tasks for you:

1. Getting values in and out of form state

2. Validation and error messages

3. Handling form submission

Formik

```jsx
import { Formik } from 'formik';
import { LoginForm } from './LoginForm'

export function Login() {
  return (
    <Formik
      component={LoginForm}
      initialValues={{ userName: '', password: '' }}
      onSubmit={handleSubmit}
    />
  )
}
```

Form and Fields

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

export function LoginForm() {
  return (
    <Form>
      <Field
        type="text"
        name="userName"
        placeholder="Enter user name"
      />
    </Form>
  )
}
```

From and Fields

```
import { Field, Form } from 'formik';
import { PasswordInput } from './PasswordInput';

export function LoginForm() {
  return (
    <Form>
      <Field
        name="password"
        component={PasswordInput}
      />
    </Form>
  )
}
```

Form Submission

```javascript
function handleSubmit(formValues, formikActions) {
  // ...

  formikActions.setSubmitting(false)
}
```

Validation

```
function validateForm(formValues) {
  //...

  return {
    userName: "Name can't be empty.",
    password: "Password can't be empty.",
  }
}

<Formik validate={validateForm} />
```

Folktale

Data Structures

— maybe
A data structure that models the presence or absence of a value.

— result
A data structure that models the result of operations that may fail.

— validation
A data structure to aggregate **all** failures

Module folktale/validation

— Success(value)

— Failure(error)

— Combining validations with `collect()`

— Transforming values with `map()`, `mapFailure()`

— Reacting to results with `matchWith()`

Example

Thank you!