### React Redux Form

#### Objectives and Outcomes

In this exercise you will install react-redux-form and then convert the controlled form that we created earlier into a form supported by react-redux-form. At the end of this exercise you will be able to:

* Install and configure react-redux-form
* Implement a controlled form using react-redux-form

#### Installing and Using react-redux-form

* We first install the react-redux-form into our project as follows:

yarn add react-redux-form@1.16.8

* Then open ContactComponent.js and update the Feedback Form to use react-redux-form:

. . .

import { Breadcrumb, BreadcrumbItem,

Button, Row, Col, Label } from 'reactstrap';

import { Control, LocalForm, Errors } from 'react-redux-form';

. . .

handleSubmit(values) {

console.log('Current State is: ' + JSON.stringify(values));

alert('Current State is: ' + JSON.stringify(values));

// event.preventDefault();

}

. . .

<LocalForm onSubmit={(values) => this.handleSubmit(values)}>

<Row className="form-group">

<Label htmlFor="firstname" md={2}>First Name</Label>

<Col md={10}>

<Control.text model=".firstname" id="firstname" name="firstname"

placeholder="First Name"

className="form-control"

/>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="lastname" md={2}>Last Name</Label>

<Col md={10}>

<Control.text model=".lastname" id="lastname" name="lastname"

placeholder="Last Name"

className="form-control"

/>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="telnum" md={2}>Contact Tel.</Label>

<Col md={10}>

<Control.text model=".telnum" id="telnum" name="telnum"

placeholder="Tel. Number"

className="form-control"

/>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="email" md={2}>Email</Label>

<Col md={10}>

<Control.text model=".email" id="email" name="email"

placeholder="Email"

className="form-control" />

</Col>

</Row>

<Row className="form-group">

<Col md={{size: 6, offset: 2}}>

<div className="form-check">

<Label check>

<Control.checkbox model=".agree" name="agree"

className="form-check-input"

/> {' '}

<strong>May we contact you?</strong>

</Label>

</div>

</Col>

<Col md={{size: 3, offset: 1}}>

<Control.select model=".contactType" name="contactType"

className="form-control">

<option>Tel.</option>

<option>Email</option>

</Control.select>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="message" md={2}>Your Feedback</Label>

<Col md={10}>

<Control.textarea model=".message" id="message" name="message"

rows="12"

className="form-control" />

</Col>

</Row>

<Row className="form-group">

<Col md={{size:10, offset: 2}}>

<Button type="submit" color="primary">

Send Feedback

</Button>

</Col>

</Row>

</LocalForm>

. . .

* Save all the changes and do a Git commit with the message "React Redux Form".

#### Conclusions

In this exercise we installed and used the react-redux-form to design a controlled form.

### React Redux Form Validation

#### Objectives and Outcomes

In this exercise we will explore simple form validation for react-redux-form. At the end of this exercise you will be able to:

* Configure and implement simple form validation for controlled forms designed using react-redux-form.

#### Implementing Simple Form Validation

* Open ContactComponent.js and update it as follows to implement form validation:

. . .

const required = (val) => val && val.length;

const maxLength = (len) => (val) => !(val) || (val.length <= len);

const minLength = (len) => (val) => val && (val.length >= len);

const isNumber = (val) => !isNaN(Number(val));

const validEmail = (val) => /^[A-Z0-9.\_%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}$/i.test(val);

. . .

<Row className="form-group">

<Label htmlFor="firstname" md={2}>First Name</Label>

<Col md={10}>

<Control.text model=".firstname" id="firstname" name="firstname"

placeholder="First Name"

className="form-control"

validators={{

required, minLength: minLength(3), maxLength: maxLength(15)

}}

/>

<Errors

className="text-danger"

model=".firstname"

show="touched"

messages={{

required: 'Required',

minLength: 'Must be greater than 2 characters',

maxLength: 'Must be 15 characters or less'

}}

/>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="lastname" md={2}>Last Name</Label>

<Col md={10}>

<Control.text model=".lastname" id="lastname" name="lastname"

placeholder="Last Name"

className="form-control"

validators={{

required, minLength: minLength(3), maxLength: maxLength(15)

}}

/>

<Errors

className="text-danger"

model=".lastname"

show="touched"

messages={{

required: 'Required',

minLength: 'Must be greater than 2 characters',

maxLength: 'Must be 15 characters or less'

}}

/>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="telnum" md={2}>Contact Tel.</Label>

<Col md={10}>

<Control.text model=".telnum" id="telnum" name="telnum"

placeholder="Tel. Number"

className="form-control"

validators={{

required, minLength: minLength(3), maxLength: maxLength(15), isNumber

}}

/>

<Errors

className="text-danger"

model=".telnum"

show="touched"

messages={{

required: 'Required',

minLength: 'Must be greater than 2 numbers',

maxLength: 'Must be 15 numbers or less',

isNumber: 'Must be a number'

}}

/>

</Col>

</Row>

<Row className="form-group">

<Label htmlFor="email" md={2}>Email</Label>

<Col md={10}>

<Control.text model=".email" id="email" name="email"

placeholder="Email"

className="form-control"

validators={{

required, validEmail

}}

/>

<Errors

className="text-danger"

model=".email"

show="touched"

messages={{

required: 'Required',

validEmail: 'Invalid Email Address'

}}

/>

</Col>

</Row>

. . .

* Save all the changes and do a Git commit with the message "React Redux Form Validation"

#### Conclusions

In this exercise you learnt about implementing simple form validation using react-redux-form.