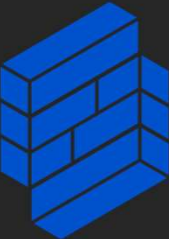

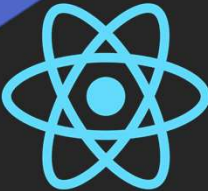


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PART-1




React FORMIK
Crash Course

Contents

- Introduction to Formik
- Formik Installation
- Form State, Validation, Submission
- Schema Validation with Yup
- Reducing Boilerplate
- Formik Core Components
- Formik Advanced Components
- Summary

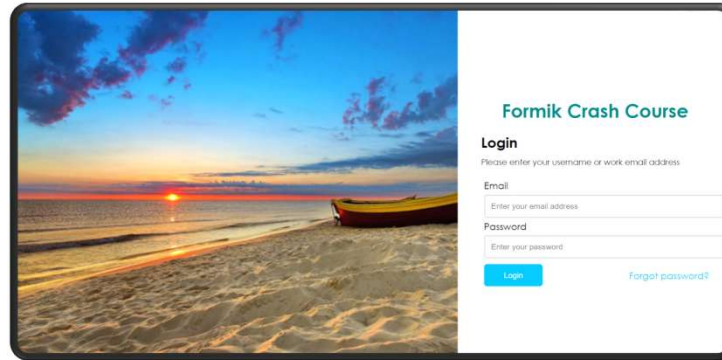


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**FORMIK**

Final Output

- By the end of this course, you can see this Login form, Registration Form and Enrollment Forms with fully functional using Formik Library.



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Introduction to Formik

- Formik is a small group of React components and hooks for building forms in React and React Native. It helps with the three most annoying parts:

- 1) Getting values in and out of form state
- 2) Validation and error messages
- 3) Handling form submission

- *As Formik is using context api, it doesn't need any state management libraries like redux or flux.*



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Formik Installation

- Create a new react application:
 - `npx create-react-app formik-crash-course`
- Install formik:
 - `npm i formik`
 - OR
 - `yarn add formik`
- `import {useFormik} from 'formik';`
- Reference: <https://www.npmjs.com/package/formik>



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Form State, Validation, Submission

- **useFormik** – a hook to use the formik library.
- **Form State:**
 - **initialValues** – an object to define initial values of the form.
 - **values** – values of the form for each input.
 - **name** – a very important attribute to get and set the state values.
 - **value** – state value
 - **onChange** – input event for detecting input changes.



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Form State, Validation, Submission

➤ **Form Validation:**

- **validate** – a method which takes values as an argument to handle validation for each input field.
- **errors** – errors of the form for each input.
- **onBlur** – input event for detecting input touch

➤ **Form Submission:**

- **onSubmit** – a method which takes values as an argument to handle form submission



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Schema Validation with Yup

➤ **Install yup:**

- **npm i yup**
- OR
- **yarn add yup**

➤ **import * as Yup from 'yup';**

- Reference: <https://www.npmjs.com/package/yup>



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Schema Validation with Yup

- **validationSchema** – property used for form level validation schema using Yup.
- **Few import Yup validation methods:**
- `Yup.object({key:validation})`
- `Yup.string().required("Validation Message");`
- `Yup.string().email("Invalid email").required("Required");`
- `Yup.number().required().positive().integer();`
- `Yup.string().url()`
- `Yup.date().required().nullable()`
- `Yup.number().min(18)`
- `Yup.array().required()`
- **Custom Validation:** `Yup.string().matches(RegularExpression,"Error Message");`



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Reducing Boilerplate

- **getFieldProps()** - it returns to you the exact group of onChange, onBlur, value, checked for a given field. You can then spread that on an input, select, or textarea.

getFieldProps() = onChange, onBlur and value.



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Formik Components

- **Formik** has 4 main components.
- **Formik** – It is a replacement for **useFormik()** hook.
- **Form** – it is a form to wrap the form elements. **Simply form tag.**
- **Field** – input fields with **name prop as mandatory**. We can give custom inputs by using “**as**” prop or “**component**” prop. We can also do field level validation.
- **ErrorMessage** – **name prop is mandatory** and **render** or **component prop** can be used to display the custom error message with style.



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Formik Components Advanced

- **Render Props Pattern**
- **Nested Objects**
- **Arrays**
- **Advanced Formik Components:**
- **FieldArray**
- **FastField**
- Validation runs in **1.if any input changes, 2.when input touched, 3.on page load, 4.when form submitted**. We can restrict it with **validateOnChange** and **validateOnBlur** props.
- Field level validation using **validate** prop in Field component.



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Formik Components Advanced

- **Manual Triggering Validation**
 - ✓ `validateField(fieldName)`
 - ✓ `validateForm()`
 - ✓ `setFieldTouched(fieldName)`
 - ✓ `setTouched({key:value})`
- **Disabling submit button:**
 - ✓ Case-1: after clicking submit button if the form is invalid (!isValid)
 - ✓ Case-2: On page load (validateOnMount)
 - ✓ Case-3: On filling mandatory fields (!(dirty & isValid))
 - ✓ Case-4: On pre populating default data
 - ✓ Case-5: while form submission is in progress
- **Load Saved Data and Reset Form**



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Summary

- ✓ We have seen how to save the form state, validation and form submission in traditional way and with formik components.
- ✓ We have learned Yup validation library.
- ✓ We have learned how to use formik core and advanced components like Formik, Form, Field, ErrorMessage, FieldArray and FastField.
- ✓ We have learned how to trigger the validation manually with different validation methods and we have seen all the cases where disable option will be used in the forms.
- ✓ Finally, we have learned how to load the saved data and how to reset the form.



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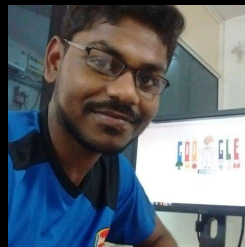
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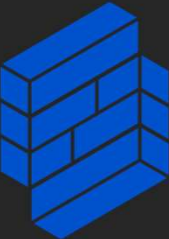

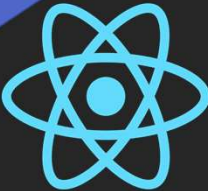
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PART-2




React FORMIK
Crash Course

Contents

- Formik With Reusable Components
- Formik Practical Forms
- Formik with Third Party Libraries
- Formik with Material UI
- Summary



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Formik With Reusable Components

➤ Formik Container and Formik Control

➤ Reusable Formik Components:

- ✓ Input
- ✓ Textarea
- ✓ Select
- ✓ Radio
- ✓ Checkbox
- ✓ Date

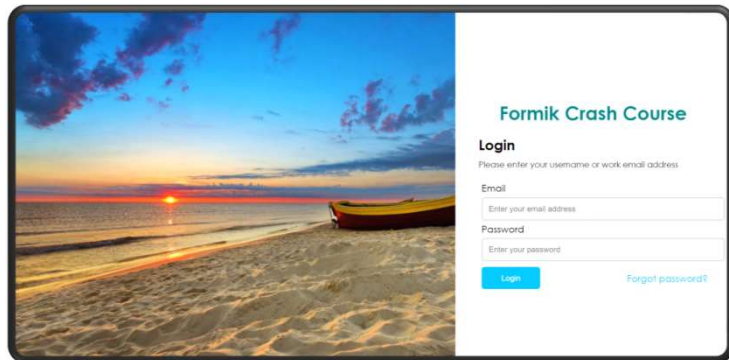


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Formik Practical Forms

- Login Page
- Registration Page
- Enrollment Page
- Formik with Third Party Library (Material UI)



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Formik with Third party libraries

- We can bind formik with any third party libraries listed below.
- ✓ **Ant Design**
- ✓ **Fabric**
- ✓ **Material UI**
- ✓ **Reactstrap**
- ✓ **Semantic UI 2.0**
- ✓ **Semantic UI**



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Formik with Material UI

- **Install formik with material ui: (Including date pickers)**
- `npm i formik-material-ui @material-ui/core formik-material-ui-pickers @date-io/date-fns@1.x date-fns`
- **Example:**
- `import {TextField} from 'formik-material-ui';`
- `<Field component={TextField} name="email" label="Email"/>`
- Reference: <https://stackworx.github.io/formik-material-ui/>



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Formik with Material UI

➤ Date Pickers:

- import { TimePicker, DatePicker, DateTimePicker } from 'formik-material-ui-pickers';
- import { MuiPickersUtilsProvider } from '@material-ui/pickers';
- import DateFnsUtils from '@date-io/date-fns';
- `<MuiPickersUtilsProvider utils={DateFnsUtils}>`
 `<Formik>`
 `<Form>`
 `<Field component={DatePicker} name="date" label="Date" />`
 `</Form>`
 `</Formik>`
`</MuiPickersUtilsProvider>`



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Summary

- ✓ We have learned how to create reusable components with Formik and how to use them for all kinds of form elements.
- ✓ We have designed practical forms like Login Form, Registration Form and Enrollment Form with all the validations.
- ✓ We have learned how to use UI Libraries with Formik like Material UI for stylish forms in less time.
- ✓ Finally, Formik will save a lot of time for designing forms in real world applications. It is easy to create, easy to change and easy manage.



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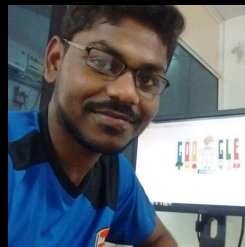
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