



Conceive Design Implement Operate



THỰC HỌC – THỰC NGHIỆP

LẬP TRÌNH FRONT-END FRAMEWORK 2

REDUX-FORM

REST-BASED APP REACT





- Redux-form
- Rest-based app react





PHAN 1 REDUX FORM



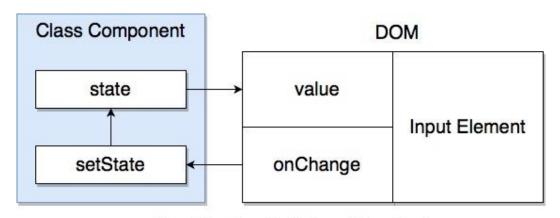


- ☐ Redux-form là thư viện hỗ trợ quản lý react form state
- ☐ Cài đặt

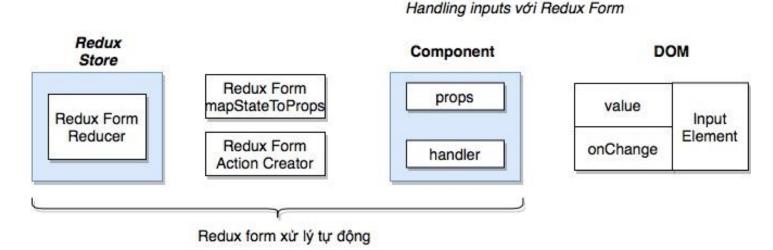
```
→ client git:(210-userid) X npm install --save redux-form
+ redux-form@7.4.2
added 3 packages from 4 contributors and audited 35724 packages in 10.155s
found 0 vulnerabilities

→ client git:(210-userid) X npm start

> client@0.1.0 start /Users/stephengrider/workspace/ReduxWorkspaceV2/prod/s
treams/client
> react-scripts start
```



Handling inputs không dùng Redux

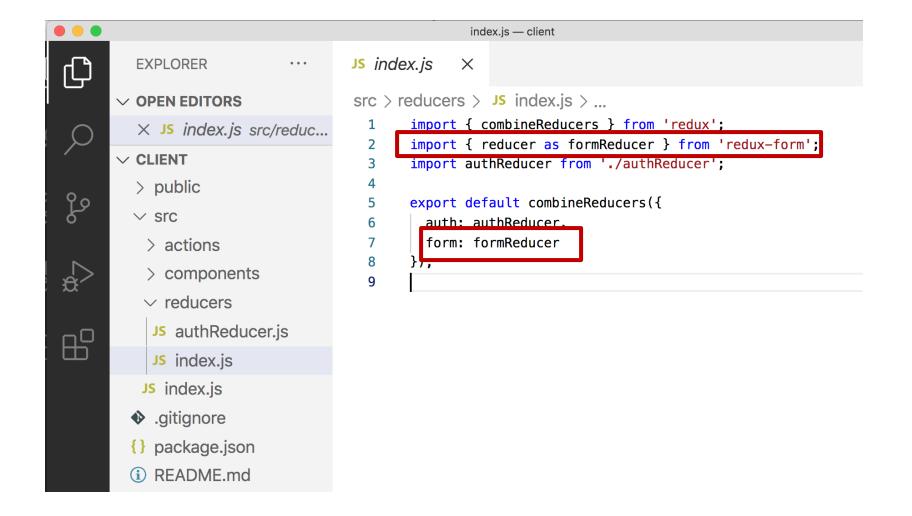


formReducer: function chịu trách nhiệm cập nhật redux store dựa trên những thay đổi từ app



KÉT NŐI REDUX-FORM

Import {reducer as formReducer } from 'redux-form'



```
JS StreamCreate.js •
      import React from 'react';
      import { Field, reduxForm } from 'redux-form';
      class StreamCreate extends React.Component {
   5
        render() {
   6
           return (
             <form>
               <Field name="title" />
   8
   9
               <Field name="description" />
  10
             </form>
  11
  12
  13
  14
      export default reduxForm({
  15
  16
        form: 'streamCreate'
       })(StreamCreate);
  17
```



- □Component <Field />
- <Field name="inputName"
 component="input" type="text" />
- Kết nối input đến store
- Tạo phần tử HTML **<input />** với type text
- Truyền vào props: **value**, **onChange**, **onBlur**,....giúp theo dõi và cập nhật state
- Các loại input khác trong <Field />: https://reduxform.com/7.3.0/docs/api/field.md/#usage



Xử LÝ SỰ KIỆN TỰ ĐỘNG

FPT POLYTECHNIC

```
▶ () top
                                                        Default levels ▼
  b.me/react-devtools
                                                          main.chunk.js:407
  ▼ {input: {...}, meta: {...}} 📵
    ▼ input:
       name: "title"
      ▶ onBlur: f (event)
      ▶ onChange: f (event)
      ▶ onDragStart: f (event)
      ▶ onDrop: f (event)
      ▶ onFocus: f (event)
       value: ""
      proto_: Object
    ▶ meta: {active: false, asyncValidating: false, autofilled: false, dirty...
    ▶ _ proto_: Object
```

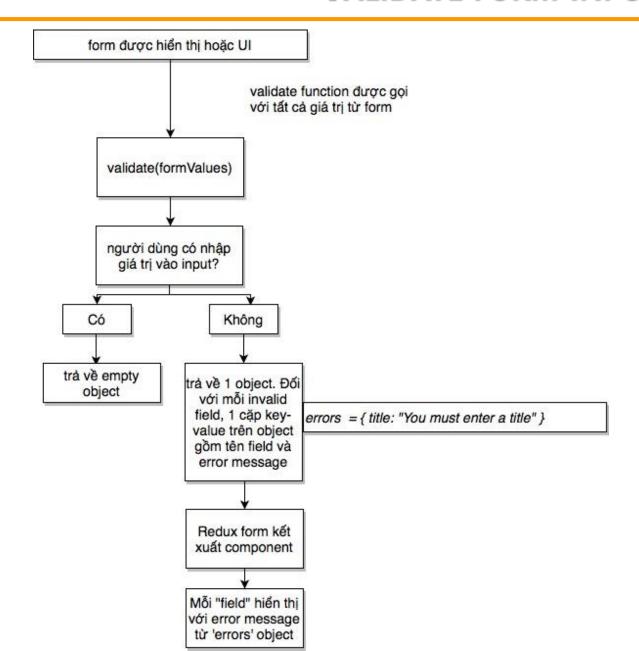


Xử LÝ SỰ KIỆN SUBMIT

```
onSubmit(formValues) {
                                               Dùng arrow function
 console.log(formValues);
render() {
  return (
   <form
     onSubmit={this.props.handleSubmit(this.onSubmit)}
     className="ui form"
     <Field name="title" component={this.renderInput} label="Enter Title" />
     <Field
        name="description"
        component={this.renderInput}
        label="Enter Description"
      />
     <button className="ui button primary">Submit</button>
    </form>
```



VALIDATE FORM INPUT



VALIDATE FORM INPUT

```
const validate = formValues => {
  const errors = {};
  if (!formValues.title) {
    errors.title = 'You must enter a title';
  if (!formValues.description) {
   errors.description = 'You must enter a description';
  return errors;
};
export default reduxForm({
  form: 'streamCreate',
 validate
})(StreamCreate);
```

HIểN THỊ VALIDATION MESSAGES



STREAMS APP



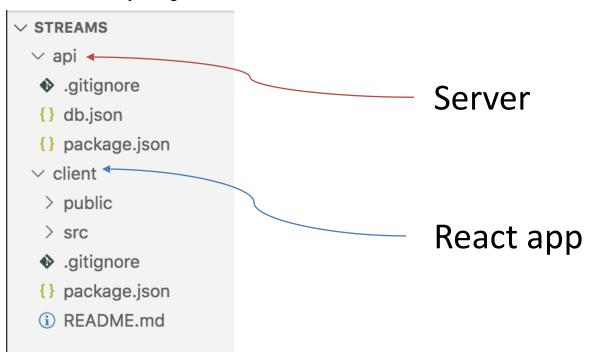
PHAN 2 REST-BASED APP REACT





Structure

Streams project



THIẾT LẬP API SERVER

```
api git:(223-highlighting) x ls
package.json
→ api git:(223-highlighting) x npm install --save json-server
npm notice created a lockfile as package-lock.json. You should commit this
file.
npm WARN api@1.0.0 No description
npm WARN api@1.0.0 No repository field.
+ json-server@0.14.0
added 223 packages from 121 contributors and audited 444 packages in 12.831
found 0 vulnerabilities
→ api git:(223-highlighting) 🗶 📗
```



THIẾT LẬP API SERVER

□ Db.json

```
Code File Edit Selection View Go Debug Terminal Window Help

EXPLORER

API DECOMPTIONS

I Streams : []

Node_modules

Debug Terminal Window Help

db.json ×

"streams": []

Package-lock.json

Package.json

Package.json
```



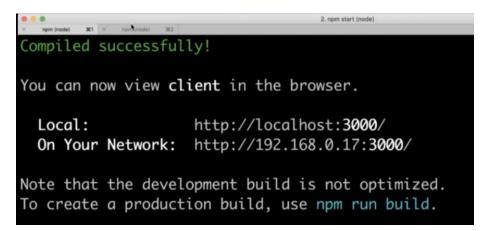
Package.json

```
package.json - api
 EXPLORER
                () db.json
                           () package.json •
4 OPEN EDITO ... 1 UNSAVED
  () db.json
                          "name": "api",
 () package.json
4 API
                          "version": "1.0.0",
 node_modules
() db.json
                          "description": "",
() package-lock.json
                     5
                          "main": "index.js",
() package.json
                          "scripts": {
                          "start": "json-server -p 3001 p-w db.json"
                           "author": "",
                   10
                          "license": "ISC",
                          "dependencies": {
                   11
                   12
                           "json-server": "^0.14.0"
                   13
                   14
                   15
```

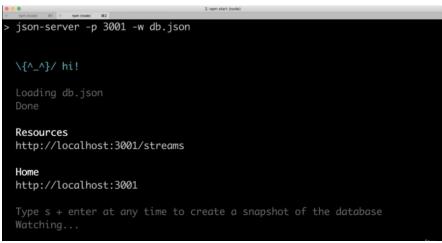


CÀI ĐẶT API SERVER

React app



Server





Action	Method	Route	Response
List all records	GET	/streams	Array of records
Get one particular record	GET	/streams/:id	Single record
Create record	POST	/streams	Single record
Update a record	PUT	/streams/:id	Single record
Delete a record	DELETE	/streams/:id	Nothing



■Tạo record

■Tạo record với id



Records

```
export const fetchStreams = () => async dispatch => {
  const response = await streams.get('/streams');
  dispatch({ type: FETCH_STREAMS, payload: response.data });
};
```

Record với id

```
export const fetchStream = id => async dispatch => {
  const response = await streams.get(`/streams/${id}`);
  dispatch({ type: FETCH_STREAM, payload: response.data });
};
```

ACTION – EDIT & DELETE

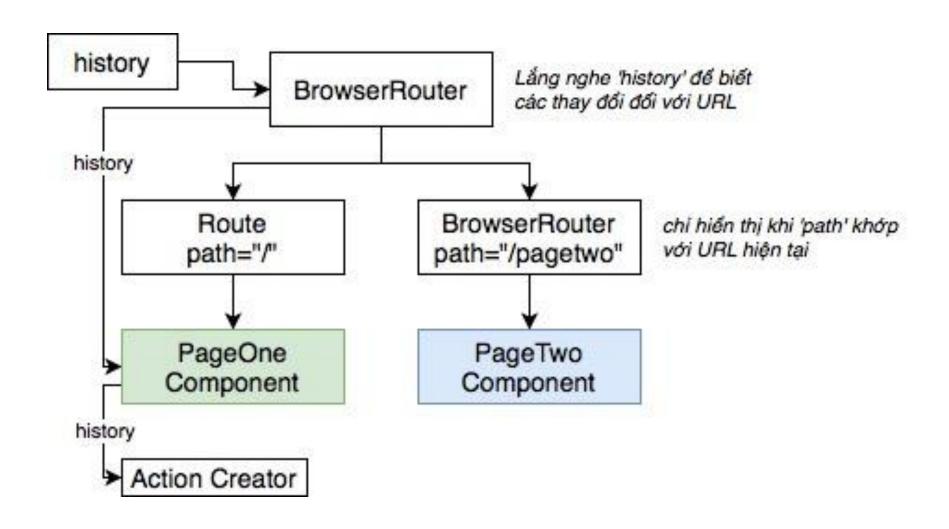
■ Edit

```
export const editStream = (id, formValues) => async dispatch => {
  const response = await streams.put(`/streams/${id}`, formValues);
  dispatch({ type: EDIT_STREAM, payload: response.data });
};
```

Delete

```
export const deleteStream = id => async dispatch => {
  await streams.delete(`/streams/${id}`);
  dispatch({ type: DELETE_STREAM, payload: id });
};
```



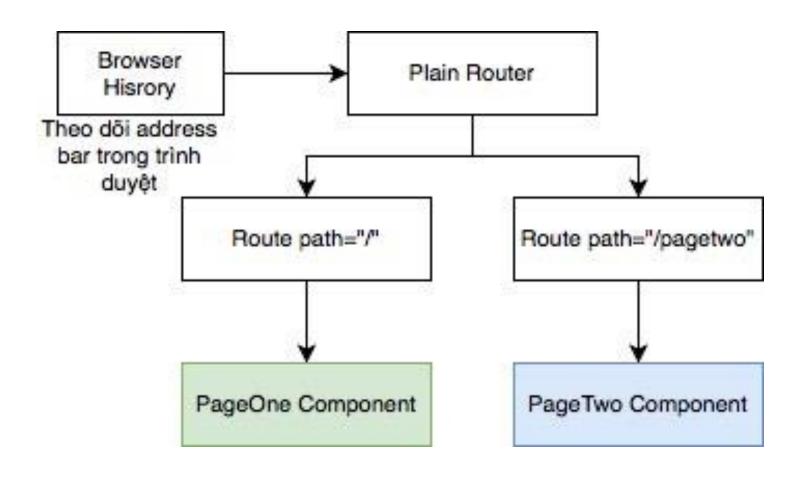






- ☐ Tham khảo:
 - https://reactrouter.com/web/api/history
- History object có những thuộc tính và phương thức quan trọng sau
 - Location
 - Push()
 - Replace()
 - **❖** Go()
 - goBac()

BROWSER HISTOTY









- ✓ Redux-form
- ✓ Rest-based app react



