

# **MUC TIÊU:**

Kết thúc bài thực hành này bạn có khả năng

- ✓ Redux form
- ✓ Rest-based app react

# **NỘI DUNG**

- Sử dụng project streams của Lab6 để thực hiện tiếp tục bài Lab7

#### Bài 1: Redux form

- Cài đặt redux-form
- Kết nối redux-form

```
client > src > reducers > JS index.js > ...

import { combineReducers } from 'redux';
import { reducer as formReducer } from 'redux-form';

mport authReducer from './authReducer';

export default combineReducers({
    auth: authReducer,
    form: formReducer
}
```

- Tạo form và xử lý sự kiện

```
class StreamCreate extends React.Component {
 renderInput({ input, label }) {
   return (
     <div className="field">
       <label>{label}</label>
       <input {...input} />
     </div>
   );
 onSubmit(formValues) {
   console.log(formValues);
  render() {
   return (
            bmit={this.props.handleSubmit(this.onSubmit)}
                                                          abel="Enter Title" />
       <Field name="title"
                           component={this.renderInput}
         component={this.renderInput}
          label="Enter Description
       <button className="ui button primary">Submit</button>
     </form>
```



Form validate

```
client > src > components > streams > JS StreamCreate.js > ...
47
       const validate = formValues => {
48
         const errors = {};
49
 50
         if (!formValues.title) {
 51
           errors.title = 'You must enter a title';
         }
 52
53
         if (!formValues.description) {
 54
 55
           errors.description = 'You must enter a description';
 56
 57
 58
        return errors;
 59
       };
60
 61
       export default reduxForm({
 62
         form: 'streamCreate',
 63
         validate
 64
       })(StreamCreate);
```

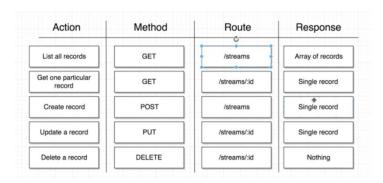
#### Show error

```
client > src > components > streams > JS StreamCreate.js > [∅] default
       import React from 'react';
 2
       import { Field, reduxForm } from 'redux-form';
 3
       class StreamCreate extends React.Component {
 5
         renderError({ error, touched }) {
 6
           if (touched && error) {
 7
             return (
               <div className="ui error message">
 8
 9
                <div className="header">{error}</div>
10
               </div>
             );
11
 12
13
14
15
         renderInput = ({ input, label, meta }) => {
16
           const className = `field ${meta.error && meta.touched ? 'error' : ''}`;
17
           return (
18
             <div className={className}>
19
               <label>{label}</label>
20
               <input {...input} autoComplete="off" />
21
              {this.renderError(meta)}
22
             </div>
23
           );
24
         };
```



## Bài 2: Rest-based app react

- Tạo api server trên streams project với cấu trúc như hình sau

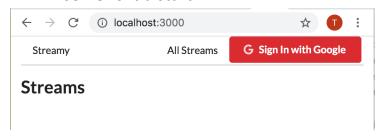


Cấu trúc project



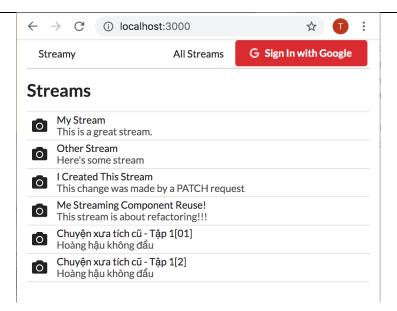
### - Mô tả

API server chua start

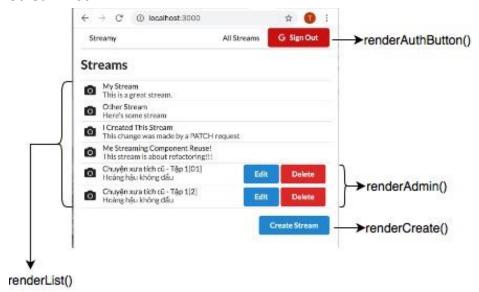


API server start

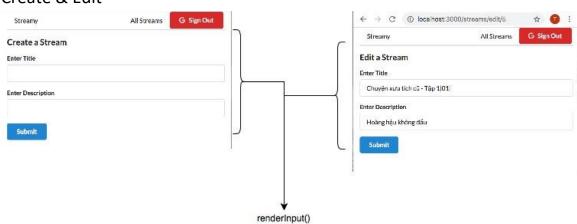




#### StreamList

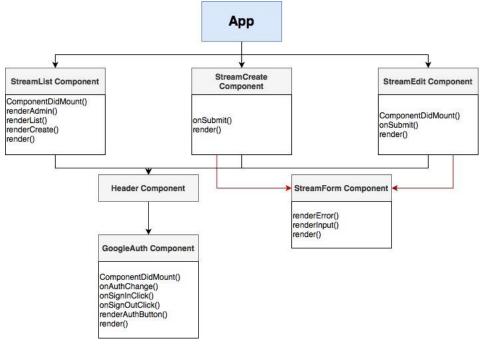


### Create & Edit

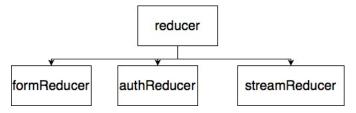




• Cấu trúc Components



• Cấu trúc reducer



```
client > src > reducers > JS authReducer.js > ...
      import { SIGN_IN, SIGN_OUT } from '../actions/types';
 2
       const INTIAL_STATE = {
 4
        isSignedIn: null,
 5
        userId: null
 6
 7
       export default (state = INTIAL_STATE, action) => {
 8
 9
        switch (action.type) {
10
          case SIGN_IN:
            return { ...state, isSignedIn: true, userId: action.payload };
11
          case SIGN_OUT:
12
           return { ...state, isSignedIn: false, userId: null };
13
14
          default:
15
             return state;
        }
16
17
       };
```



```
client > src > reducers > JS streamReducer.js > \dots
 1
       import _ from 'lodash';
 2
       import {
 3
        FETCH_STREAM,
 4
         FETCH_STREAMS,
 5
         CREATE_STREAM,
 6
         EDIT_STREAM,
 7
        DELETE_STREAM
 8
       } from '../actions/types';
 9
       export default (state = {}, action) => {
10
11
        switch (action.type) {
12
           case FETCH_STREAMS:
           return { ...state, ..._.mapKeys(action.payload, 'id') };
13
14
          case FETCH_STREAM:
15
           return { ...state, [action.payload.id]: action.payload };
16
           case CREATE_STREAM:
17
           return { ...state, [action.payload.id]: action.payload };
18
           case EDIT_STREAM:
19
           return { ...state, [action.payload.id]: action.payload };
20
           case DELETE_STREAM:
21
           return _.omit(state, action.payload);
22
           default:
23
           return state;
24
25
      };
client > src > reducers > Js index.js > ...
       import { combineReducers } from 'redux';
       import { reducer as formReducer } from 'redux-form';
 2
       import authReducer from './authReducer';
       import streamReducer from './streamReducer';
       export default combineReducers({
 7
        auth: authReducer,
 8
         form: formReducer,
 9
         streams: streamReducer
10
       });
```

## - Hướng dẫn

Apis

```
client > src > apis > Js streams.js > ...

import axios from 'axios';

export default axios.create({
 baseURL: 'http://localhost:3001'
 });
```



#### Action

```
client > src > actions > JS types.js > ...
        export const SIGN_IN = 'SIGN_IN';
        export const SIGN_OUT = 'SIGN_OUT';
  2
        export const CREATE_STREAM = 'CREATE_STREAM';
  3
        export const FETCH_STREAMS = 'FETCH_STREAMS';
        export const FETCH_STREAM = 'FETCH_STREAM';
  6
        export const DELETE_STREAM = 'DELETE_STREAM';
        export const EDIT_STREAM = 'EDIT_STREAM';
client > src > actions > Js index.js > ...
       import streams from '../apis/streams';
       import history from '../history';
 3
      import {
 4
        SIGN_IN,
        SIGN_OUT,
        CREATE_STREAM,
 6
        FETCH_STREAMS,
        FETCH_STREAM,
 8
        DELETE_STREAM,
 9
10
        EDIT_STREAM
11
      } from './types';
12
13
      export const signIn = userId => {
14
         return {
15
          type: SIGN_IN,
16
          payload: userId
17
        }:
18
      };
19
20
      export const signOut = () => {
21
        return {
22
          type: SIGN_OUT
        };
23
24
25
      export const createStream = formValues => async (dispatch, getState) => {
26
        const { userId } = getState().auth;
27
28
        const response = await streams.post('/streams', { ...formValues, userId });
29
30
        dispatch({ type: CREATE_STREAM, payload: response.data });
31
        history.push('/');
32
      };
33
34
      export const fetchStreams = () => async dispatch => {
35
        const response = await streams.get('/streams');
36
37
        dispatch({ type: FETCH_STREAMS, payload: response.data });
38
      };
39
40
       export const fetchStream = id => async dispatch => {
41
        const response = await streams.get(`/streams/${id}`);
42
        dispatch({ type: FETCH_STREAM, payload: response.data });
43
44
45
       export const editStream = (id, formValues) => async dispatch => {
46
47
         const response = await streams.patch(`/streams/${id}`, formValues);
48
         dispatch({ type: EDIT_STREAM, payload: response.data });
49
50
        history.push('/');
51
52
53
       export const deleteStream = id => async dispatch => {
        await streams.delete(`/streams/${id}`);
55
56
        dispatch({ type: DELETE_STREAM, payload: id });
57
 58
```



### Component

```
client > src > components > JS GoogleAuth.js > ...
 1 > import React from 'react'; --
      class GoogleAuth extends React.Component {
 5
 6
      componentDidMount() {--
21
22
23 >
        onAuthChange = isSignedIn => {--
29
30
        onSignInClick = () => {--
31 >
33
        };
34
35 >
        onSignOutClick = () \Rightarrow {--
37
38
39
        renderAuthButton() {
40
         if (this.props.isSignedIn === null) {
41
           return null;
          } else if (this.props.isSignedIn) {
42
43
             <button onClick={this.onSignOutClick} className="ui red google button">
45
               <i className="google icon" />
               Sign Out
47
             </button>
49
          } else {
50
            return (
51
             <button onClick={this.onSignInClick} className="ui red google button">
52
               <i className="google icon" />
53
              Sign In with Google
54
             </button>
55
           );
56
57
58
59
        render() {
          return <div>{this.renderAuthButton()}</div>;
60
61
62
63
      const mapStateToProps = state => {
64
65
      return { isSignedIn: state.auth.isSignedIn };
66
67
68
      export default connect(
      mapStateToProps,
70
        { signIn, signOut }
      )(GoogleAuth);
client > src > components > JS Header.js > ...
  1 > import React from 'react'; --
  4
  5
        const Header = () => {
  6
  7
             <div className="ui secondary pointing menu">
  8
              <Link to="/" className="item">
  9
               Streamy
 10
               </Link>
 11
               <div className="right menu">
 12
                 <Link to="/" className="item">
                  All Streams
 13
 14
                 </Link>
 15
                 <GoogleAuth />
               </div>
 16
 17
             </div>
 18
           );
 19
        };
 20
 21
        export default Header;
```



```
client > src > components > streams > JS StreamCreate.js > ...
   1 > import React from 'react'; --
   5
   6
         class StreamCreate extends React.Component {
   7
           onSubmit = formValues => {
   8
             this.props.createStream(formValues);
   9
           };
  10
  11
           render() {
 12
             return (
 13
               <div>
  14
                  <h3>Create a Stream</h3>
 15
                  <StreamForm onSubmit={this.onSubmit} />
               </div>
  16
  17
             );
  18
  19
  20
  21
         export default connect(
 22
          null,
 23
          { createStream }
 24
         )(StreamCreate);
client > src > components > streams > JS StreamEdit.js > ...
 1 > import _ from 'lodash'; --
      class StreamEdit extends React.Component {
 8
        componentDidMount() {
 9
          this.props.fetchStream(this.props.match.params.id);
10
11
12
        onSubmit = formValues => {
         this.props.editStream(this.props.match.params.id, formValues);
13
14
15
        render() {
16
17
         if (!this.props.stream) {
18
          return <div>Loading...</div>;
19
20
          return (
21
22
           <div>
23
             <h3>Edit a Stream</h3>
24
             <StreamForm
               initialValues={_.pick(this.props.stream, 'title', 'description')}
25
26
              onSubmit={this.onSubmit}
27
           </div>
28
29
          );
       }
30
31
32
      const mapStateToProps = (state, ownProps) => {
34
       return { stream: state.streams[ownProps.match.params.id] };
35
37
      export default connect(
38
       mapStateToProps,
39
       { fetchStream, editStream }
      )(StreamEdit);
```



```
client > src > components > streams > JS StreamForm.js > \dots
      import React from 'react';
       import { Field, reduxForm } from 'redux-form';
 3
      class StreamForm extends React.Component {
 5
        renderError({ error, touched }) {
          if (touched && error) {
 6
 8
              <div className="ui error message">
               <div className="header">{error}</div>
 9
10
              </div>
11
            );
          }
12
13
14
15
         renderInput = ({ input, label, meta }) => {
          const className = `field ${meta.error && meta.touched ? 'error' : ''}`;
16
17
          return (
            <div className={className}>
18
19
              <label>{label}</label>
              <input {...input} autoComplete="off" />
20
              {this.renderError(meta)}
21
22
            </div>
23
          );
        };
24
25
26
        onSubmit = formValues \Longrightarrow {
27
          this.props.onSubmit(formValues);
28
29
30
    > render() {--
45
        }
46
47
    > const validate = formValues => {--
48
60
      };
61
62
      export default reduxForm({
63
        form: 'streamForm',
        validate
64
      })(StreamForm);
65
66
```



```
client > src > components > streams > JS StreamList.js > 😫 StreamList
 1 > import React from 'react'; --
 6
       class StreamList extends React.Component {
        componentDidMount() {
 8
          this.props.fetchStreams();
 9
10
11
        renderAdmin(stream) {
12
          if (stream.userId === this.props.currentUserId) {
13
             return (
               <div className="right floated content">
14
                <Link to={`/streams/edit/${stream.id}`} className="ui button primary">
15
16
                  Edit
17
                 </Link>
18
                <button className="ui button negative">Delete</button>
19
20
          }
21
22
23
        renderList() {
24
25
           return this.props.streams.map(stream => {
26
             return (
27
               <div className="item" key={stream.id}>
28
                {this.renderAdmin(stream)}
29
                 <i className="large middle aligned icon camera" />
30
                 <div className="content">
31
                  {stream.title}
32
                  <div className="description">{stream.description}</div>
33
                </div>
34
              </div>
35
            ):
36
          });
37
38
39
         renderCreate() {
40
           if (this.props.isSignedIn) {
41
42
               <div style={{ textAlign: 'right' }}>
                <Link to="/streams/new" className="ui button primary">
43
44
                 Create Stream
                </Link>
45
46
              </div>
47
            );
48
          }
49
50
51
        render() {
52
53
            <div>
54
              <h2>Streams</h2>
55
              <div className="ui celled list">{this.renderList()}</div>
56
              {this.renderCreate()}
57
            </div>
58
          );
59
60
61
62
      const mapStateToProps = state => {
63
        return {
64
          streams: Object.values(state.streams).
65
          currentUserId: state.auth.userId,
66
          \verb|isSignedIn: state.auth.isSignedIn|\\
67
        };
68
      };
69
70
      export default connect(
71
        mapStateToProps,
72
         { fetchStreams }
73
      )(StreamList);
```



### Bài 3: Browser history

```
client > src > components > JS App.js > ...
  1 > import React from 'react'; --
 10
 11
       const App = () => {
 12
          return (
            <div className="ui container">
 13
              <Router history={history}>
 14
              <div>...
 15 >
 23
             </Router>
           </div>
 24
 25
         );
 26
       };
 27
 28
       export default App;
client > src > JS history.js > ...
       import { createBrowserHistory } from 'history';
 2
       export default createBrowserHistory();
 3
```

## \*\*\* Yêu cầu nộp bài:

SV nén file (*hoặc share thư mục google drive*) bao gồm các yêu cầu đã thực hiện trên, nộp LMS đúng thời gian quy định của giảng viên. KHÔNG NỘP BÀI COI NHƯ KHÔNG CÓ ĐIỂM.

--- Hết ---