



0x07. React Redux action creator+normalizr

Front-end JavaScript ES6 React

Weight: 1

Manual QA review was done on Oct 12, 2024 11:15 AM

In a nutshell... · Manual QA review: 0.0/54 mandatory

· Altogether: 0.0% Mandatory: 0.0%

· Optional: no optional tasks

Overall comment:

Project was failed automatically.



Resources

Read or watch:

- Normalizr
- Normalizing State Shape
- · Redux Getting started and core concepts
- Redux Actions
- Async Actions
- Writing tests for Redux

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone, without the help of Google:

- · Normalizr's purpose and how to use it
- · schemas and normalization of nested JSON
- · core concepts of Redux
- Redux actions
- Redux action creators
- · async actions in Redux
- how to write tests for Redux

Requirements

- Allowed editors: vi , vim , emacs , Visual Studio Code
- · All your files should end with a new line
- All your files will be interpreted/compiled on Ubuntu 18.04 LTS using node 12.x.x and npm 6.x.x
- A README.md file, at the root of the folder of the project, is mandatory
- Push all of your files, including package.json and .babelrc
- · All of your functions must be exported

Provided files notifications.json Click to show/hide contents of notifications.json login-success.json Click to show/hide contents of login-success.json

Tasks

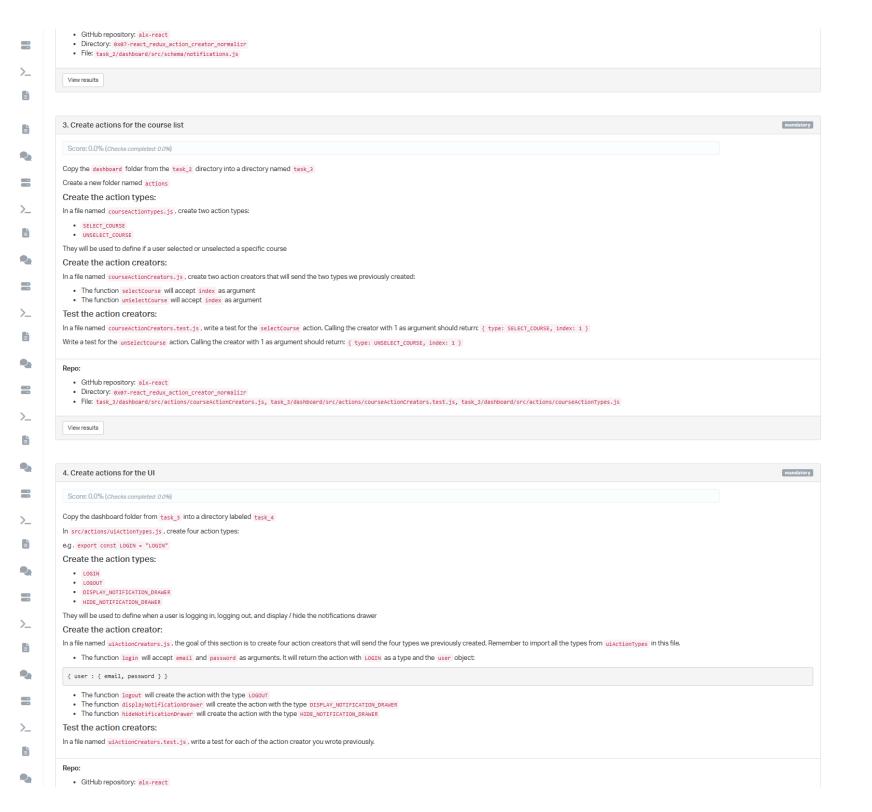
 View results

0. Read data from a JSON Score: 0.0% (Checks completed: 0.0%) Reuse the latest dashboard project you worked on in the React course exect_state For this task, place notifications.json into the root of the project directory and use the data inside for the next step. Create a new notifications.js file in a schema folder: • Import the JSON data from notifications.json and give it a name. Try import * as [variable name] from [path to notifications.json] · Create a function named getAllNotificationsByUser that accepts userId as an argument • The function should return a list containing all the context objects from the notifications.json data when the author id is the same as the userId In the same schema directory, create a notifications.test.js file: • Add a test that uses the id 5debd764a7c57c7839d722e9 and verifies that the following data is returned: guid: "2d8e40be-1c78-4de0-afc9-fcc147afd4d2", isRead: true, type: "urgent", value: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt." guid: "280913fe-38dd-4abd-8ab6-acdb4105f922", isRead: false, type: "urgent", value: "Non diam phasellus vestibulum lorem sed risus ultricies. Tellus mauris a diam maecenas sed" Tips: · You can easily import JSON data using Babel . When writing your test, you can use the arrayContaining method from Jest to easily compare what the function returns and what you are expecting Requirements: · You can use any loop function to go through the array All the tests in the project should pass Repo: GitHub repository: alx-react • Directory: 0x07-react_redux_action_creator_normalizr • File: task_0/dashboard/src/schema/notifications.js, task_0/dashboard/src/schema/notifications.test.js

1. Normalize a nested JSON Score: 0.0% (Checks completed: 0.0%) Copy over dashboard from the previous task into a task_1 directory at the root of the project Modify src/schema/notifications.js to set up a schema using Normalizr You're going to use schema. Entity to create a 3 of entities. The first one is an example the task will provide for you.

const user = new schema.Entity("users") . Create a message entity in a variable called message whose key is messages and set the idAttribute to the string guid in the options · Create a notification entity in a variable called notification whose key is notifications and set the definition of the entity as so: o author: user o context: message Add a test in schema/notifications.test.js to verify that your normalized data has a correct result array. It should contain: "5debd76480edafc8af244228" "5debd764507712e7a1307303" "5debd76444dd4dafea89d53b" "5debd76485ee4dfd1284f97b" "5debd7644e561e022d66e61a" "5debd7644aaed86c97bf9d5e" "5debd76413f0d5e5429c28a0" "5dehd7642e815cd350407777" "5debd764c1127bc5a490a4d0" "5debd7646ef31e0861ec1cab" "5debd764a4f11eabef05a81d" "5debd764af0fdd1fc815ad9b" "5dehd76468ch5h277fd125f4" "5debd764de9fa684468cdc0b" Add a test to verify that your normalized data has a correct users entity. Test to access the user with the id 5debd764a7c57c7839d722e9. It should return: age: 25, email: "poole.sanders@holberton.nz", id: "5debd764a7c57c7839d722e9", name: { first: "Poole", last: "Sanders" }, picture: "http://placehold.it/32x32" Add a test to verify that your normalized data has a correct message entity. Test to access the message with the guid efb6c485-00f7-4fdf-97cc-5e12d14d6c41. It should return: guid: "efb6c485-00f7-4fdf-97cc-5e12d14d6c41", isRead: false, type: "default", value: "Cursus risus at ultrices mi." Add a test to verify that your normalized data has a correct notifications entity. Test to access the notification with the id 5debd7642e815cd35e4e7777 . It should return: author: "5debd764f8452ef92346c772", context: "3068c575-d619-40af-bf12-decelee18dd3", id: "5debd7642e815cd350407777" Tips: · The expected goal is to obtain a very easy to use dataset . If you are having undefined issues, look at idattribute from the Normalizr documentation Requirements: You must export the list of notifications using a Normalize's normalize · All the tests in the project should pass Repo: • GitHub repository: alx-react • Directory: 0x07-react_redux_action_creator_normalizr • File: task_1/dashboard/src/schema/notifications.js, task_1/dashboard/src/schema/notifications.test.js View results 2. Filter a normalized Schema Score; 0.0% (Checks completed: 0.0%) Copy the contents of dashboard from the task_1 directory into a task_2 directory at the root of the project Modify the function getAllNotificationsByUser to use the normalized dataset Requirements: · You should only use one loop at this point · You should not use Object.keys . You should not have to modify the test, and the test should pass correctly · All the tests in the project should pass

Repo:



• Directory: 0x07-react_redux_action_creator_normalizr
• File: task_4/dashboard/src/actions/uiActiontypes.js, task_4/dashboard/src/actions/uiActioncreators.js, task_4/dashboard/src/actions/uiActioncreators.test.js

View results

${\bf 5.}\, {\bf Create}\, {\bf actions}\, {\bf for}\, {\bf the}\, {\bf notification}\, {\bf list}$

latory

Score: 0.0% (Checks completed: 0.0%)

Copy dashboard from the task_4 directory into task_5

Create the action types

In src/actions/notificationActionTypes.js, create two action types:

- MARK_AS_READ
- SET_TYPE_FILTER

Create the filter states

 $In \ {\tt src/actions/notificationActionTypes.js}\ , create a constant named \ {\tt NotificationTypeFilters}\ , that will contain the two filter states:$

- DEFAULT
- URGENT

They will be used when the user interacts with the notification drawer

Create the action creator

Import the action types you just created in src/actions/notificationActionTypes.js

In a file named notificationActionCreators.js, create two action creators that will send the two action types we previously created:

- · The function markAsAread will accept index as argument
- The function setNotificationFilter will accept filter as argument

Test the action creators

Import the action types, NotificationTypeFilters, and the action creators into src/actions/notificationActionCreators.test.js

In this file, write a test for the markAsAread action. Calling the creator with 1 as an argument should return:

```
{
   type: MARK_AS_READ,
   index: 1
}
```

Write a test for the setNotificationFilter action. Calling the creator with one of the filters from NotificationTypeFilters as an argument should return:

```
{
  type: SET_TYPE_FILTER,
  filter: "DEFAULT"
}
```

Repo:

- GitHub repository: alx-react
- Directory: 0x07-react_redux_action_creator_normalizr
- File: task_5/dashboard/src/actions/notificationActionTypes.js, task_5/dashboard/src/actions/notificationActionCreators.js, task_5/dashboard/src/actions/notificationActionCreators.

View results

6. Bound the actions

andatory

Score: 0.0% (Checks completed: 0.0%)

Modify the Course actions creators:

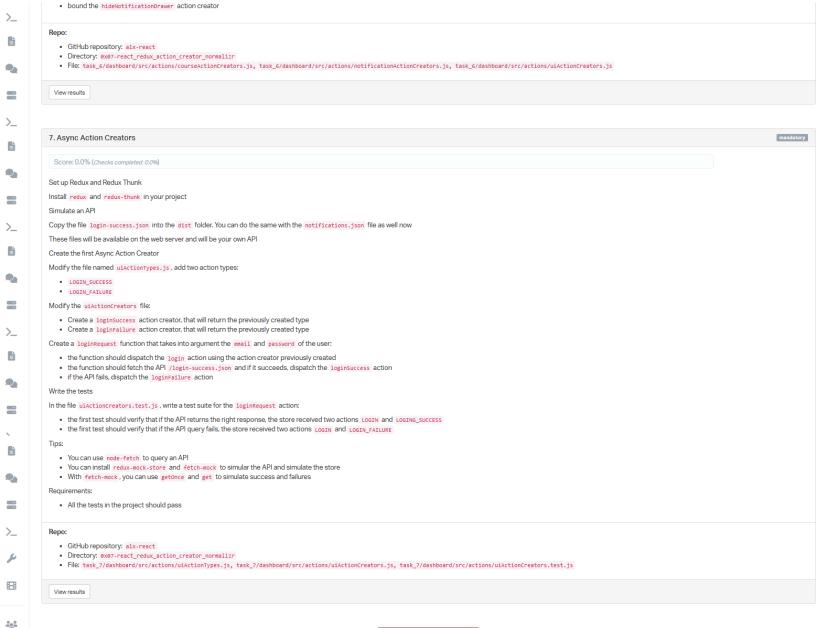
- bound the selectCourse action creator
- bound the unselectCourse action creator

Modify the Notification actions creators:

- · bound the markAsAread action creator
- bound the setNotificationFilter action creator

Modify the UI actions creators:

- bound the login action creator
- bound the logout action creator
- bound the displayNotificationDrawer action creator



Ready for a new review