React Task 3 - State management, Redux

This is the third part of the application.

In this assignment, you should continue to work on your project with a slight modification.

This module is designed to teach how to work with state management in React and what is Redux.

Prerequisite:

Firstly, you need to install the Redux and React-redux modules in your project using npm:

- 1. Go to your project directory
- 2. Install redux and react-redux

```
npm i redux react-redux --save
```

3. Run your project

```
npm run start
```

Project structure requirements:

- 1. Create new folders for redux where put the code for redux src/store.
- 2. Create new file services.js.
- 3. Folder structure src/store:

```
|
|-- servisces.js
|
|__ ...
```

3. Store should have model where user, authors and courses should have own reducer:

```
const store = {
        user: {
            isAuth: boolean, // default value - false. After success login -
true
            name: string, // default value - empty string. After success
login - name of user
            email: string, // default value - empty string. After success
login - email of user
            token: string, // default value - empty string or token value
from localStorage. After success login - value from API /login response. See
Swagger.
        },
        courses: [], // list of courses. Default value - empty array. After
success getting courses - value from API /courses/all response. See Swagger.
        authors: [] // list of authors. Default value - empty array. After
success getting authors - value from API /authors/all response. See Swagger.
}
```

4. APIs from SWAGGER for Module 3:

- courses/all[GET];
- authors/all[GET].

Criteria (15 points max)

APIs

- [2 points] All functionality with back-end should be in services.js.

 (Create api service for each endpoint that you use and call methods or functions from service into your components.)
- [2 points] Get courses from back-end. See API /courses/all in the SWAGGER. Save courses list to the store.
- [2 points] Get authors from back-end. See API /authors/all in the SWAGGER. Save authors list to the store.

Store

[2 points] - Store should have **User** reducer.
 User reducer manage data with user's info and should have next model:

```
const userInitialState = {
    isAuth: boolean, // default value - false. After success login - true
    name: string, // default value - empty string. After success login -
name of user
    email: string, // default value - empty string. After success login -
email of user
    token: string, // default value - empty string or token value from
localStorage.
    // After success login - value from API /login response. See Swagger.
};
```

User reducer has logic:

- After success login is Auth property have value true, save token, email and name.
- After logout isAuth property have value false, token, email and name have value as empty string.

Clean localStorage.

• [1 point] - Store should have **Courses** reducer.

Courses reducer manage data with courses list and should have next model:

```
const coursesInitialState = [] // default value - empty array. After
success getting courses from API - array of courses.
```

Courses reducer has logic:

- Save new course.
- o Delete course.
- Update course.
- Get courses. Save courses to **store** after getting them from API. See Swagger /courses/all.
- [1 point] Store should have **Authors** reducer.

Authors reducer manage data with authors list and should have next model:

```
const authorsInitialState = [] // default value - empty array. After
success getting authors from API - array of authors.
```

Authors reducer has logic:

- Save a new author.
- Get authors. Save authors to **store** after getting them from API. See Swagger /authors/all.

Courses Component

• [1 point] - Get courses from store and render them into **Courses** component.

CreateCourse component

• [2 points] - After saving course in **CreateCourse** component course should be added to **store**.

CourseCard Component

- [1 point] Add a new button "Delete course" into CourseCard. (CourseCard in COMPONENTS).
- [1 point] After clicking on the Delete course button a selected course should be deleted from **store**.

Please find detailed description of components and functionality in the file COMPONENTS