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# React Task 5 - React tests

This is the last part of the application.

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

This module was designed to teach how to work with tests in React.

## Prerequisite:

Firstly, you need to install the jest and @testing-library/react modules in your project using npm:

- 1. Go to your project directory
- 2. Add command npm run test:nowatch to the **prepublish** script in the package.json file.

Result in the package.json:

```
"prepublish": "npm run eslint:fix && npm run test:nowatch"
```

Result in the app:

If some of your unit tests are failed you will not be able to commit your changes.

3. Install Jest

```
npm i jest --save
```

4. Install @testing-library/react

```
npm install --save-dev @testing-library/react
```

5. Create new folders and .test.js file with tests:

```
src
|
|-- components
| -- Header
| | __ tests
| | | __ header.test.js //file for tests
| | | |
| | __ ...
| |
| -- CourseForm
| | -- tests
| | | __ courseForm.test.js //file for tests (EXTRA TASK)
```

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### 6. Run your tests

```
npm run test
```

Use .test.js extension for files with tests



An error may occur when running tests.

Change jest version in package.json to 26.6.0



When you run your tests (npm run test) they will crash because you have files with a .test.js extension without tests.

This problem will go away when you add tests to these files.

# Criteria (20 points max)

## Add test for **Header**:

• [2 points] - **Header** should have logo and user's name.

#### Add tests for **CourseCard**:

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- [1 point] CourseCard should display title.
- [1 point] **CourseCard** should display description.
- [1 point] CourseCard should display duration in the correct format.
- [1 point] **CourseCard** should display authors list.
- [1 point] **CourseCard** should display created date in the correct format.

#### Add tests for **Courses**:

- [2 points] Courses should display amount of CourseCard equal length of courses array.
- [1 point] **Courses** should display Empty container if courses array length is 0.
- [2 points] **CourseForm** should be showed after a click on a button "Add new course".

## Add test for coursesReducer:

- [1 point] **reducer** should return the initial state.
- [1 point] **reducer** should handle SAVE\_COURSE and returns new state.
- [1 point] reducer should handle GET\_COURSES and returns new state

## Script in the package.json:

• [5 points] - pre-commit hook works correctly:

There is no ability to commit changes if some of unit tests are failed.

### **EXTRA TASK:**

#### Add tests for **CourseForm**:

- **CourseForm** should show authors lists (all and course authors).
- **CourseForm** 'Create author' click button should call dispatch.
- CourseForm 'Add author' button click should add an author to course authors list.
- CourseForm 'Delete author' button click should delete an author from the course list.

Find information about tests writing in the INSTRUCTIONS file