**Week 1**

**React. Components**

Should be done:

1. Create separate branch for this task.
2. Use CRA with template --typescript.
3. Set up eslint and prettier so that project would not build if having errors. Use configs
4. Add React-Router version 6. Add header showing current page, also add pages “About Us”, “404”. If trying to input unknown route into url – application should redirect to “404”.
5. Draw the following on the main page:

* Search Bar.

examples:

<https://studio.uxpincdn.com/studio/wp-content/uploads/2020/09/BlogHeader_SearchBar_1200x600.png>

<https://www.sliderrevolution.com/wp-content/uploads/2021/02/cssheader1.jpg>

Input value should be saved to LocalStorage during component’s unmount. While initializing this component look at LocalStorage value and show it.

* Cards. The more details are on the card – the better.

examples:

<https://www.webdesignerdepot.com/cdn-origin/uploads/2017/01/behance.jpg>

<https://www.webdesignerdepot.com/cdn-origin/uploads/2017/01/rightmove.jpg>

<https://www.webdesignerdepot.com/cdn-origin/uploads/2017/01/awwwards.jpg>

**In the situation when the access to life cycles of component is needed or there is a necessity of state – use class components. Using hooks is forbidden at this stage.**

1. Add tests for components. Mock LocalStorage. Add test for one card, as well as tests for the list of all cards. Usage of Testing Library React or Enzyme is allowed, but only one of them. Preferred Testing Library React.

All logical parts should be set into separate components.

**Score**

The task will be assessed by mentor in march. For checking convenience create Pull Request to main(master) branch (**DO NOT MERGE**).

1. Tests – 4 points
2. eslint, prettier – 2 points
3. React App + components and router – 9 points

If one of mentioned above list’s items is not accomplished – grade for the task is 0 points. If there is direct DOM manipulations – 0 points.

**Repository requirements**

* the task is done in **private school repository** How to work with private repository
* in private school’s repository create branch with the name of the task from main branch and work in this (dev) created branch
* the commits history should reflect the process of app creating Commits requirements
* after finishing development it’s necessary to make Pull Request from app’s branch to main branch Pull Request requirements

**Do not merge Pull Request from the development branch to the main branch**

### Theory

* [React. Components. Materials](https://docs.google.com/document/d/1WLWjBiVMjsVADf5FWFYfPObQOrLD1624h5etyafCfr8/edit)
* CRA - [Create a New React App](https://reactjs.org/docs/create-a-new-react-app.html)
* [Components- reactjs.org](https://reactjs.org/docs/components-and-props.html)
* React-router [documentation + tutorial](https://reactrouter.com/docs/en/v6/getting-started/tutorial)
* React-router [video course](https://www.youtube.com/watch?v=0auS9DNTmzE)
* React Testing [Library documentation](https://testing-library.com/docs/react-testing-library/intro/)
* React Testing Library course - [React Testing Library. Полный курс s](https://www.youtube.com/watch?v=n79PMyqcCJ8&t=585s)

### React:

* Rolling Scopes School Lithuania. [React 1](https://www.youtube.com/watch?v=L8CmtfCu9AI)
* Rolling Scopes School Lithuania.[React. Part 2](https://www.youtube.com/watch?v=Rrg4D6AHc5A)
* Rolling Scopes School Lithuania. [React. Part 3](https://www.youtube.com/watch?v=w9MvuGWVvkY)
* Short course react + typescript - [React & TypeScript - Course for Beginners](https://www.youtube.com/watch?v=FJDVKeh7RJI)
* Full tutorial: [Full React Course 2020 - Learn Fundamentals, Hooks, Context API, React Router, Custom Hooks](https://www.youtube.com/watch?v=4UZrsTqkcW4&t=8419s)
* Additionally: [React JS фундаментальный курс от А до Я](https://www.youtube.com/watch?v=GNrdg3PzpJQ)