

Practical Course "Web Technologies"

Exercises 5

This assignment will give you practice in React.

Exercise 5.1.

- a. Install libraries/plugin-ins required by VSC to use React:
 - NodeJS: <https://nodejs.org/en/download/>
 - TypeScript: `npm install -g typescript`
- b. In VSC, create a React-app by
`npx create-react-app ex5`
- c. Test the generated code
`cd ex5`
`npm start`
- d. Delete imports for App.css, logo.svg, and reportWebVitals.js.
- e. Delete the files App.test.js, App.css, logo.svg, reportWebVitals.js, and setupTests.js.

Exercise 5.2.

- a. Formulate the HTML-code for

Simple List

Input area

What needs to be remembered?

Display area

1. Item 1

The HTML-code must consist of

- a main-div
 - a div for the two areas each
 - a `<form>`-element with an `<input type="text">`, and a button
- b. Replace the div returned by function App by the new div.

Exercise 5.3.

- a. Create a file 'itemlist.js' for a new component and add an import to React.
- b. Add a Javascript-function ItemOfList(). Move the li-element of the display area as return of this function.
- c. Add an export statement for this function.
- d. In App.js import the component multiple times.

Exercise 5.4.

- a. Add attributes 'itemtext' and appropriate values to the installation of your ItemOfList-components in App.js.
- b. Modify your ItemOfList-function definition so that it takes props as a parameter. Refer to the attribute of a. in your function via the props.

Exercise 5.5.

Define an array of strings, transform this array into an array of ItemOfList-components each generated with a different value for the itemtext-attribute. Use this new array in your item-list.

Exercise 5.6.

Add an event handler directly on the button-element in the JSX

1. An anonymous function showing an alert.
2. A named function without any parameters showing the alert.
3. A named function with a string as parameter that is displayed by means of an alert.