

React, Components and Routing

General part

- Describe the term Single Page Application (SPA) and why it's relevant for modern web-applications
- Describe the overall principles used in React to create a SPA
- Explain the purpose of Client Side Routing in a SPA
- Explain the basic "building blocks" in react-router
- This exercise provides some "ready to go" start code. Explain what is required to use react-router with a create-react-app project build from scratch

Practical part

Note: You are not supposed to use MobX for this exercise.

In this exercise you should first create two routes, and their corresponding "templates" as sketched below:



Getting Started:

Clone this project, to get the start code for this exercise: <https://github.com/Lars-m/examPreRouterStartCode.git>

Run `npm install`, and investigate the provided code before you continue.

1) Investigate `index.js` and observe how we pass in a facade property via props to the RouterComponent. Add the necessary code to read this in the RouterComponent, and pass it on further "down" to Persons component.

2) Add the necessary changes to the Persons Component to render all names in a table as sketched above.

3) Add a new Component, Details (right side of figure above) and the necessary changes so you can navigate to the component via this link: `persons/details/:id`

4) If not already done, change the table, created in step-2, to provide the required link for each person to navigate into the Details controll.

5)

Create a new Component NewPerson, and the necessary changes to navigate to the component via the "top-menu" as sketched below. Initially you should just add some dummy text in the component to demonstrate that navigation works.



6)

Add a Form and a save-Button to the NewPerson control, so new persons can be added to the `_persons` list (the PersonFacade class include a method; `addPerson(. .)` which you should use for this part).

7) Only do this, if you have used *surge* (or similar) before. Publish your solution to a public URL and demo it from here

How this would be graded:

2-4	<p>To fall into this range you must:</p> <p>Give a <u>minimal to fair</u> performance related to the topics stated in the "General Part"</p> <p>And</p> <p>Have completed, ex 1+2 in the practical part with only a few weaknesses</p>
4-7	<p>To fall into this range you must:</p> <p>Give a <u>fair to good</u> performance related to the topics stated in the "General Part"</p> <p>And</p> <p>Have completed, ex 1+2 in the practical part with none or only minor weaknesses</p> <p>Have completed ex-3+4 with only minor weaknesses</p>
7-10	<p>To fall into this range you must:</p> <p>Give a <u>very good</u> performance related to the topics stated in the "General Part"</p> <p>And</p> <p>Have completed, ex-1 +2 in the practical part with none or only a few minor weaknesses</p> <p>Have completed , ex 3 +4 in the practical part with only minor weaknesses</p> <p>Have completed ex 5 with only minor weaknesses and have started on ex 6</p>
10-12	<p>To fall into this range you must:</p> <p>Give an <u>excellent</u> performance related to the topics stated in the "General Part"</p> <p>And</p> <p>Have completed, ex-1+2 in the practical part with no or only a few minor weaknesses</p> <p>Have completed , all steps in ex-3 +4 in the practical part with only a few minor weaknesses</p> <p>Have completed ex5+6 with only a few minor weaknesses</p> <p>Have demonstrated solution via public URL (step 7)</p>