

程序代写代做 CS编程辅导

COMP6080



Front-End Programming

Tutorial 4

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Exercise: A Simple Form

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Build a simple form that collects an email address and first name from a user.

Valid inputs:



- A valid first name is defined as only lowercase and uppercase letters, between 2 and 20 characters long inclusively.
- A valid email is defined by the regular expression `/^.+@.+\..+$/` (read more on that here).

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Important facts about form state:

- The submit button remains disabled until both a valid first name and valid email are entered. The state change occurs on keyup of either input fields.
- On blur of either input fields, if their value is invalid, the background of the input is turned a light red.
- On focus of either input fields, we remove any error backgrounds.

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Part 1: In Vanilla JS

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Let's first do it using Vanilla JS.

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Part 2: In React

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Let's see how we'd do this in React. There's a useful but simple tutorial on the official docs here. Note that it shows you **class components**, whereas we learn **functional components** in this course. I would recommend going through the **MAIN CONCEPTS** and some of the **HOOKS** sections.

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Controlled Components

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The main idea is to make the React state be the 'single source of truth'. That is, the value is controlled by React, as well as other handlers like `onSubmit` and `onChange`. Really, I'd just read the tutorial.

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Part 3: Formik

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When you're tasked with making a lot of forms, this can get tedious. More complete solutions exist, and the one I use is called Formik. Let's see how it works.

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Exercise: Basic React State

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Use a basic HTML template to build a very simple 'Tic-Tac-Toe' game. Users can take turns clicking on cells, filling them with X or O depending on whose turn it is. Do this using React.

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As bonus exercises you may want to explore:

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- Using loops as part of rendering
- Accounting for the 'finish' (goal) state.

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Bonus: The Solution

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Let's have a look at 's solution, and see if we can code review it.

Things I can spot are:

1. The defaultBoard is being recreated on every single render.
2. firstUser shouldn't be named firstUser.
3. The board goes from being an array of arrays to being a dictionary of arrays.
4. newBoard[x][y] still updates the existing array in-place.
5. border="1" is deprecated.
6. It might be easier to create the table in a loop.

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