HW7: React Hooks

0. Leetcode

https://leetcode.com/problem-list/oizxjoit/ 每天1-3道题,需要用JavaScript或者TypeScript

1. 问答练习(八股)

准备以下八股题目答案, 写在 note.md 里

- 1. How do we do prop types check?
- 2. What is Prop drilling?
- 3. How are we going to render a variable as a react component?
- 4. What is **HOC** and why we need it?
- 5. How to properly render an SVG element as a react component?
- 6. What is lazy loading and what does it help?
- 7. List several react hooks that you use most and what do they do?
- 8. what is useState and what value we should pass in as prop?
- 9. what is the hook useEffect and why we need it?
- 10. What is dependency array in useEffect?
- 11. What is the lifecycle method componentDidUpdate equivalent hook?
- 12. What is the lifecycle method componentDidMount equivalent hook?
- 13. What is the lifecycle method componentWillUnmount equivalent hook?
- 14. What's the difference between useCallback and useMemo?
- 15. What is useContext and the difference between useContext and useState?

小组间Peer Mock,录音并上传

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2. Coding

Write a functional component with React hooks:

- 1. Fetches a random dog image from a public API
- 2. Render the dog image base on API response
- 3. Build a "Get Another Dog" button to fetch a new image
- 4. have a **loading** state while API is loading
- 5. use fetch() method to make API request
- 6. should properly handle failure API requests
- 7. Extra Credit: Instead of using fetch(), use Axios with Factory design pattern to make the API request
- 8. Bonus: Make you App look pretty by using 3rd party CSS components like MUI/tailwindCSS

Note: use following API with GET method https://dog.ceo/api/breeds/image/random (https://dog.ceo/api/breeds/image/random (https://dog.ceo/api/breeds/image/random

Sample payload:

```
"message": "https://images.dog.ceo/breeds/terrier-norfolk/n02094114_324
0.jpg",
    "status": "success"
}
```

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