

本文旨在熟悉ReactJS中Lifecycle hook。并根据video中的指导逐步完成demo。

阶段一 用Class Component,this.setState() and componentDidMount()

<https://www.youtube.com/watch?v=kVyrzn29QPk>

`<App/>`与`<Child/>`

1. 实现相同ReactJS lifecycle hook方法。

but

2. 只在`<App/>` 实现 `handleChange()`
3. `console.log`时打印会有区别。

阶段二 用useState() and useEffect()

In 2018,At React Conf,Dan show us.

step 1 Basic code(same as /src/componets/GreetCard.jsx)

```
import { render } from "@testing-library/react";
import React, { useState } from "react";

export default function GreetCard(props) {
  const [firstName, setFirstName] = useState("Mary");
  const [surName, setSurName] = useState("Poppins");

  function handleFirstNameChange(e) {
    setFirstName(e.target.value);
  }

  function handleSurNameChange(e) {
    setSurName(e.target.value);
  }

  return (
    <section>
      <p>
        <input
          name="firstName"
          value={firstName}
          onChange={handleFirstNameChange}
        ></input>
      </p>
      <p>
        <input
          name="surName"

```

```

        value={surName}
        onChange={handleSurNameChange}
      ></input>
    </p>
  </section>
);
}

```

step 2 Advanced code

customer hook **useFormInput**. Via this, different components can share data.

```

import { render } from "@testing-library/react";
import React, { useState } from "react";

export default function GreetCard(props) {
  const firstName = useFormInput("Mary");
  const surName = useFormInput("Poppings");
  return (
    <section>
      <p>
        <input {...firstName} />{" "}
      </p>
      <p>
        <input {...surName} />
      </p>
    </section>
  );
}

function useFormInput(initValue) {
  const [value, setValue] = useState(initValue);
  function handleValueChange(e) {
    setValue(e.target.value);
  }
  return {
    value,
    onChange: handleValueChange,
  };
}

```

step 3 useEffect()

```

import { render } from "@testing-library/react";
import React, { useEffect, useState } from "react";

export default function GreetCard(props) {
  const firstName = useFormInput("Mary");
  const surName = useFormInput("Poppings");

  const width = useWindowWidth();
  return (

```

```

    <section>
      <p>
        <input {...firstName} />{" "}
      </p>
      <p>
        <input {...surName} />
      </p>
      <p>
        <h1>{width}</h1>
      </p>
    </section>
  );
}
function useFormInput(initValue) {
  const [value, setValue] = useState(initValue);
  function handleValueChange(e) {
    setValue(e.target.value);
  }
  return {
    value,
    onChange: handleValueChange,
  };
}

function useWindowWidth() {
  const [width, setWidth] = useState(window.innerWidth);
  useEffect(() => {
    const handleResize = () => setWidth(window.innerWidth);
    window.addEventListener("resize", handleResize);
    return () => {
      window.removeEventListener("resize", handleResize);
    };
  });
  return width;
}

```