

My Github Repo URL

W15-P1: Do T81_xx, using context to solve prop drilling of T71_xx

The screenshot shows a development environment with two panes. The left pane is a code editor with tabs for `T71_42-prop-drilling.js`, `T81_42-context-api.js`, and `1-fetch-example.js`. The `T81_42-context-api.js` tab contains code for a Context API. The right pane is a browser window displaying the `Tutorial T81_42` page. The browser's developer tools component panel is open, showing the state of the application. The state shows a list of people: John, Peter, Susan, and 陳思語. A red box highlights the `remove` button for 陳思語. The browser's status bar indicates the date and time as 2023/12/23 05:36.

```
const PersonContext = React.createContext();

const T81_42_context_api = () => {
  const [people, setPeople] = useState(data);
  const removePerson = (id) => {
    setPeople((people) => {
      return people.filter((person) => person.id !== id);
    });
  };
  return (
    <PersonContext.Provider value={ {people,removePerson} }>
      <h3>Context API</h3>
      <List />
    </PersonContext.Provider>
  );
};

const List = () => {
  const {people} = useContext(PersonContext);
  return (
    <>
      {people.map((person) => {
        return (
          <SinglePerson
            key={person.id}
            name={person.name}
            remove={() => removePerson(person.id)}
          >
        );
      })}
    </>
  );
};
```

Tutorial T81_42
Context API

人名	操作
John	remove
Peter	remove
Susan	remove
陳思語	remove

hooks

```
Context: {people: Array(4), removePerson: f...}
  people: [(), (), (), ()]
    0: {id: 1, name: "john"}
    1: {id: 2, name: "peter"}
    2: {id: 3, name: "susan"}
    3: {id: 4, name: "陳思語"}  
removePerson: f removePerson()
```

rendered by
T81_42_context_api
App_xx

The screenshot shows a development environment with two panes. The left pane is a code editor with tabs for `T71_42-prop-drilling.js`, `T81_42-context-api.js`, and `1-fetch-example.js`. The `T81_42-context-api.js` tab contains code for a Context API. The right pane is a browser window displaying the `Tutorial T81_42` page. The browser's developer tools component panel is open, showing the state of the application. The state shows a list of people: John, Susan, and 陳思語. A red box highlights the `remove` button for 陳思語. The browser's status bar indicates the date and time as 2023/12/23 05:42.

```
const PersonContext = React.createContext();

const T81_42_context_api = () => {
  const [people, setPeople] = useState(data);
  const removePerson = (id) => {
    setPeople((people) => {
      return people.filter((person) => person.id !== id);
    });
  };
  return (
    <PersonContext.Provider value={ {people,removePerson} }>
      <h3>Context API</h3>
      <List />
    </PersonContext.Provider>
  );
};

> const List = () => { ... };

const SinglePerson = ({id, name}) => {
  const {removePerson} = useContext(PersonContext);
  return (
    <div className='item'>
      <h4>{name}</h4>
      <button onClick={() => removePerson(id)}>remove</button>
    </div>
  );
};
```

Tutorial T81_42
Context API

人名	操作
John	remove
Susan	remove
陳思語	remove

hooks

```
Context: {people: Array(3), removePerson: f...}
  people: [(), (), ()]
    0: {id: 1, name: "john"}
    1: {id: 3, name: "susan"}
    2: {id: 4, name: "陳思語"}  
removePerson: f removePerson()
```

rendered by
T81_42_context_api
App_xx
createRoot()
react-dom@18.2.0

f256b76 George0113

Sat Dec 23 17:44:57 2023 +0800 W15-P1: Do T81_xx, using context to sol\

W15-P2: implement Alert_xx using BlogContext provider

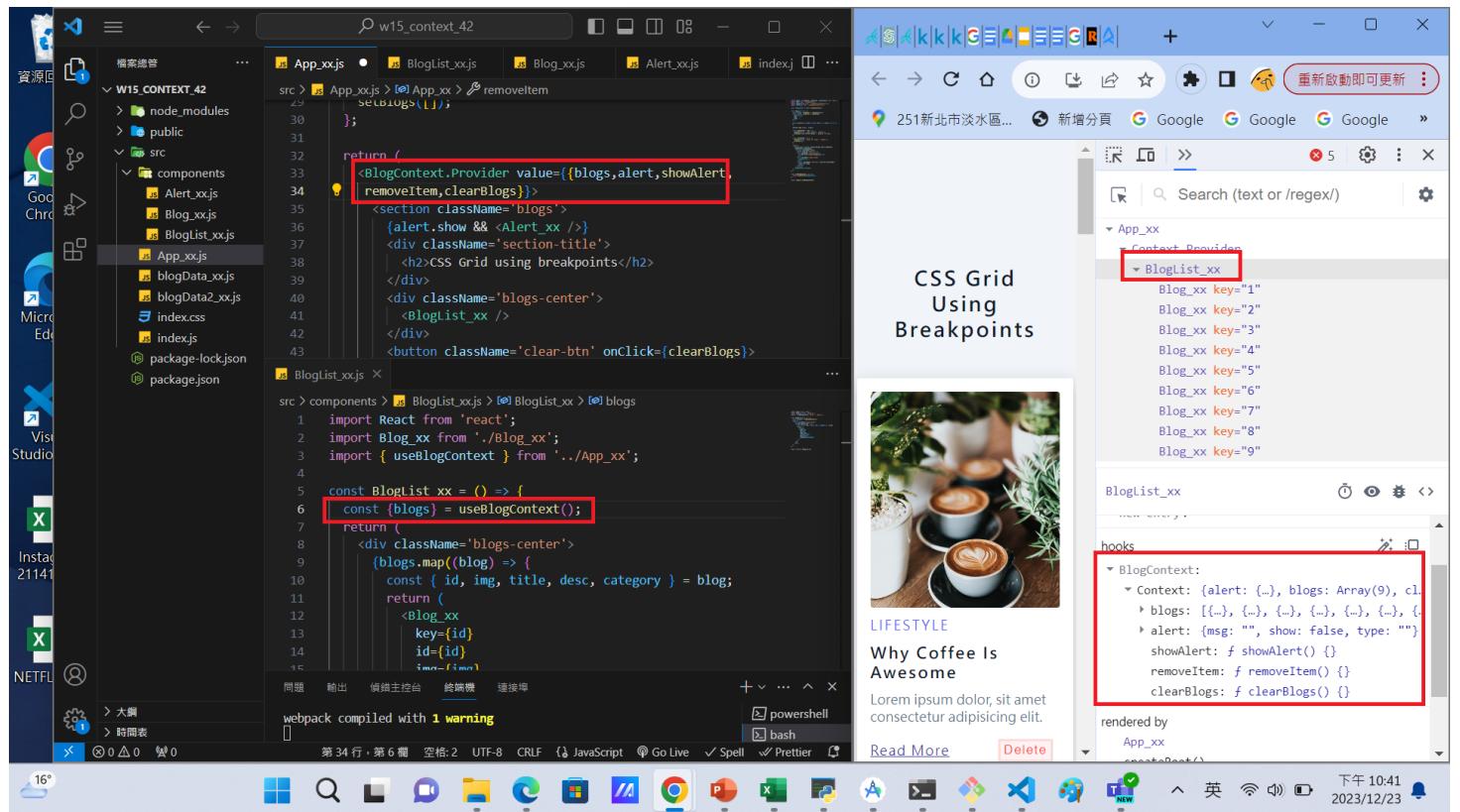
The screenshot shows a development environment with several windows:

- Code Editor:** Displays two files: `App_xx.js` and `Alert_xx.js`. `App_xx.js` contains a `BlogContext.Provider` component with a red box around the `value` prop. `Alert_xx.js` contains a `useEffect` hook with a red box around the `useBlogContext` call.
- Browser:** Shows a blog post titled "CSS Grid Using Breakpoints" with a "Blog Removed" message in a red box at the top.
- Developer Tools:** Shows the React DevTools. In the `BlogList_xx` component tree, there is a node labeled `Alert_xx` with a red box around it. The `props` section shows a new entry: "Blog_xx key='9'". The `hooks` section shows two states: 1. State: [] and 2. State: {msg: "blog removed", show: true}.

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Sat Dec 23 22:29:12 2023 +0800 W15-P2: implement Alert_xx using BlogCor

W15-P3: Implement BlogList_xx and Blog_xx from BlogContext provider



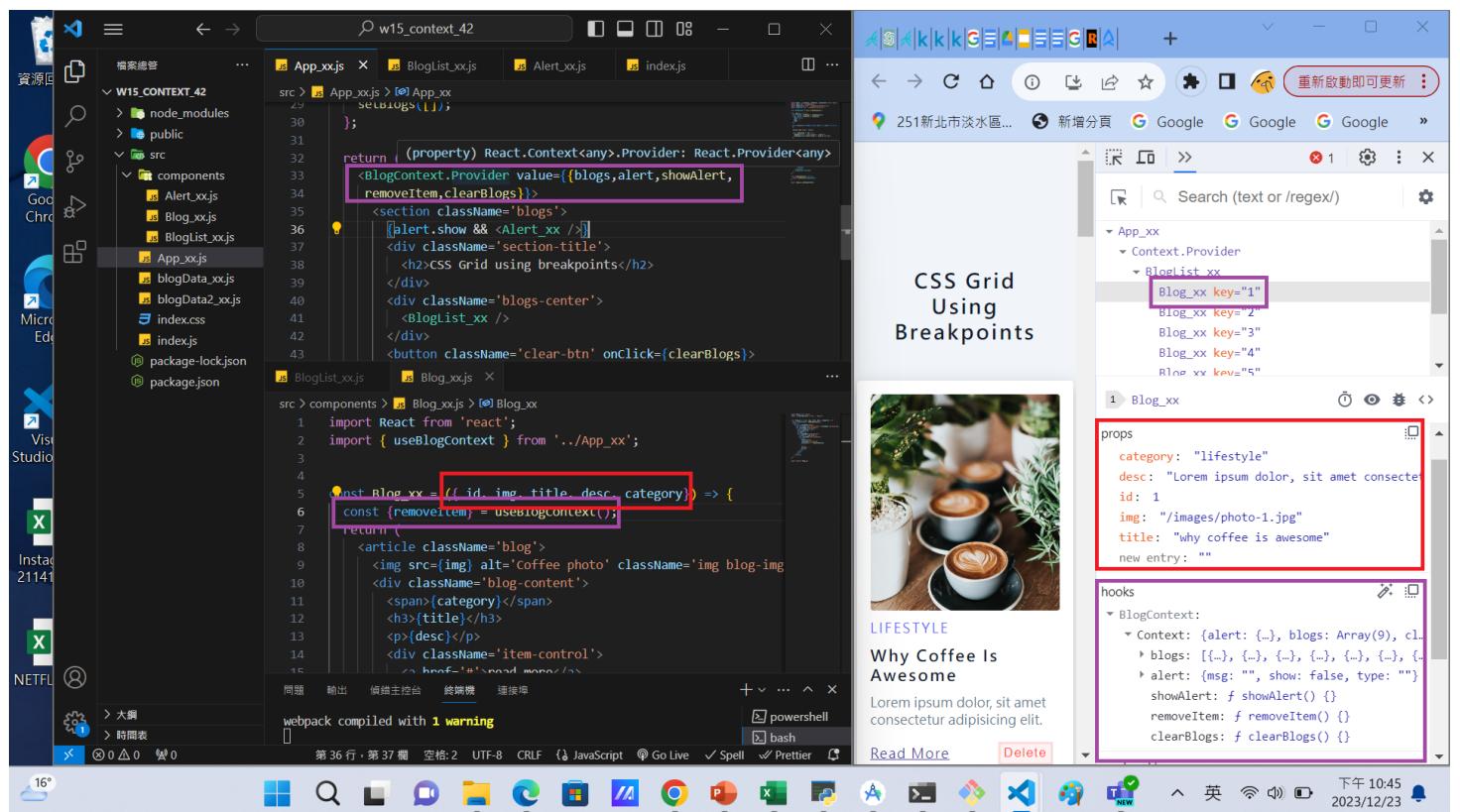
The screenshot shows a Windows desktop environment with two code editors and a browser window.

Code Editors:

- Left Editor (VS Code):** Shows the file structure for "W15_CONTEXT_42". The file "App_xx.js" contains code for "BlogList_xx.js" and "Blog_xx.js". A red box highlights the import statement for "useBlogContext" and the provider component definition.
- Right Editor (VS Code):** Shows a blog post titled "CSS Grid Using Breakpoints" with a sidebar showing the "BlogList_xx" component and its props. A red box highlights the props object.

Browser:

- The browser displays a blog post about coffee with a sidebar showing the "BlogList_xx" component and its props. A red box highlights the props object.



The screenshot shows a Windows desktop environment with two code editors and a browser window.

Code Editors:

- Left Editor (VS Code):** Shows the file structure for "W15_CONTEXT_42". The file "App_xx.js" contains code for "BlogList_xx.js" and "Blog_xx.js". A red box highlights the import statement for "useBlogContext" and the provider component definition.
- Right Editor (VS Code):** Shows a blog post titled "CSS Grid Using Breakpoints" with a sidebar showing the "BlogList_xx" component and its props. A red box highlights the props object.

Browser:

- The browser displays a blog post about coffee with a sidebar showing the "BlogList_xx" component and its props. A red box highlights the props object.

W15-P4: Refine BlogContext in more general form

The screenshot shows a development environment with two main panes. On the left is a code editor for `BlogContext_42.js`, which defines a context provider with state for blogs, alerts, and messages. It includes methods for removing items and clearing blogs. On the right is a browser window displaying a blog post about coffee, with the sidebar showing the component tree and developer tools.

```
const BlogContextProvider_42 = ({children}) => {
  const [blogs, setblogs] = useState(data);
  const [alert, setAlert] = useState({
    show: false,
    msg: '',
    type: ''
  });

  const showAlert = (show = false, msg = '', type = '') =>
    setAlert({ show, msg, type });

  console.log('blogs', blogs);

  const removeItem = (id) => {
    showAlert(true, 'blog removed', 'danger');
    setblogs(blogs.filter(blog => blog.id !== id));
  };

  const clearBlogs = () => {
    showAlert(true, 'empty all blogs', 'danger');
    setblogs([]);
  };

  return (
    <BlogContext.Provider value={{blogs, alert, clearBlogs}}>
      {children}
    </BlogContext.Provider>
  );
};

const useBlogContext = () => {
  return useContext(BlogContext);
};

export {BlogContextProvider_42, useBlogContext};
```

BlogContextProvider_42

- Context.Provider
 - App_xx
 - BlogList_xx
 - Blog_xx key="1"
 - Blog_xx key="2"
 - Blog_xx key="3"
 - Rlne_xx key="4"

hooks

- 1 State: [{...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}, {...}]
 - 0: {category: "lifestyle", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 1: {category: "travel", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 2: {category: "lifestyle", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 3: {category: "lifestyle", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 4: {category: "travel", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 5: {category: "travel", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 6: {category: "travel", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 7: {category: "travel", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
 - 8: {category: "travel", desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit."}
- 2 State: {msg: "", show: false, type: ""}

rendered by `createRoot()`

The screenshot shows a development environment with two main panes. On the left is a code editor for `BlogContext_42.js`, which has been refactored to use the `Context.Provider` directly. It includes a `useBlogContext` hook. On the right is a browser window displaying the same blog post about coffee, with the sidebar showing the component tree and developer tools.

```
const clearBlogs = () => {
  showAlert(true, 'empty all blogs', 'danger');
  setblogs([]);
};

const useBlogContext = () => {
  return useContext(BlogContext);
};

export {clearBlogs, useBlogContext};
```

BlogContextProvider_42

- Context.Provider
 - App_xx
 - BlogList_xx
 - Blog_xx key="1"
 - Blog_xx key="2"
 - Blog_xx key="3"
 - Rlne_xx key="4"

props

- children: <App_xx />
- value: {alert: (...), blogs: Array(9), clearBlogs: f clearBlogs(), removeItem: f removeItem(), showAlert: f showAlert()}
 - alert: {msg: "", show: false, type: ""}
 - blogs: [..., ...]
 - clearBlogs: f clearBlogs()
 - removeItem: f removeItem()
 - showAlert: f showAlert()

new entry: ""
new entry: ""

rendered by `BlogContextProvider_42`
`createRoot()`
`react-dom@18.2.0`

VS Code Screenshot showing the code editor and browser preview side-by-side.

Code Editor:

```

src > App_xxjs > [App_xx]
1 import React, { useState, useEffect, useContext } from 'react';
2 import data from './blogData_xx';
3 import Bloglist_xx from './components/bloglist_xx';
4 import Alert_xx from './components/Alert_xx';
5 import { useBlogContext } from './BlogContext_42';
6
7 const BlogContext = React.createContext();
8
9 const App_xx = () => {
10   const [alert, clearBlogs] = useBlogContext();
11   return (
12     <section className='blogs'>
13       <[alert.show && alert_xx />
14       <div className='section-title'>
15         <h2>CSS Grid using breakpoints</h2>
16       </div>
17       <div className='blogs-center'>
18         <Bloglist_xx />
19       </div>
20       <button className='clear-btn' onClick={clearBlogs}>
21         clear all blogs
22       </button>
23     </section>
24   );
25 }

```

Browser Preview:

The browser shows a blog post titled "CSS Grid Using Breakpoints". The post content includes a heading, some text, and a button labeled "clear all blogs". The "clear all blogs" button is highlighted with a red box.

Console Output:

```

WARNING in [eslint]
src\BlogContext_42.js
Line 1:27: 'useEffect' is defined but never used no-u
nused-vars
Line 3:8: 'BlogList_xx' is defined but never used no-u
nused-vars
Line 4:8: 'Alert_xx' is defined but never used no-u
nused-vars

```

webpack compiled with 1 warning

VS Code Screenshot showing the code editor and browser preview side-by-side.

Code Editor:

```

src > components > [BlogList_xxjs]
1 import React from 'react';
2 import Blog_xx from './Blog_xx';
3 import { useBlogContext } from '../BlogContext_42';
4
5 const BlogList_xx = () => {
6   const [blogs] = useBlogContext();
7   return (
8     <div className='blogs-center'>
9       <[blogs.map((blog) => {
10         const { id, img, title, desc, category } = blog;
11         return (
12           <Blog_xx
13             key={id}
14             id={id}
15             img={img}
16             title={title}
17             desc={desc}
18             category={category}
19           />
20         );
21       })>
22     </div>
23   );
24 }

```

Browser Preview:

The browser shows the same blog post "CSS Grid Using Breakpoints". The "clear all blogs" button is now highlighted with a red box.

Console Output:

```

WARNING in [eslint]
src\BlogContext_42.js
Line 1:27: 'useEffect' is defined but never used no-u
nused-vars
Line 3:8: 'BlogList_xx' is defined but never used no-u
nused-vars
Line 4:8: 'Alert_xx' is defined but never used no-u
nused-vars

```

webpack compiled with 1 warning

VS Code Screenshot showing the code editor and browser preview.

Code Editor:

```

src > components > Blog_xx.js > [x] Blog_xx
1 import React from 'react';
2 import { useBlogContext } from '../BlogContext_42';
3
4
5 const Blog_xx = ({ id, img, title, desc, category }) => {
6   const { removeItem } = useBlogContext();
7   return (
8     <article className='blog'>
9       <img src={img} alt='coffee photo' className='img blo...
10      <div className='blog-content'>
11        <span>{category}</span>
12        <h3>{title}</h3>
13        <p>{desc}</p>
14        <div className='item-control'>
15          <a href="#">read more</a>
16          <div className='btn-container'>
17            <button type='button' className='delete-btn' onClick={() => removeItem(id)}>
18              <span>Delete</span>
19            </button>
20          </div>
21        </div>
22      </div>
23    </article>

```

Terminal:

```

powershell
bash

```

Output:

```

WARNING in [eslint]
src\BlogContext_42.js
  Line 1:27:  'useEffect' is defined but never used  no-u...
  Line 3:8:  'BlogList_xx' is defined but never used  no-u...
  Line 4:8:  'Alert_xx' is defined but never used  no-u...
  Line 5:8:  'nused-vars'  no-u...
webpack compiled with 1 warning

```

Browser Preview:

The browser shows a blog post titled "Why Coffee Is Awesome" under the "LIFESTYLE" category. The post content is placeholder text: "Lorem ipsum dolor, sit amet consectetur adipisicing elit." It includes a "Read More" button and a "Delete" button. The sidebar shows the blog context provider with multiple blog entries, each with a key value (1, 2, 3, 4) and a "Blog_xx" entry highlighted with a red box.

Props for Blog_xx:

```

category: "lifestyle"
desc: "Lorem ipsum dolor, sit amet consectetur adipisicing elit."
id: 1
img: "/images/photo-1.jpg"
title: "why coffee is awesome"
newEntry: ""

```

hooks:

```

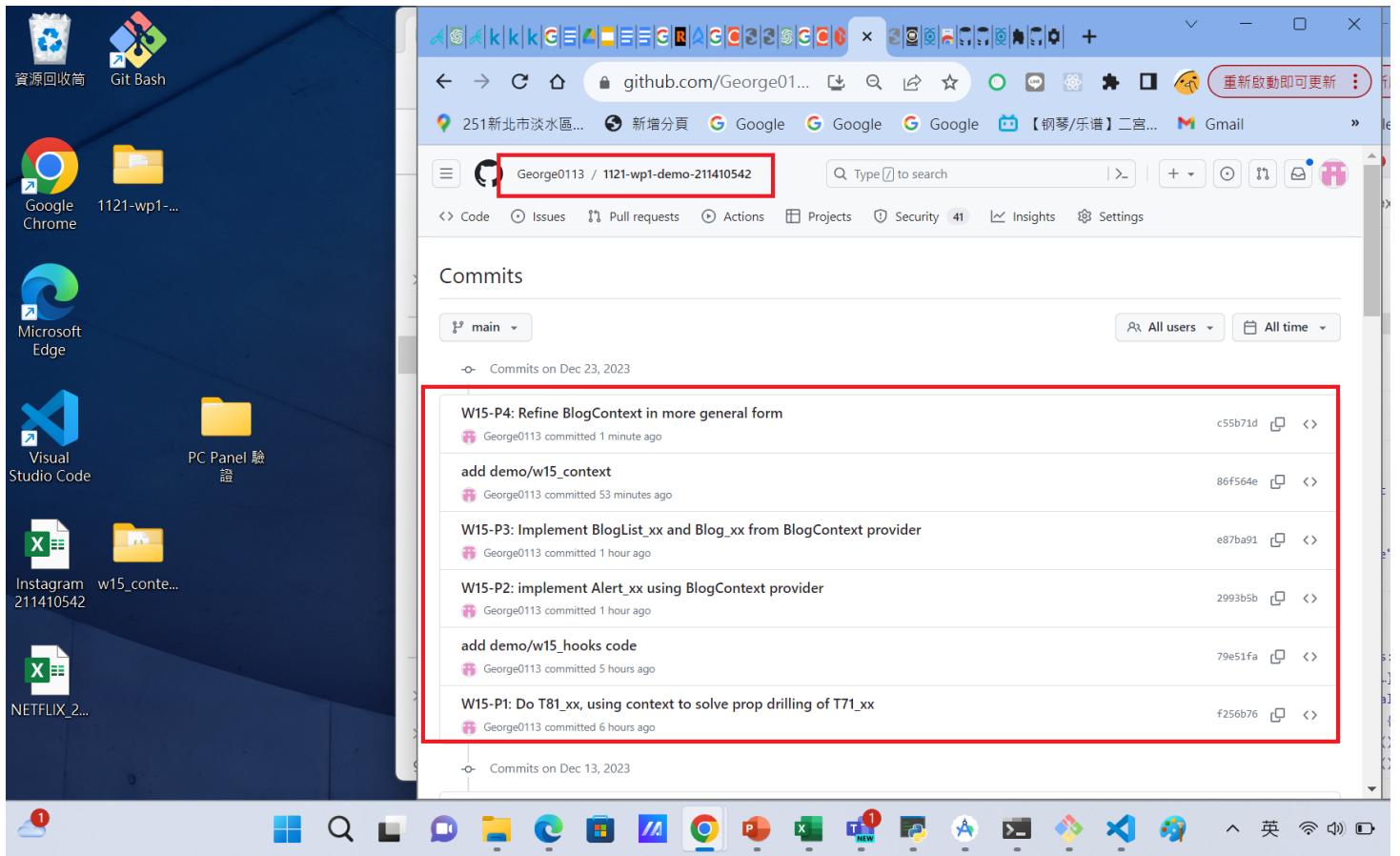
BlogContext:
  Context: { alert: {}, blogs: Array(9), cl...
    blogs: [...]
    alert: { msg: "", show: false, type: "" }
    showAlert: f showAlert() {}
    removeItem: f removeItem() {}
    clearBlogs: f clearBlogs() {}
  }

```

c55b71d George0113

Sat Dec 23 23:49:56 2023 +0800 W15-P4: Refine BlogContext in more gener

W015-P5: W15 all logs



```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-12-12"
49fa0b8 George0113      Sat Dec 23 23:52:39 2023 +0800  W015-P5: W15 all logs
c55b71d George0113      Sat Dec 23 23:49:56 2023 +0800  W15-P4: Refine BlogContext in more general
86f564e George0113      Sat Dec 23 22:57:41 2023 +0800  add demo/w15_context
e87ba91 George0113      Sat Dec 23 22:48:06 2023 +0800  W15-P3: Implement BlogList_xx and Blog_xx from BlogContext provider
2993b5b George0113      Sat Dec 23 22:29:12 2023 +0800  W15-P2: implement Alert_xx using BlogContext provider
79e51fa George0113      Sat Dec 23 18:00:25 2023 +0800  add demo/w15_hooks code
f256b76 George0113      Sat Dec 23 17:44:57 2023 +0800  W15-P1: Do T81_xx, using context to solve prop drilling of T71_xx
```