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W13-P1: Demo prop drilling

=> Chrome, remove 4th person

Prop Drilling

John
Peter
Susan

Remove
Remove
Remove

DevTools Components Tree:

- Fragment key="c"
- SegmentViewMode key="c-page"
- SegmentTreeMode key="page"
- ClientPageRoot
- PropDrilling_11
- List
- SinglePerson key="1"
- SinglePerson key="2"
- SinglePerson key="3"

Props:

```
params: bound Promise
searchParams: bound Promise
new entry: ""
```

Hooks:

```
1 State: [{}]
  0: {id: 1, name: "john"}
  1: {id: 2, name: "peter"}
  2: {id: 3, name: "susan"}  
new entry
```

=> relevant code

```
File Edit Selection View Go Run Terminal Help < > Q 1141-2n-next-chenyihao-11
EXPLORER page.jsx U X # globals.css 1, M Navbar_xx.jsx M ...
src > app > (root) > tutorials > context > 1_propdrilling_11 > page.jsx > PropDrilling_11 > reo
1  'use client';
2
3  import { useState } from 'react';
4  import Wrapper from '../../../../../_assets/_wrapper/Tutorials_11';
5
6  import { data } from '../../../../../_assets/_data/data';
7
8 // more components
9 // fix - context api, redux (for more complex cases)
10
11 const PropDrilling_11 = () => {
12   const [people, setPeople] = useState(data);
13   console.log('data', data);
14
15   const removePerson = (id) => {
16     setPeople((people)=> {
17       return people.filter((person)=> person.id !== id);
18     });
19
20   return (
21     <Wrapper>
22       <div className='container'>
23         <h2>prop_drilling</h2>
24         <List people={people} removePerson={removePerson} />
25       </div>
26     </Wrapper>
27   );
28 };
29
30 const List = ({ people, removePerson }) => {
31   return (
32     <>
33       {people.map((person) => {
34         return (
35           <SinglePerson key={person.id} person={person} removePerson={removePerson} />
36         );
37       });
38     </>
39   );
40 };
41
42 const SinglePerson = ({ id, name, removePerson }) => {
43   return (
44     <div className='item'>
45       <h3>{name}</h3>
46       <button className='btn' onClick={()=> removePerson(id)}>
47         remove
48       </button>
49     </div>
50   );
51 };
52
53 export default PropDrilling_11;
54
55
56
57
58
59
60
```

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Mon Dec 15 00:54:19 2025 +0800 W13-P1: Demo prop drilling

W13-P2: Context API demo for W13-P1

=> Chrome, show PeopleContext.Provider by remove last person

The screenshot shows a Chrome browser window with the URL `localhost:3000/tutorials/context/2_context_people_11`. The page displays a "Context API Demo" with three entries: "John", "Peter", and "Susan", each with a "Remove" button. A red box highlights the entire content area of the page.

On the right side, the Chrome DevTools Components tab is open, showing the component tree for the current page. A red box highlights the "Context.Provider" component in the tree, which is rendered at the path `_context.jsx:19`. The props for this component are shown in the code editor:

```
props
  children: <ForwardRef />
  value: {people: Array(3), reomvePerson: t1() {}}
  people: [Object, Object, Object]
    0: {id: 1, name: "john"}
    1: {id: 2, name: "peter"}
    2: {id: 3, name: "susan"}  
removePerson: t1() {}  
new entry: ""  
new entry: ""
```

The "value" prop contains an array of three objects, each representing a person with properties "id" and "name". The "removePerson" prop is a function reference.

=> relevant code

The screenshot shows a code editor with two tabs: `page.jsx` and `data.js`. The `page.jsx` file contains the following code:

```
use client;
import { useState, createContext, useContext } from 'react';
import { data } from '../_assets/_data/data';

const PeopleContext = createContext();
export const PeopleContextProvider_11 = ({ children }) => {
  const [people, setPeople] = useState(data);
  console.log('data', data);

  const removePerson = (id) => {
    setPeople((people) => {
      return people.filter((person) => person.id !== id);
    });
  };

  return (
    <PeopleContext.Provider value={{ people, removePerson }}>
      {children}
    </PeopleContext.Provider>
  );
};

export const usePeopleContext_11 = () => {
  return useContext(PeopleContext);
};
```

The `data.js` file contains the following code:

```
import { usePeopleContext_11, PeopleContextProvider_11 } from './_context';

// more components
// fix - context api, redux (for more complex cases)

const PropDrilling_11 = () => {
  return (
    <PeopleContextProvider_11>
      <Wrapper>
        <div className='container'>
          <h3>Context API Demo</h3>
          <List />
        </div>
      </Wrapper>
    </PeopleContextProvider_11>
  );
};

const List = () => {
  const { people } = usePeopleContext_11();
  return (
    <>
      {people.map((person) => {
        return <SinglePerson key={person.id} {...person}/>;
      })}
    </>
  );
};

const SinglePerson = ({ id, name }) => {
  const { removePerson } = usePeopleContext_11();
  return (
    <div className='item'>
      <h4>{name}</h4>
      <button className='btn' onClick={()=> removePerson(id)}>
        remove
      </button>
    </div>
  );
};
```

The code editor interface includes a sidebar with project navigation, a status bar at the bottom, and a system tray at the very bottom.

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Mon Dec 15 01:53:04 2025 +0800 W13-P2: Context API demo for W13-P1

W13-P3: Move W7 BlogJson2 page to the route /demo/blog_xx/localjson2_xx

=> Chrome, show the result

The screenshot shows a web browser window with the following details:

- Address Bar:** localhost:3000/demo/blog_11/localjson2_11
- Page Title:** TkuDemo
- Page Content:** A grid of blog posts. The posts are as follows:
 - Post 1: LIFESTYLE 📸 Seven Reasons Why Coffee Is Awesome. Preview image shows coffee cups.
 - Post 2: TRAVEL 🛌 Travel To Paris. Preview image shows a bridge at night.
 - Post 3: LIFESTYLE 📸 Coffee Brings Friendship. Preview image shows hands holding coffee cups.
 - Post 4: LIFESTYLE 📸 Coffee Make You Feel Good. Preview image shows a cup of coffee.
 - Post 5: LIFESTYLE 📸 Coffee Make You Calm. Preview image shows a cup of coffee.
 - Post 6: TRAVEL 🛌 101 Tower In Taipei. Preview image shows the Taipei 101 building.
- Context Menu (over Post 4):** A context menu is open, listing items: W2-BookList_11, W3-BlogStatic_11, W3-BlogLocalJson_11, W4-BlogNode_11, W6-BlogSupa_11, W7-BlogLocalJson2_11 (highlighted with a red box), W11-ShopNode_11, and W12-ShopSupa_11.
- Status Bar:** localhost:3000/demo/blog_11/localjson2_11#
- System Tray:** Shows weather (未来幾天是雨天 14°C), search bar, and various system icons.

=> relevant code

```
src > app > (root) > demo > blog_11 > localjson2_11 > page.jsx > [BlogLocalJsonPage2_11]
```

```
1  'use client';
2  import { useState } from 'react';
3
4  import blogData_11 from '../../../../../assets/data/blogData.json';
5  import Blog2_11 from '../../../../../components/Blog2_11';
6  import Wrapper from '../../../../../assets/wrapper/Blog2_11';
7  import Alert_11 from '../../../../../components/Alert_11';
8
9  const BlogLocalJsonPage2_11 = () => {
10  const [name, setName] = useState('ChenYiHao');
11  const [id, setId] = useState(213410011);
12  const [blogs_11, setBlogs_11] = useState(blogData_11);
13  const [alert, setAlert] = useState({
14    show: false,
15    msg: '',
16    type: ''
17  });
18
19  const showAlert = (show = false, msg = '', type = '') => {
20    setAlert({ show, msg, type });
21  };
22
23  const removeItem = (id) => {
24    showAlert(true, 'blog removed', 'danger');
25    setBlogs_11(blogs_11.filter((blog) => blog.id !== id));
26  };
27
28  const clearAllBlogs = () => {
29    showAlert(true, 'clear all blogs', 'danger');
30    setBlogs_11([]);
31  };
32
33  const loadAllBlogs = () => {
34    showAlert(true, 'load all blogs', 'success');
35    setBlogs_11([]);
36    setBlogs_11(blogData_11);
37  };
38}
```

The code in page.jsx handles state management for a blog entry, including loading data from a JSON file, displaying alerts, and managing a list of blogs. It uses React's useState hook to track the blog title, ID, and a modal alert. It also includes functions to remove a specific blog entry or clear all entries.

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Mon Dec 15 02:43:34 2025 +0800 W13-P3: Move W7 BlogJson2 page to the root