

Web Programming 2N Quiz2

2023-12-27, at E201

Note:

1. 請不要發揮同學愛，作弊雙方除了本次考試 0 分外，平常分數另扣 20 分。
2. iClass 上請繳交 quiz2_xx.md, quiz2_xx.pdf，還有 src.zip
3. 老師將題目及要實作的部分放在 quiz2_htc.pdf 上，同學答案請放在 quiz2_xx.md 檔上，請參考老師實作的圖片來實作
4. 每一張圖片要有機房左側背景，要有你的學號，圖片標註要跟老師所標註的類似。違者會依情節扣分。
5. 請自評分數，將每一題的？填入分數，沒有填者，不會批改，以 0 分計算。

Your (Name, ID): (?, ?)

P1(50%) -- Context API

- P1-1 (20%): ? 分
- P1-2 (20%): ? 分
- P1-3 (10%): ? 分

P2 (50%) -- Context API Using Local Storage

- P2-1 (20%): ? 分
- P2-2 (20%): ? 分
- P2-3 (10%): ? 分

總分: ? 分

(50%) P1: Context1 using Context API

(20%) P1-1: Use route /context1_xx to show page BlogContext1_xx.js with buttons (All, LifeStyle, Travel)

The screenshot shows a web browser window with the URL `localhost:3000/context1_xx`. The main content area displays a header with the title "CSS Grid Using Breakpoints" and the author "Hsingtai Chung, 123456789". Below the header are three categories of posts:

- LIFESTYLE:** Why Coffee Is Awesome. Description: Lorem ipsum dolor, sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)
- TRAVEL:** Travel To Paris. Description: Lorem ipsum dolor, sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)
- LIFESTYLE:** Quod Expedita Quam Facere. Description: Lorem ipsum dolor, sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

Below these are four additional image cards:

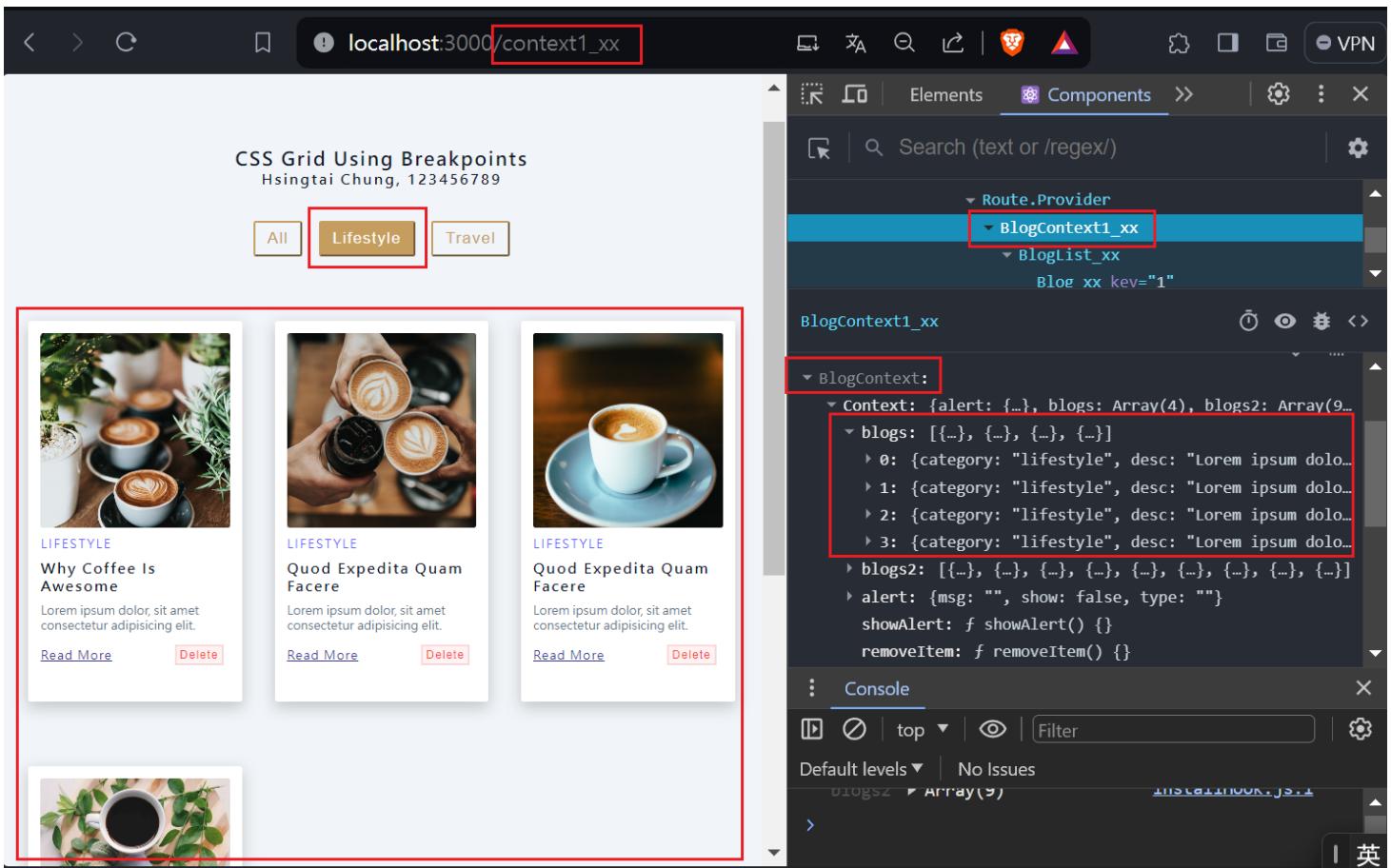
- A cup of coffee with latte art next to some green leaves.
- A bridge at night with lights reflecting in the water.
- Two hands holding cups of coffee with latte art.
- A cup of coffee on a saucer.

=> Your Answer



(20%) P1-2: Implement three buttons All, LifeStyle, Travel

=> LifeStyle Button



CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

LIFESTYLE Why Coffee Is Awesome Lorem ipsum dolor, sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor, sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor, sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

BlogContext1_xx

Route.Provider

BlogContext1_xx

BlogList_xx

Blog xx key="1"

BlogContext:

- context: {alert: {}, blogs: Array(4), blogs2: Array(9...)}
 - blogs: [{} , {} , {} , {}]
 - 0: {category: "lifestyle", desc: "Lorem ipsum dolor..."}
 - 1: {category: "lifestyle", desc: "Lorem ipsum dolor..."}
 - 2: {category: "lifestyle", desc: "Lorem ipsum dolor..."}
 - 3: {category: "lifestyle", desc: "Lorem ipsum dolor..."}
 - blogs2: [{} , {} , {} , {} , {} , {} , {} , {} , {}]
 - 0: {msg: "", show: false, type: ""}
 - 1: showAlert: f
 - 2: removeItem: f
 - alert: {msg: "", show: false, type: ""}
 - showAlert: f
 - removeItem: f

Console

Default levels ▾ | No Issues

blogs Array(4)

blogxx.js:1

=> Your Answer

=> browser



=> code

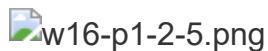


=> Travel Button

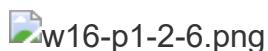
The screenshot shows a browser window with the URL `localhost:3000/context1_xx`. The main content area displays a grid of travel-related blog posts. Each post card includes a thumbnail image, the word "TRAVEL", a title like "Travel To Paris" or "Quod Expedita Quam Facere", a short description, a "Read More" link, and a "Delete" button. A sidebar on the left contains navigation buttons for "All", "Lifestyle", and "Travel". The "Travel" button is highlighted with a red box. The developer tools' Components tab is open, showing the component hierarchy: `Route.Provider` → `BlogContext1_xx` → `BlogList_xx`. The code pane shows the state of `BlogContext1_xx`, specifically the `blogs` array which contains five travel posts. The "Delete" button in the developer tools is also highlighted with a red box.

=> Your Answer

=> browser



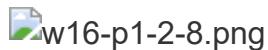
=> code



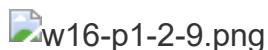
=> All Button

=> Your Answer

=> browser



=> code



(10%) P1-3: Implement delete and clear all blogs

=> Clear All Blogs

The screenshot shows a browser window at `localhost:3000/context1_xx`. The page displays a header with "CSS Grid Using Breakpoints" and "Hsingtai Chung, 123456789". Below the header are three buttons: "All", "Lifestyle", and "Travel". A red box highlights a button labeled "Clear All Blogs". To the right of the browser window is the React DevTools component tree. The tree shows the following structure:

```
Browser Router
  Router
    Navigation.Provider
      Location.Provider
        Routes
          RenderedRoute
            Route.Provider
              BlogContext1_xx
                BlogList_xx
```

Below the component tree, the "BlogContext1_xx" component is expanded, showing its props and hooks. The "props" section contains "new_entry: ''". The "hooks" section contains a "BlogContext" provider with a "Context" object. The "blogs" field in the Context object is highlighted with a red box.

```
props
  new_entry: ""

hooks
  BlogContext:
    Context: {alert: ..., blogs: Array(0), blogs2: Array(9), cle...}
      blogs: []
```

=> Your Answer

=> browser



=> code



=> Delete first two blogs

The screenshot shows a browser window with the URL `localhost:3000/context1_xx`. The page displays a grid of blog cards. The first two cards in the top row are highlighted with a red box. Each card contains a thumbnail, a category (LIFESTYLE or TRAVEL), a title ("Quod Expedita Quam Facere"), a short description ("Lorem ipsum dolor, sit amet, consectetur adipiscing elit."), and two buttons: "Read More" and "Delete". The developer tools' Components tab is open, showing the state of the `BlogContext1_xx` context. A red box highlights the `blogs` array, which contains 9 items, each representing a blog post with properties like `category`, `desc`, and `key`.

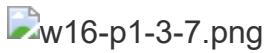
```
BlogContext1_xx
  - blogs: [
      {category: "lifestyle", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "3"}, 
      {category: "lifestyle", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "4"}, 
      {category: "lifestyle", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "5"}, 
      {category: "travel", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "6"}, 
      {category: "travel", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "7"}, 
      {category: "travel", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "8"}, 
      {category: "travel", desc: "Lorem ipsum dolor, sit amet, consectetur adipiscing elit.", key: "9"}]
```

=> Your Answer

=> browser

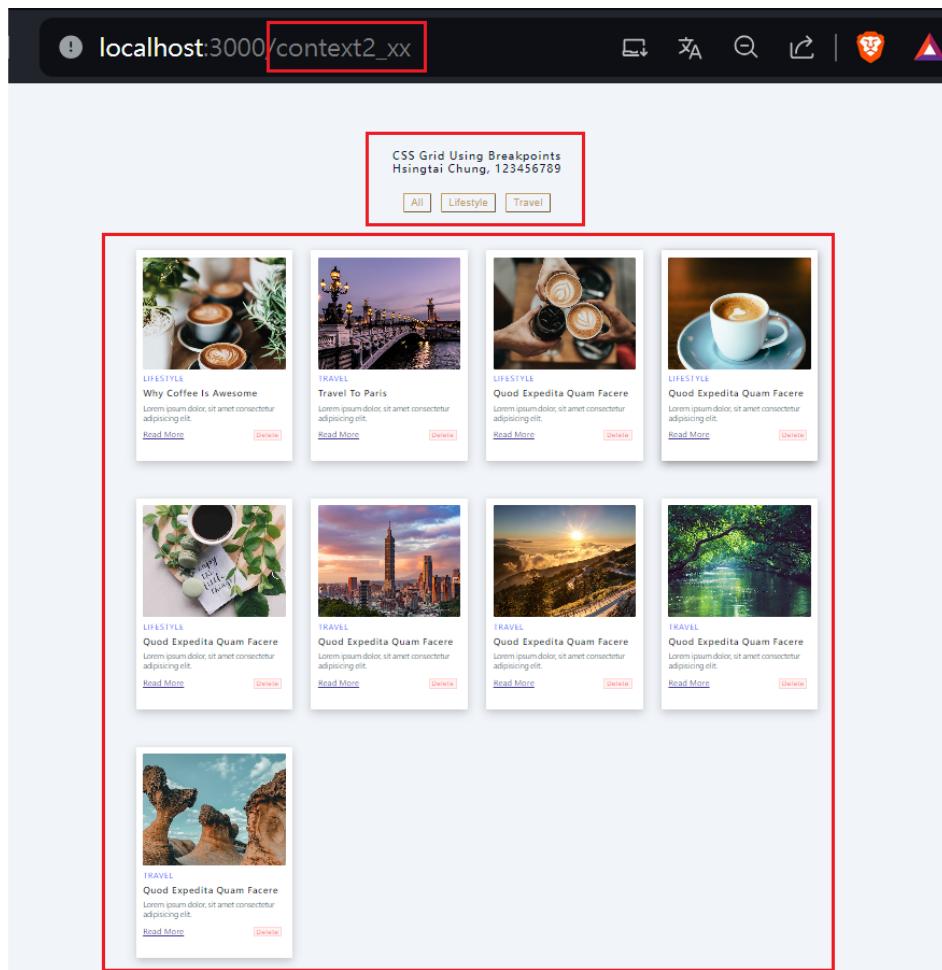


=> code

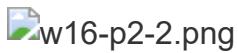


(50%) P2: Context2 using local storage

(20%) P2-1: Use route /context2_xx to show page BlogContext1_xx.js with buttons (All, LifeStyle, Travel)

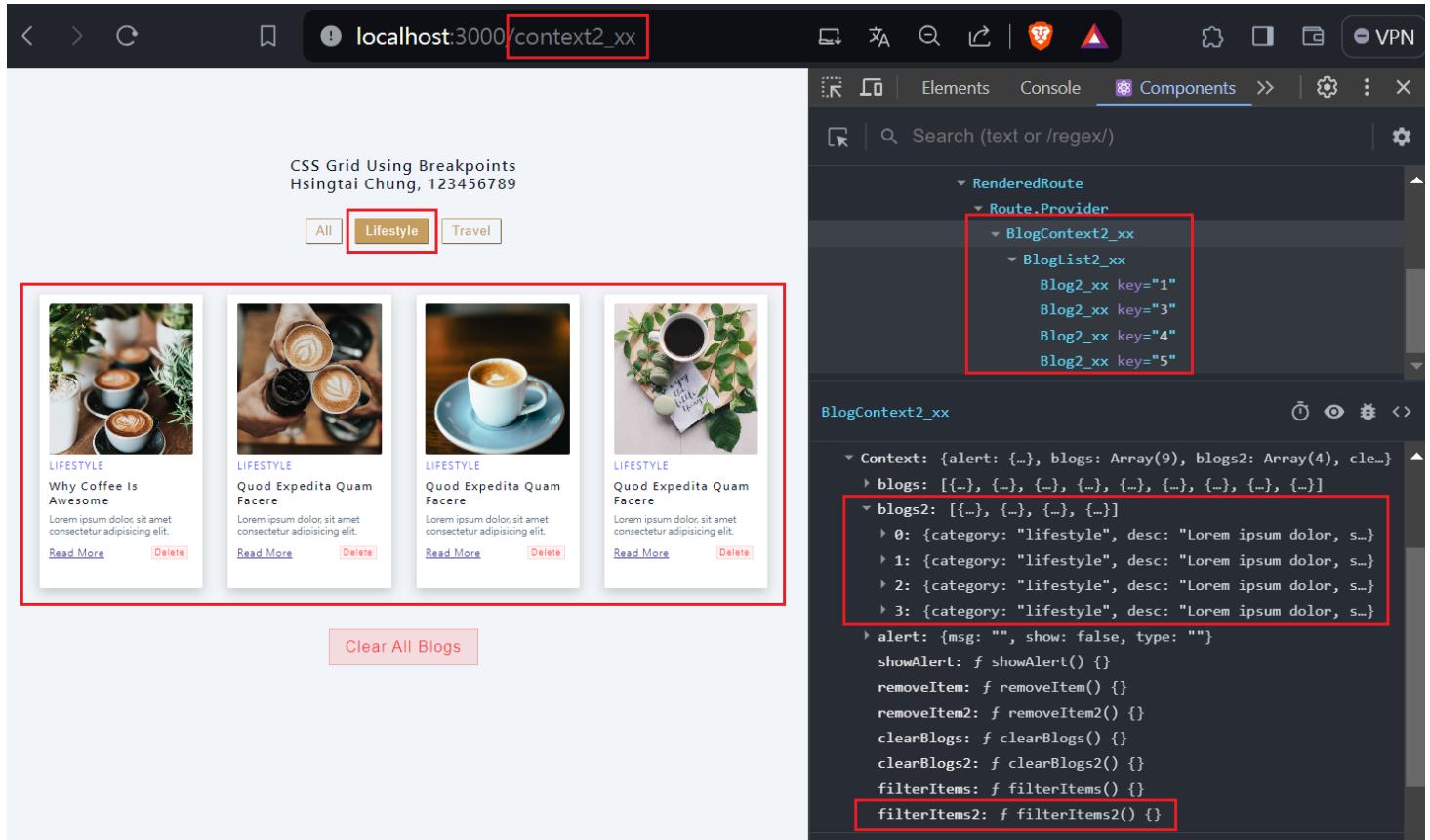


=> Your Answer



(20%) P2-2: Implement three buttons All, LifeStyle, Travel using local storage

=> LifeStyle Button



CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

LIFESTYLE Why Coffee Is Awesome Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

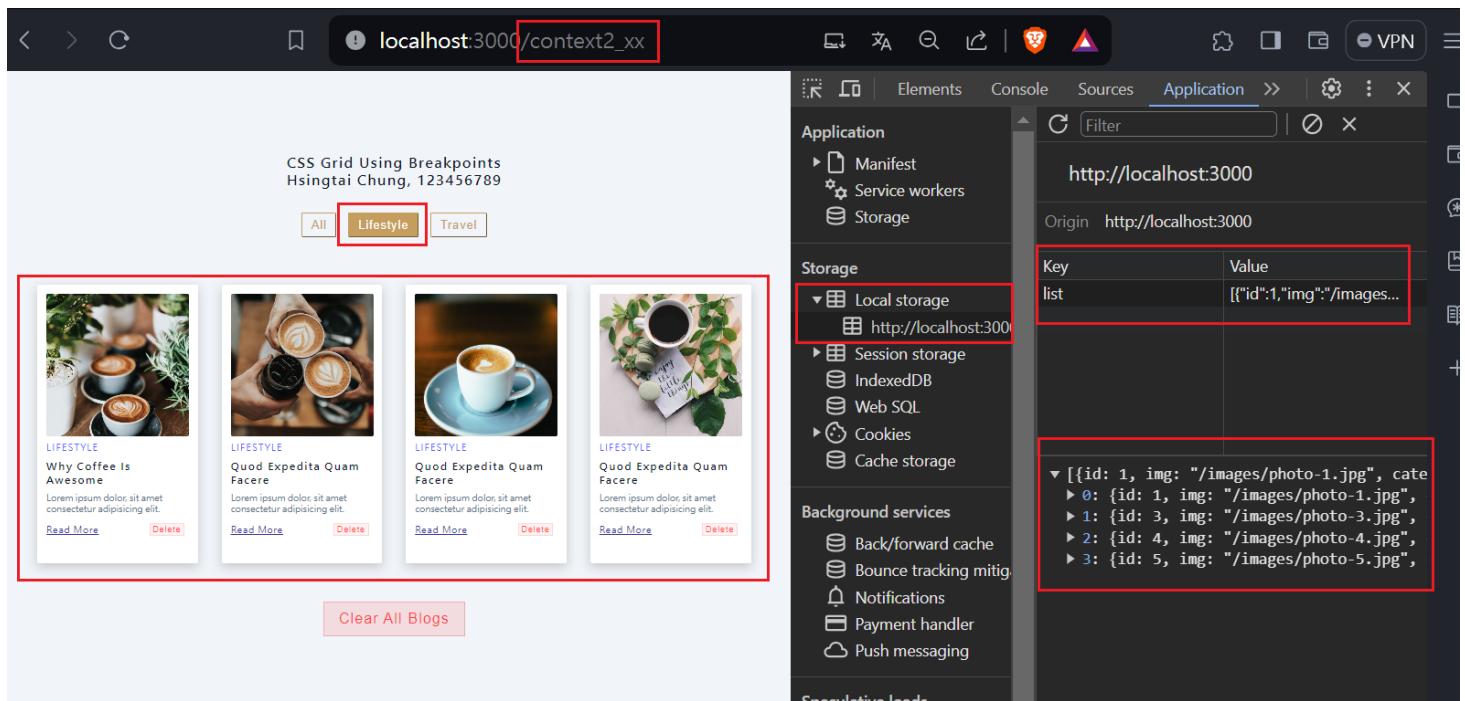
LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

[Clear All Blogs](#)

RenderedRoute
Route.Provider
BlogContext2_xx
BlogList2_xx
Blog2_xx key="1"
Blog2_xx key="3"
Blog2_xx key="4"
Blog2_xx key="5"

BlogContext2_xx
Context: {alert: ..., blogs: Array(9), blogs2: Array(4), cle...}
blogs: [..., ..., ..., ..., ..., ..., ..., ..., ...]
blogs2: [..., ..., ..., ...]
0: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
1: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
2: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
3: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
alert: {msg: "", show: false, type: ""}
showAlert: f showAlert() {}
removeItem: f removeItem() {}
removeItem2: f removeItem2() {}
clearBlogs: f clearBlogs() {}
clearBlogs2: f clearBlogs2() {}
filterItems: f filterItems() {}
filterItems2: f filterItems2() {}



CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

LIFESTYLE Why Coffee Is Awesome Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

LIFESTYLE Quod Expedita Quam Facere Lorem ipsum dolor sit amet consectetur adipisicing elit. [Read More](#) [Delete](#)

[Clear All Blogs](#)

Application
Manifest
Service workers
Storage
Storage
Local storage
http://localhost:3000
Key Value
list [{"id":1,"img":"/images/...}]

Background services
Back/forward cache
Bounce tracking mitigation
Notifications
Payment handler
Push messaging

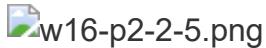
Speculative loads

=> Your Answer

=> browser



=> code



=> Travel Button

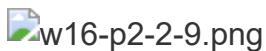
A screenshot of a browser window showing a grid of travel blog cards. The cards are arranged in two rows. Each card features a small image, the word 'TRAVEL' in blue, the title 'Travel To Paris' or 'Quod Expedita Quam Facere', a short description, a 'Read More' button, and a 'Delete' button. The 'Travel' category is highlighted with a red border. To the right of the browser window, the React DevTools component tree is visible. It shows the 'BlogContext2_xx' component, which contains a 'blogs2' array. This array has five items, each representing a blog post with a key from 0 to 4. The 'category' for all items is 'travel'. The 'desc' field for each item contains placeholder text: 'Lorem ipsum dolor, sit amet, consectetur adipiscing elit.' The 'filterItems2' method is also listed in the component tree.

The screenshot shows a web browser window with the URL `localhost:3000/context2_xx`. The page displays a grid of travel-related images and descriptions. The 'Travel' category is highlighted with a red box. In the developer tools' Application tab, the Local storage section is expanded, showing a key-value pair where the key is 'list' and the value is a JSON array of objects representing the grid items.

Key	Value
list	[{"id":2,"img":"/images/photo-2.jpg","cate... {"id":6,"img":"/images/photo-6.jpg"}, {"id":7,"img":"/images/photo-7.jpg"}, {"id":8,"img":"/images/photo-8.jpg"}, {"id":9,"img":"/images/photo-9.jpg"}]

=> Your Answer

=> browser



=> code



=> All Button

localhost:3000/context2_xx

CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

RenderedRoute

- Route.Provider
- BlogContext2_xx
- BlogList2_xx
- Blog2_xx key="1"
- Blog2_xx key="2"
- Blog2_xx key="3"
- Blog2_xx key="4"

BlogContext2_xx

Context: {alert: {}, blogs: Array(9), blogs2: Array(9), cle...}

blogs: [{}]

blogs2: [{}]

- 0: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
- 1: {category: "travel", desc: "Lorem ipsum dolor, sit ..."}
- 2: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
- 3: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
- 4: {category: "lifestyle", desc: "Lorem ipsum dolor, s..."}
- 5: {category: "travel", desc: "Lorem ipsum dolor, sit ..."}
- 6: {category: "travel", desc: "Lorem ipsum dolor, sit ..."}
- 7: {category: "travel", desc: "Lorem ipsum dolor, sit ..."}
- 8: {category: "travel", desc: "Lorem ipsum dolor, sit ..."}

alert: {msg: "", show: false, type: ""}

showAlert: f showAlert() {}

removeItem: f removeItem() {}

removeItem2: f removeItem2() {}

clearBlogs: f clearBlogs() {}

localhost:3000/context2_xx

CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

Application

Manifest

Service workers

Storage

Storage

- Local storage
- http://localhost:3000

Key	Value
list	[{"id":1,"img":"/images/...

Background services

- Back/forward cache
- Bounce tracking mitig.
- Notifications
- Payment handler
- Push messaging

Speculative loads

- Rules
- Speculations
- This page

http://localhost:3000

Origin http://localhost:3000

[{"id": 1, img: "/images/photo-1.jpg", cate...

0: {id: 1, img: "/images/photo-1.jpg",...

1: {id: 2, img: "/images/photo-2.jpg",...

2: {id: 3, img: "/images/photo-3.jpg",...

3: {id: 4, img: "/images/photo-4.jpg",...

4: {id: 5, img: "/images/photo-5.jpg",...

5: {id: 6, img: "/images/photo-6.jpg",...

6: {id: 7, img: "/images/photo-7.jpg",...

7: {id: 8, img: "/images/photo-8.jpg",...

8: {id: 9, img: "/images/photo-9.jpg",...

=> Your Answer

=> browser



=> code



(10%) P2-3: Implement delete and clear all blogs

=> Clear All Blogs

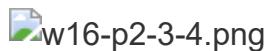
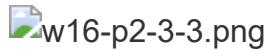
A screenshot of a web browser window. The address bar shows 'localhost:3000/context2_xx'. The page content displays a header 'CSS Grid Using Breakpoints' and 'Hsingtai Chung, 123456789' followed by three buttons: 'All', 'Lifestyle', and 'Travel'. Below these is a red rectangular box containing a 'Clear All Blogs' button. The browser's developer tools are open, specifically the 'Elements' tab, which shows the component tree. A red box highlights the 'BlogContext2_xx' component, which contains a 'blogs2' array. This array is also highlighted with a red box. The code for the 'BlogContext2_xx' component is visible in the 'hooks' section, showing methods like 'clearBlogs2' and 'filterItems2'. The 'rendered by' section shows 'App_xx'.

The screenshot shows a browser window with the URL `localhost:3000/context2_xx`. In the developer tools Application tab, the Local storage section is expanded, showing an entry for the domain `http://localhost:3000`. The table contains one item with the key `list` and the value `[]`. A red box highlights this entry.

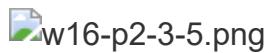
Key	Value
list	[]

=> Your Answer

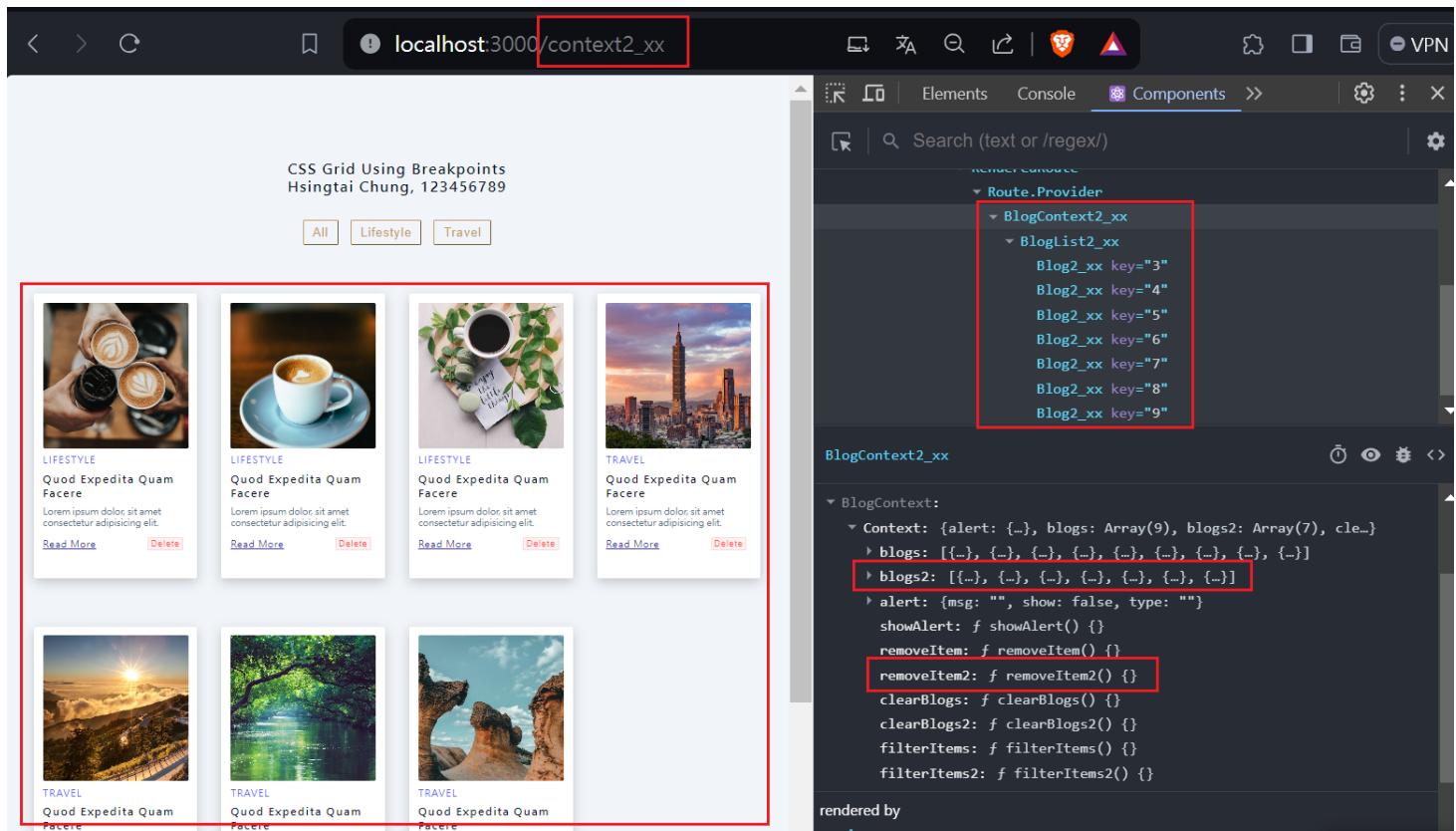
=> browser



=> code



=> Delete first two blogs



CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

LIFESTYLE Quod Expedita Quam Facere

LIFESTYLE Quod Expedita Quam Facere

LIFESTYLE Quod Expedita Quam Facere

TRAVEL Quod Expedita Quam Facere

TRAVEL Quod Expedita Quam Facere

TRAVEL Quod Expedita Quam Facere

Read More Delete Read More Delete Read More Delete

Read More Delete Read More Delete Read More Delete

Read More Delete

Rendered by App_xx

Route.Provider

BlogContext2_xx

BlogList2_xx

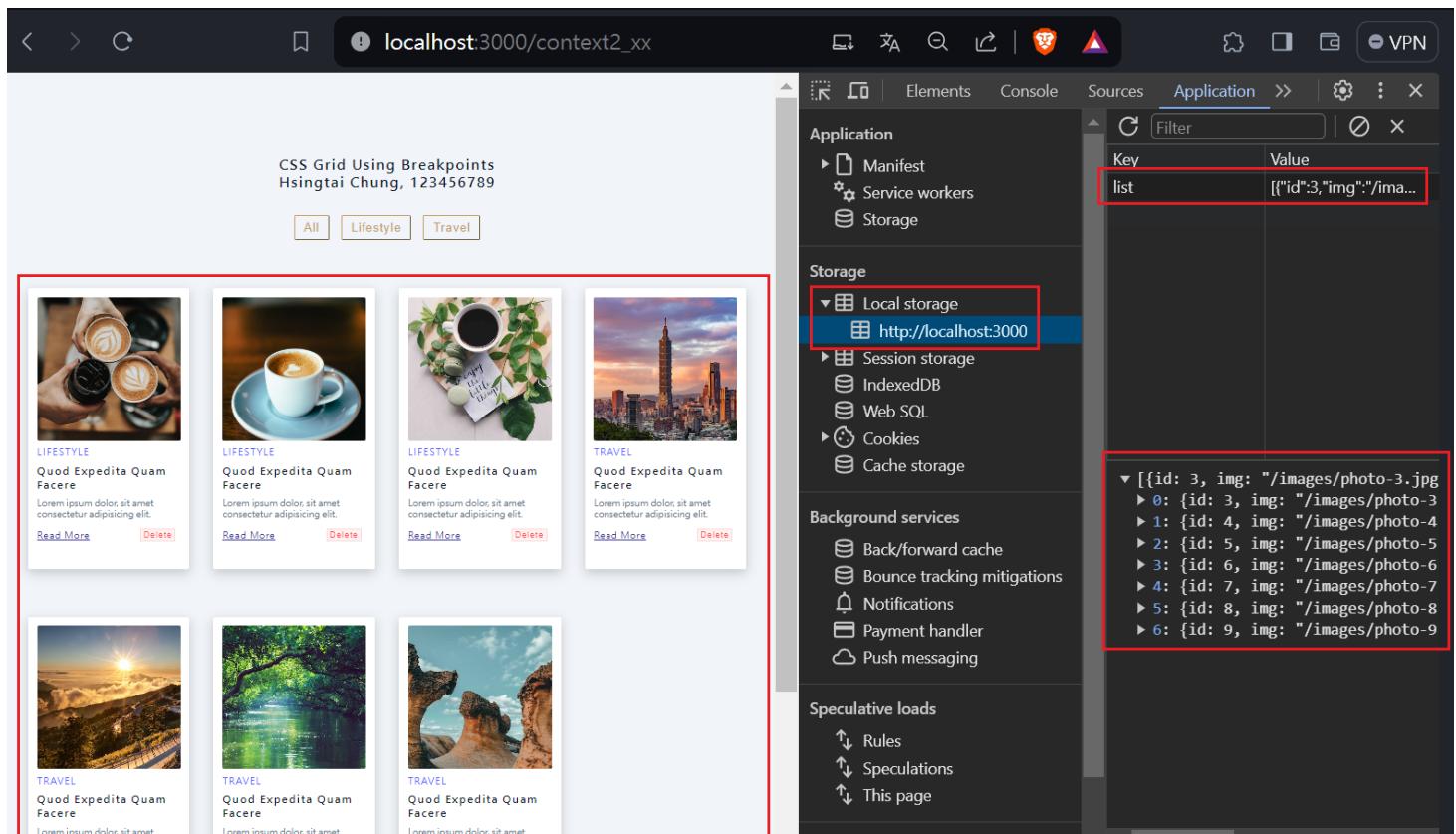
Blog2_xx key="3"
Blog2_xx key="4"
Blog2_xx key="5"
Blog2_xx key="6"
Blog2_xx key="7"
Blog2_xx key="8"
Blog2_xx key="9"

BlogContext2_xx

BlogContext:

- Context: {alert: {}, blogs: Array(9), blogs2: Array(7), clearBlogs: f clearBlogs(), clearBlogs2: f clearBlogs2(), filterItems: f filterItems(), filterItems2: f filterItems2()}
- blogs: [{}]
- blogs2: [{}]
- alert: {msg: "", show: false, type: ""}
- showAlert: f showAlert()
- removeItem: f removeItem()
- removeItem2: f removeItem2()
- clearBlogs: f clearBlogs()
- clearBlogs2: f clearBlogs2()
- filterItems: f filterItems()
- filterItems2: f filterItems2()

rendered by App_xx



CSS Grid Using Breakpoints
Hsingtai Chung, 123456789

All Lifestyle Travel

LIFESTYLE Quod Expedita Quam Facere

LIFESTYLE Quod Expedita Quam Facere

LIFESTYLE Quod Expedita Quam Facere

TRAVEL Quod Expedita Quam Facere

TRAVEL Quod Expedita Quam Facere

TRAVEL Quod Expedita Quam Facere

Read More Delete Read More Delete Read More Delete

Read More Delete Read More Delete Read More Delete

Read More Delete

Application

Manifest

Service workers

Storage

Key	Value
list	[{"id":3,"img":"/images/photo-3.jpg"}]

Storage

Local storage

Key	Value
list	[{"id":3,"img":"/images/photo-3.jpg"}]

Session storage

IndexedDB

Web SQL

Cookies

Cache storage

Background services

Back/forward cache

Bounce tracking mitigations

Notifications

Payment handler

Push messaging

Speculative loads

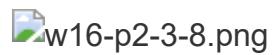
Rules

Speculations

This page

=> Your Answer

=> browser



=> code

