

[Github URL](#)

## W11-P1: Implement route /api/shop\_xx/:category in server

=> create tables category2\_xx and shop2\_xx using SQL and set foreign key of cat\_id referencing to cid in category2\_xx

The screenshot shows the pgAdmin 4 interface. In the Object Explorer, under the 'Tables' section, the 'category2\_44' and 'shop2\_44' tables are selected. The 'Constraints' tab for the 'shop2\_44' table is highlighted with a red box. A new constraint named 'shop2\_44\_pkey' is being created, as shown in the 'Create - Foreign key' dialog box. The 'Referenced Table' dropdown is set to 'public.category2\_44'. The 'Local' column is set to 'cat\_id' and the 'Referenced' column is set to 'cid'. The 'Data Output' pane shows the data from the 'shop2\_44' table.

pid	pname	cat_id	price	img_url	remote_img_url
1	Brown Brim	1	25	/images/midterm/hats/brown-brim.png	https://i.ibb.co/ZYW3VTP/brown-brim.png
2	Blue Beanie	1	18	/images/midterm/hats/blue-beanie.png	https://i.ibb.co/ypkGDX/blue-beanie.png
3	Brown Cowboy	1	35	/images/midterm/hats/brown-cowboy.png	https://i.ibb.co/QdJwqmg/brown-cowboy.png
4	Grey Brim	1	25	/images/midterm/hats/grey-brim.png	https://i.ibb.co/RBLVx8/grey-brim.png
5	Green Beanie	1	18	/images/midterm/hats/green-beanie.png	https://i.ibb.co/TW3vF/green-beanie.png
6	Palm Tree Cap	1	14	/images/midterm/hats/palm-tree-cap.png	https://i.ibb.co/HBDvJX/palm-tree-cap.png
7	Red Beanie	1	18	/images/midterm/hats/red-beanie.png	https://i.ibb.co/LB646Z/red-beanie.png
8	Wolf Cap	1	14	/images/midterm/hats/wolf-cap.png	https://i.ibb.co/l2nWMW/wolf-cap.png
9	Blue Snapback	1	16	/images/midterm/hats/blue-snapback.png	https://i.ibb.co/X2VJP2W/blue-snapback.png
10	Black Jean Shearling	2	125	/images/midterm/jackets/black-shearling.png	https://i.ibb.co/XzclL5/black-shearling.png
11	Blue Jean Jacket	2	90	/images/midterm/jackets/blue-jean-jacket.png	https://i.ibb.co/mJSvz2/blue-jean-jacket.png
12	Grey Jean Jacket	2	90	/images/midterm/jackets/grey-jean-jacket.png	https://i.ibb.co/N71K1M/grey-jean-jacket.png

=> update and delete constraints of the foreign key

The screenshot shows the pgAdmin 4 interface with the same setup as the previous screenshot. The 'Create - Foreign key' dialog box is open, and the 'On update' dropdown is set to 'CASCADE' and the 'On delete' dropdown is set to 'SET NULL', both highlighted with red boxes. The 'Data Output' pane shows the same data from the 'shop2\_44' table.

=> Chrome, show /api/shop\_xx/womens with code (you need to use last two digits of your id)

```

    {
      "cid": 4,
      "cname": "womens",
      "size": "large",
      "image_url": "https://i.ibb.co/GCCdy8t/womens.png",
      "remote_image_url": "/images/midterm/homepage/womens.png",
      "link_url": "/demo/shop_xx/node/womens",
      "pid": 23,
      "pname": "Blue Tanktop",
      "cat_id": 4,
      "price": 25,
      "img_url": "/images/midterm/womens/blue-tank.png",
      "remote_img_url": "https://i.ibb.co/7CQVJNm/blue-tank.png"
    },
    {
      "cid": 4,
      "cname": "womens",
      "size": "large",
      "image_url": "https://i.ibb.co/GCCdy8t/womens.png",
      "remote_image_url": "/images/midterm/homepage/womens.png",
      "link_url": "/demo/shop_xx/node/womens",
      "pid": 24,
      "pname": "Floral Blouse",
      "cat_id": 4,
      "price": 20,
      "img_url": "/images/midterm/womens/floral-blouse.png",
      "remote_img_url": "https://i.ibb.co/4NzD0Km/floral-blouse.png"
    },
    {
      "cid": 4,
      "cname": "womens",
      "size": "large",
      "image_url": "https://i.ibb.co/GCCdy8t/womens.png",
      "remote_image_url": "/images/midterm/homepage/womens.png",
      "link_url": "/demo/shop_xx/node/womens",
      "pid": 25,
      "pname": "Floral Dress",
      "cat_id": 4,
      "price": 80,
      "img_url": "/images/midterm/womens/floral-skirt.png",
      "remote_img_url": "https://i.ibb.co/KV18Ysr/floral-skirt.png"
    },
    {
      "cid": 4,
      "cname": "womens",
      "size": "large",
      "image_url": "https://i.ibb.co/GCCdy8t/womens.png",
      "remote_image_url": "/images/midterm/homepage/womens.png",
      "link_url": "/demo/shop_xx/node/womens",
      "pid": 26,
      "pname": "Red Dots Dress",
      "cat_id": 4,
      "price": 80,
      "img_url": "/images/midterm/womens/red-polka-dot-dress.png",
      "remote_img_url": "https://i.ibb.co/3BN1bh/red-polka-dot-dress.png"
    },
    {
      "cid": 4,
      "cname": "womens",
      "size": "large",
    }
  ]
}
  
```

=> Chrome, show /api/shop\_xx/mens with code (you need to use last two digits of your id)

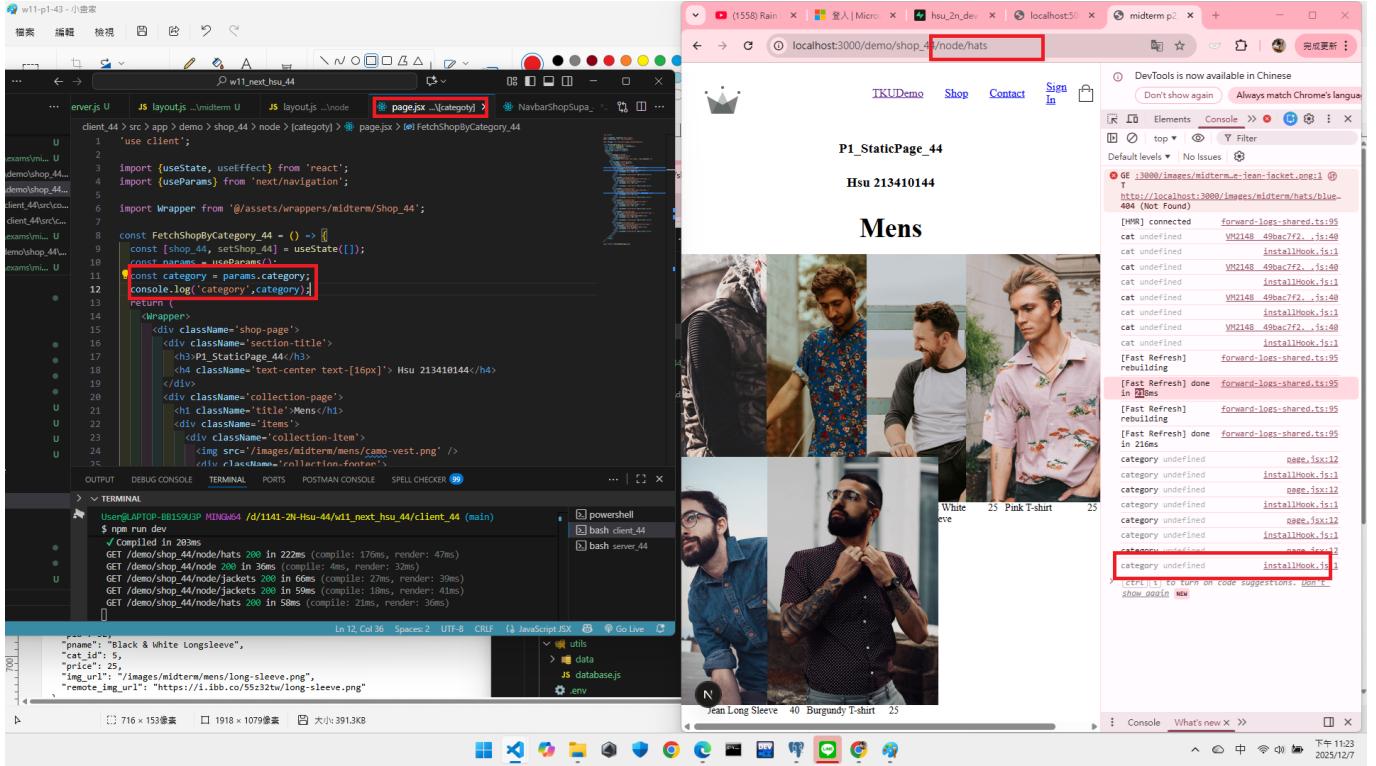
```

    {
      "cid": 5,
      "cname": "mens",
      "size": "large",
      "image_url": "https://i.ibb.co/R7QvBrQ/mens.png",
      "remote_image_url": "/images/midterm/homepage/mens.png",
      "link_url": "/demo/shop_xx/node/mens",
      "pid": 30,
      "pname": "Camo Down Vest",
      "cat_id": 5,
      "price": 325,
      "img_url": "/images/midterm/mens/camo-vest.png",
      "remote_img_url": "https://i.ibb.co/x50T3Y/camo-vest.png"
    },
    {
      "cid": 5,
      "cname": "mens",
      "size": "large",
      "image_url": "https://i.ibb.co/R7QvBrQ/mens.png",
      "remote_image_url": "/images/midterm/homepage/mens.png",
      "link_url": "/demo/shop_xx/node/mens",
      "pid": 31,
      "pname": "Floral V-shirt",
      "cat_id": 5,
      "price": 20,
      "img_url": "/images/midterm/mens/floral-shirt.png",
      "remote_img_url": "https://i.ibb.co/qfQ7SQZ/floral-shirt.png"
    },
    {
      "cid": 5,
      "cname": "mens",
      "size": "large",
      "image_url": "https://i.ibb.co/R7QvBrQ/mens.png",
      "remote_image_url": "/images/midterm/homepage/mens.png",
      "link_url": "/demo/shop_xx/node/mens",
      "pid": 32,
      "pname": "Black & White Longsleeve",
      "cat_id": 5,
      "price": 25,
      "img_url": "/images/midterm/mens/long-sleeve.png",
      "remote_img_url": "https://i.ibb.co/h5z32t/wlong-sleeve.png"
    },
    {
      "cid": 5,
      "cname": "mens",
      "size": "large",
      "image_url": "https://i.ibb.co/R7QvBrQ/mens.png",
      "remote_image_url": "/images/midterm/homepage/mens.png",
      "link_url": "/demo/shop_xx/node/mens",
      "pid": 33,
      "pname": "Pink T-shirt",
      "cat_id": 5,
      "price": 25,
      "img_url": "/images/midterm/mens/pink-shirt.png",
      "remote_img_url": "https://i.ibb.co/vmBLB/pink-shirt.png"
    },
    {
      "cid": 5,
      "cname": "mens",
      "size": "large",
    }
  ]
}
  
```

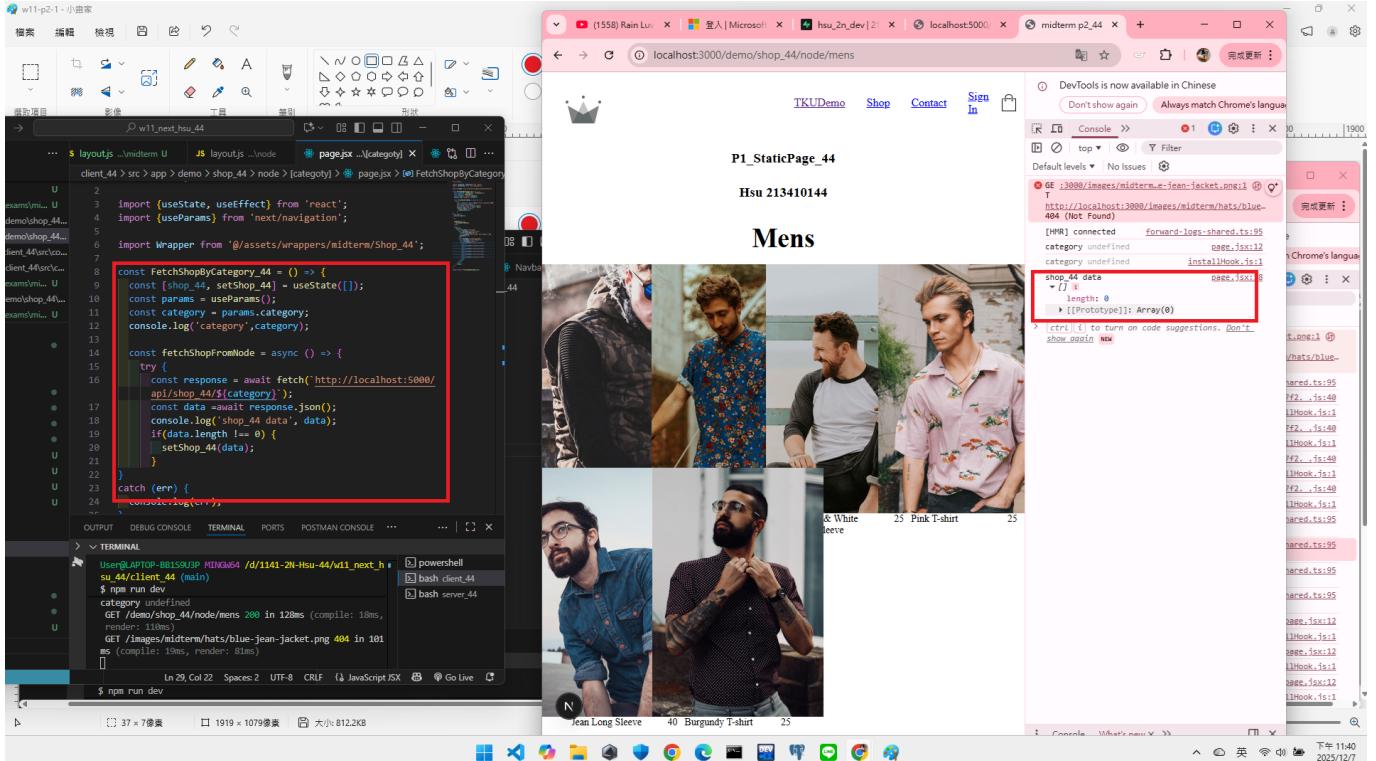
f4417a3 213410144      Wed Dec 10 20:19:34 2025 +0800    W11-P1: Implement route  
 /api/shop\_xx/:category in server

W11-P2: Implement /demo/shop\_xx/node and /demo/shop/node/:category in client

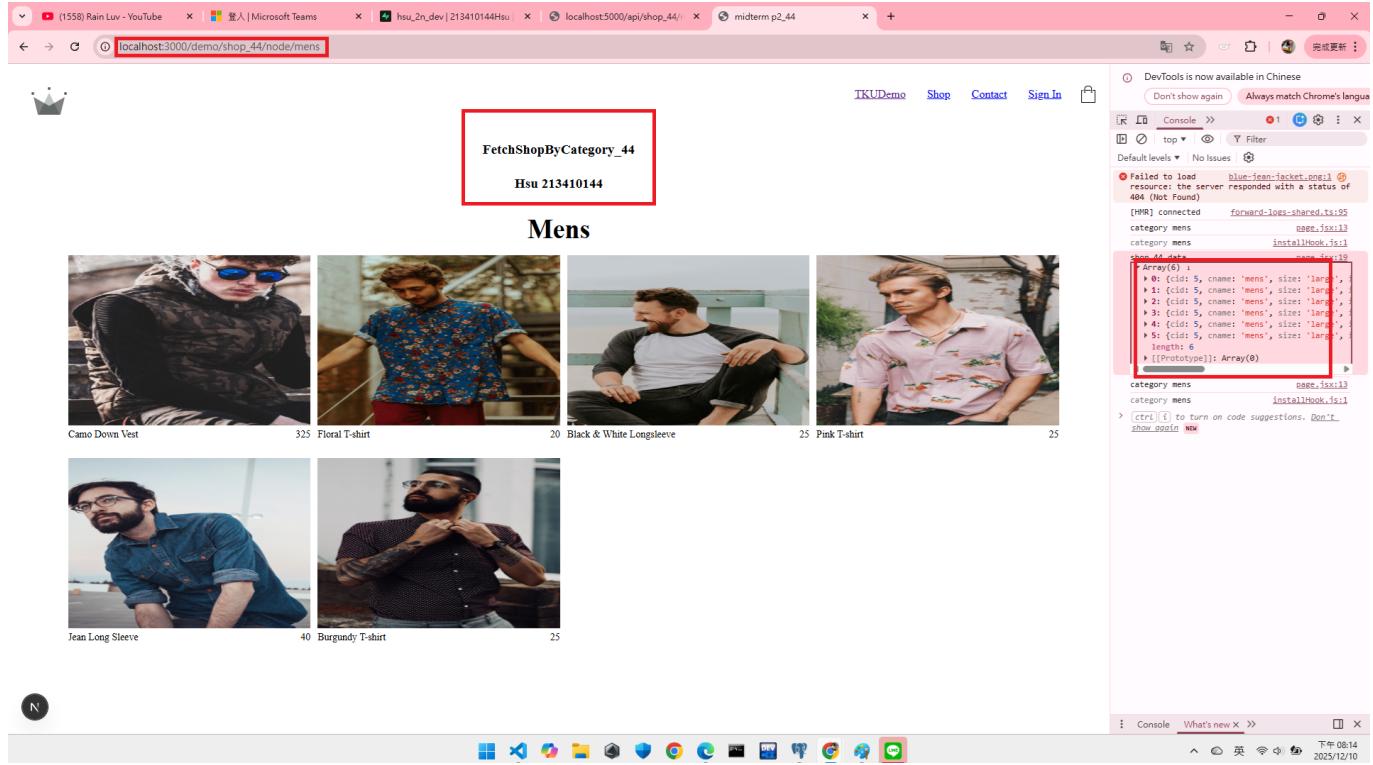
## => show how to get category from params



## => show how to fetch category from the category main page



## => Chrome, show FetchShopByCategory\_xx.jsx by click Mens



## => relevant code for FetchShopByCategory\_xx

```

client_44> src > app > demo > shop_44 > node > [category] > pagejs > FetchShopByCategory_44.js
1  'use client';
2
3  import {useState, useEffect} from 'react';
4  import {useParams} from 'next/navigation';
5  import Product_44 from '@components/midterm/Product_44';
6
7  import Wrapper from '@assets/wrappers/midterm/shop_44';
8
9  const FetchShopByCategory_44 = () => {
10    const [shop_44, setShop_44] = useState([]);
11    const params = useParams();
12    const category = params.category;
13    console.log(category);
14
15    const fetchShopFromNode = async () => {
16      try {
17        const response = await fetch(`http://localhost:5000/api/shop_44/${category}`);
18        const data = await response.json();
19        console.log('shop_44 data', data);
20        if(data.length != 0) {
21          setShop_44(data);
22        }
23      } catch (err) {
24        console.log(err);
25      };
26    };
27
28    useEffect(()=> {
29      fetchShopFromNode();
30    }, []);
31
32    return (
33      <Wrapper>
34        <div className='shop-page'>
35          <div className='section-title'>
36            <h3>FetchShopByCategory_44</h3>
37            <h4>text-center text-[16px]> Hsu 213410144</h4>
38          </div>
39          <div className='collection-page'>
40            <h1>{category}</h1>
41            <div className='items'>
42              {shop_44.map(item => {
43                const {pid, pname, price, img_url} = item;
44                return <Product_44 key={pid}>
45                  <img url={img_url}>
46                    <p>{pname}>
47                      <br/>
48                      <span>{price}</span>
49                  </img>
50                </Product_44>
51              })
52            }
53          </div>
54        </div>
55      </Wrapper>
56    );
57  };
58}
59
60 export default FetchShopByCategory_44;

```

b17f491 213410144      Wed Dec 10 20:21:00 2025 +0800 W11-P2: Implement /demo/shop\_xx/node and /demo/shop/node/:category in client