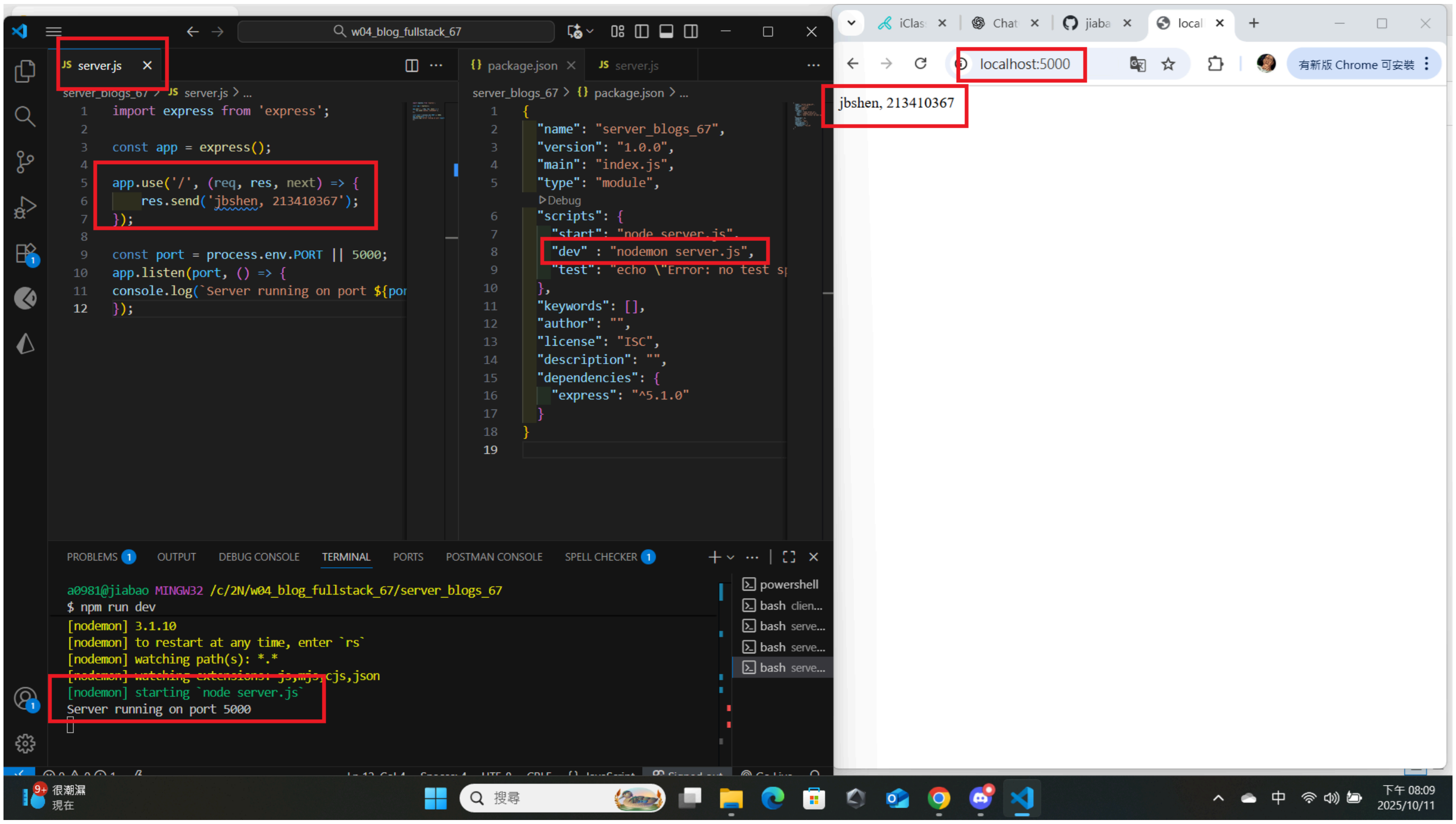
Github URL

W04-P1: Create a express Web server to show your info



```js
import express from 'express';

const app = express();

app.use('/', (req, res, next) => {
    res.send('jbshen, 213410367');
});

const port = process.env.PORT || 5000;
app.listen(port, () => {
console.log(`Server running on port ${por
});
```

```json
{
  "name": "server_blogs_67",
  "version": "1.0.0",
  "main": "index.js",
  "type": "module",
  "scripts": {
    "start": "node server.js",
    "dev" : "nodemon server.js",
    "test": "echo \"Error: no test sp
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": "",
  "dependencies": {
    "express": "^5.1.0"
  }
}
```

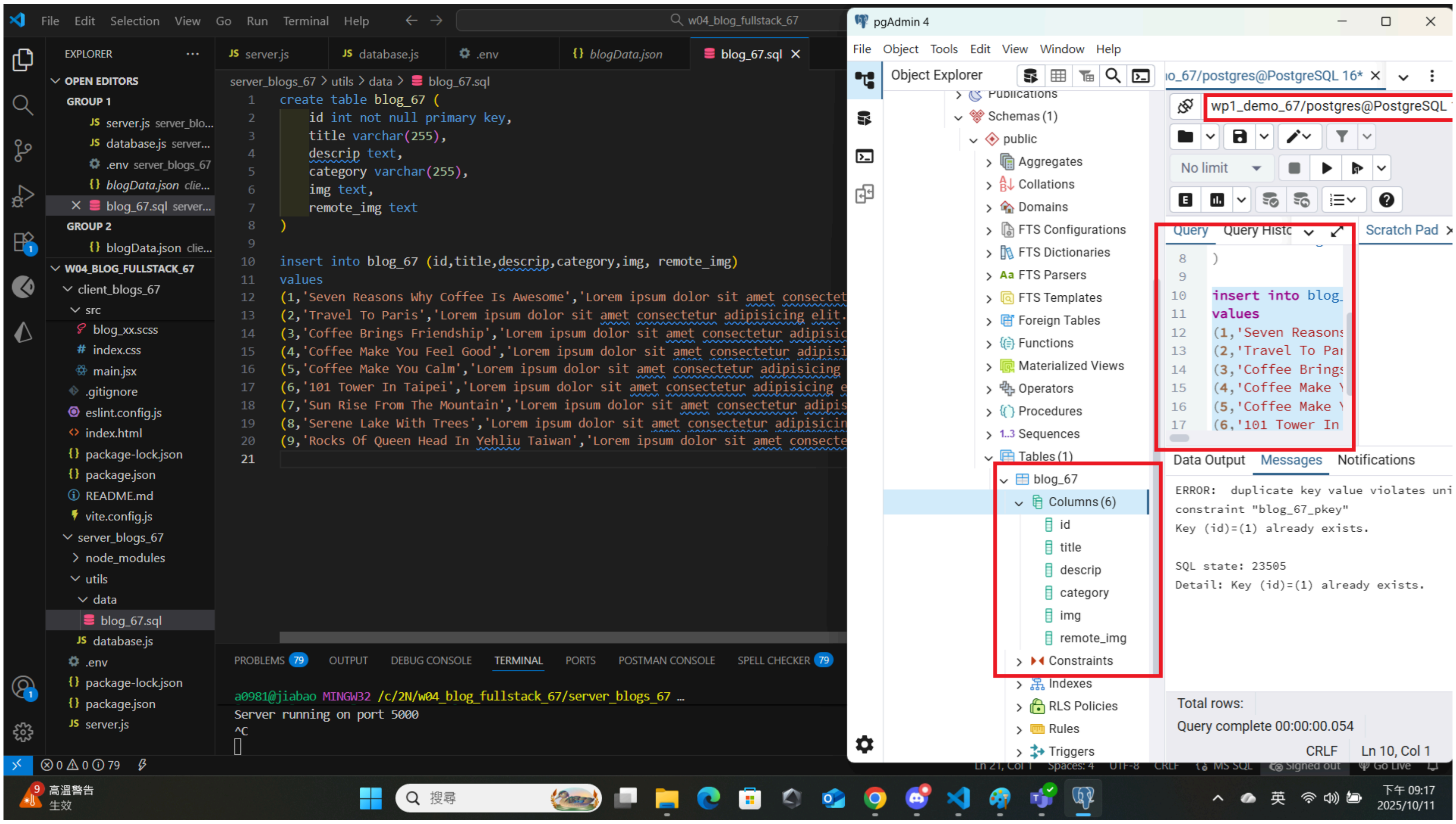
```
a0981@jiabao MINGW32 /c/2N/w04_blog_fullstack_67/server_blogs_67
$ npm run dev
[nodemon] 3.1.10
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node server.js`
Server running on port 5000
```

jbshen, 213410367

```
097ccc1 jiabao721       Sat Oct 11 20:12:43 2025 +0800  W04-P1: Create a express Web server to
```

W04-P2: Create blog_xx table with 3 data, implement route /api/blog_xx to return a json array with 3 data

=> SQL to create blog_xx table and 3 data



server_blogs_67 > utils > data > blog_67.sql

```sql
create table blog_67 (
    id int not null primary key,
    title varchar(255),
    descrip text,
    category varchar(255),
    img text,
    remote_img text
)

insert into blog_67 (id,title,descrip,category,img, remote_img)
values
(1,'Seven Reasons Why Coffee Is Awesome','Lorem ipsum dolor sit amet consectet
(2,'Travel To Paris','Lorem ipsum dolor sit amet consectetur adipisicing elit.
(3,'Coffee Brings Friendship','Lorem ipsum dolor sit amet consectetur adipisic
(4,'Coffee Make You Feel Good','Lorem ipsum dolor sit amet consectetur adipisi
(5,'Coffee Make You Calm','Lorem ipsum dolor sit amet consectetur adipisicing
(6,'101 Tower In Taipei','Lorem ipsum dolor sit amet consectetur adipisicing e
(7,'Sun Rise From The Mountain','Lorem ipsum dolor sit amet consectetur adipis
(8,'Serene Lake With Trees','Lorem ipsum dolor sit amet consectetur adipisicin
(9,'Rocks Of Queen Head In Yehliu Taiwan','Lorem ipsum dolor sit amet consecte
```

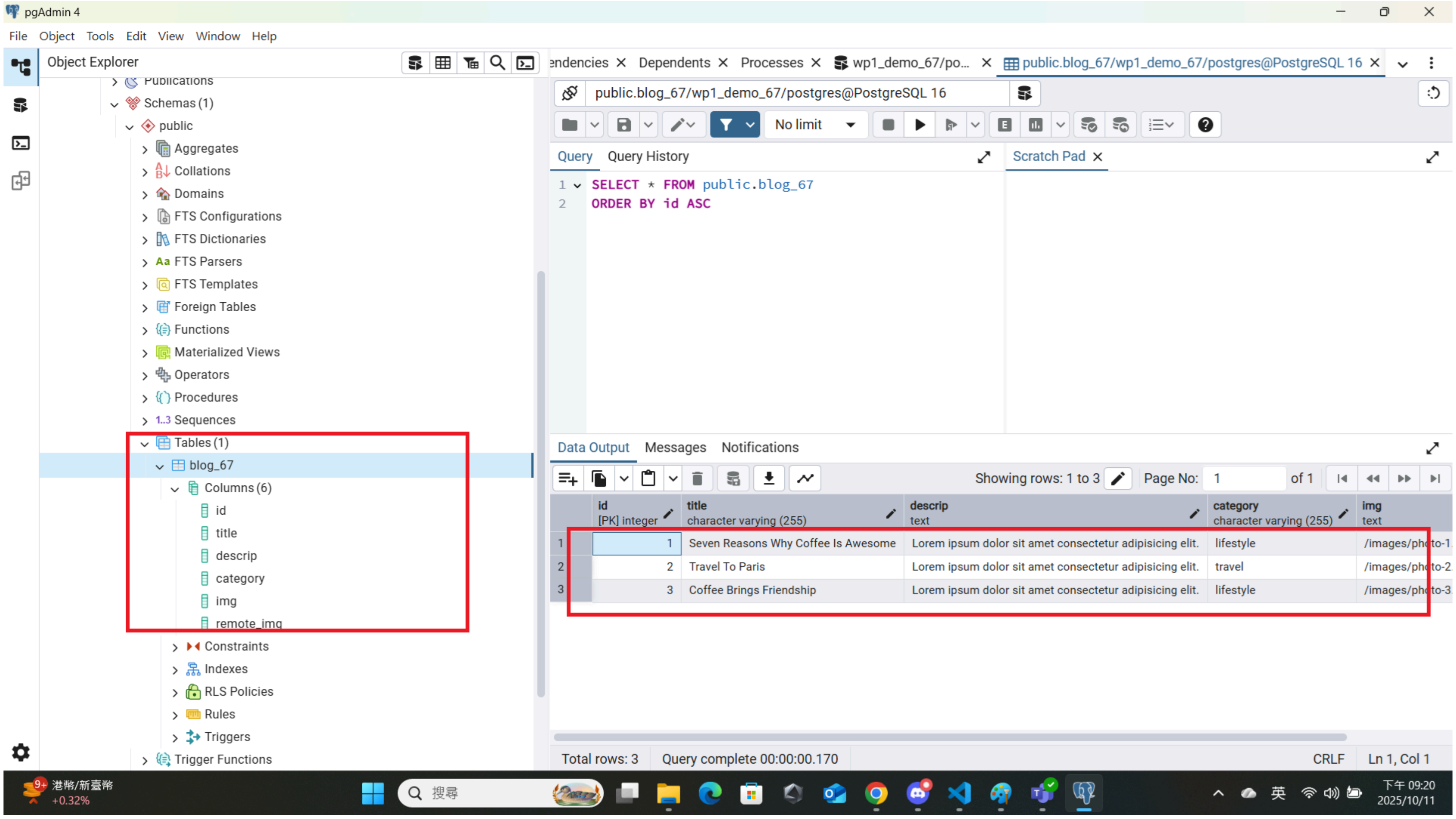
```
a0981@jiabao MINGW32 /c/2N/w04_blog_fullstack_67/server_blogs_67 …
Server running on port 5000
^C
```

```
ERROR:  duplicate key value violates uni
constraint "blog_67_pkey"
Key (id)=(1) already exists.

SQL state: 23505
Detail: Key (id)=(1) already exists.
```

Total rows:
Query complete 00:00:00.054

=> show 3 data



public.blog_67/wp1_demo_67/postgres@PostgreSQL 16

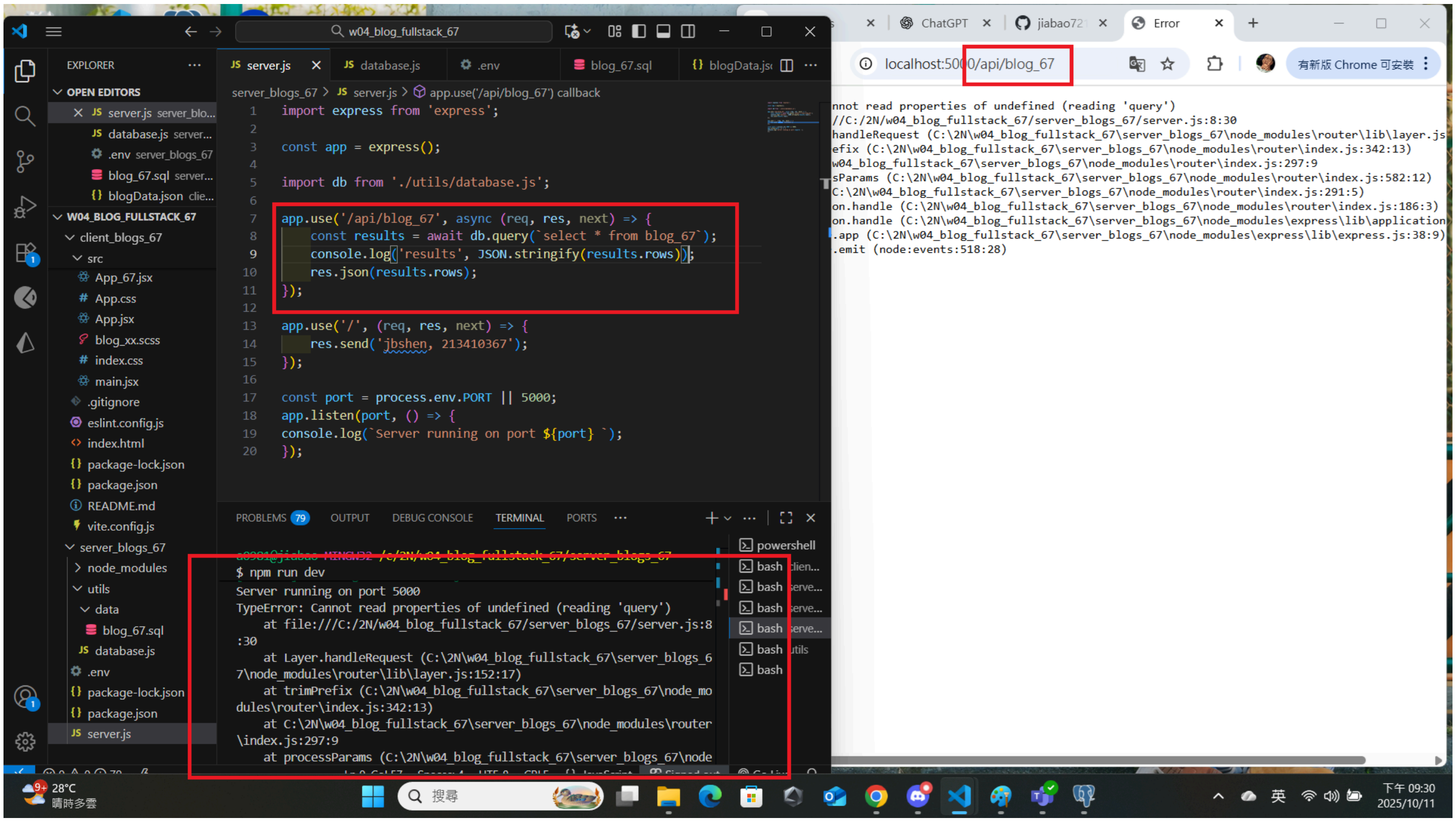
```sql
SELECT * FROM public.blog_67
ORDER BY id ASC
```

Showing rows: 1 to 3 Page No: 1 of 1

	id [PK] integer	title character varying (255)	descrip text	category character varying (255)	img text
1	1	Seven Reasons Why Coffee Is Awesome	Lorem ipsum dolor sit amet consectetur adipisicing elit.	lifestyle	/images/photo-1
2	2	Travel To Paris	Lorem ipsum dolor sit amet consectetur adipisicing elit.	travel	/images/photo-2
3	3	Coffee Brings Friendship	Lorem ipsum dolor sit amet consectetur adipisicing elit.	lifestyle	/images/photo-3

Total rows: 3 Query complete 00:00:00.170

=> implement route /api/blog_xx



server_blogs_67 > server.js > app.use('/api/blog_67') callback

```javascript
import express from 'express';

const app = express();

import db from './utils/database.js';

app.use('/api/blog_67', async (req, res, next) => {
    const results = await db.query(`select * from blog_67`);
    console.log('results', JSON.stringify(results.rows));
    res.json(results.rows);
});

app.use('/', (req, res, next) => {
    res.send('jbshen, 213410367');
});

const port = process.env.PORT || 5000;
app.listen(port, () => {
console.log(`Server running on port ${port} `);
});
```

```
a0981@jiabao MINGW32 /c/2N/w04_blog_fullstack_67/server_blogs_67
$ npm run dev
Server running on port 5000
TypeError: Cannot read properties of undefined (reading 'query')
    at file:///C:/2N/w04_blog_fullstack_67/server_blogs_67/server.js:8
:30
    at Layer.handleRequest (C:\2N\w04_blog_fullstack_67\server_blogs_6
7\node_modules\router\lib\layer.js:152:17)
    at trimPrefix (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_mo
dules\router\index.js:342:13)
    at C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\router
\index.js:297:9
    at processParams (C:\2N\w04_blog_fullstack_67\server_blogs_67\node
```

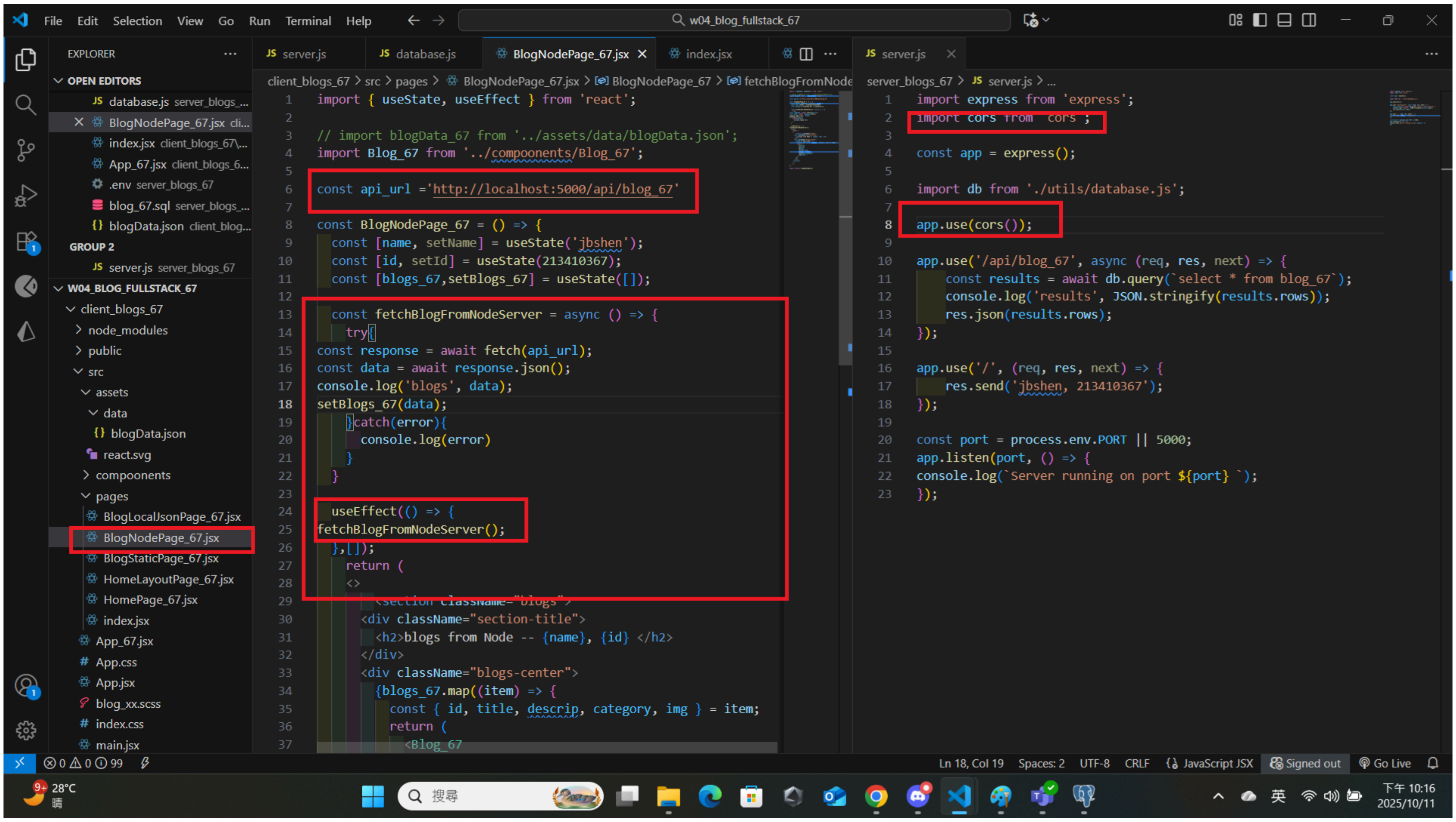
localhost:5000/api/blog_67

```
nnot read properties of undefined (reading 'query')
//C:/2N/w04_blog_fullstack_67/server_blogs_67/server.js:8:30
handleRequest (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\router\lib\layer.js
efix (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\router\index.js:342:13)
w04_blog_fullstack_67\server_blogs_67\node_modules\router\index.js:297:9
sParams (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\router\index.js:582:12)
C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\router\index.js:291:5)
on.handle (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\router\index.js:186:3)
on.handle (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\express\lib\application
.app (C:\2N\w04_blog_fullstack_67\server_blogs_67\node_modules\express\lib\express.js:38:9)
.emit (node:events:518:28)
```

```
d7b859b jiabao721        Sat Oct 11 21:33:05 2025 +0800  W04-P2: Create blog_xx table with 3 dat
```

W04-P3: from client side to get json data from Node

=> modified client and server code


w04_blog_fullstack_67
server.js
database.js
BlogNodePage_67.jsx
index.jsx
client_blogs_67 > src > pages > BlogNodePage_67.jsx > BlogNodePage_67 > fetchBlogFromNode
server_blogs_67 > server.js > ...
Ln 18, Col 19 Spaces: 2 UTF-8 CRLF JavaScript JSX

```jsx
import { useState, useEffect } from 'react';

// import blogData_67 from '../assets/data/blogData.json';
import Blog_67 from '../compoonents/Blog_67';

const api_url ='http://localhost:5000/api/blog_67'

const BlogNodePage_67 = () => {
  const [name, setName] = useState('jbshen');
  const [id, setId] = useState(213410367);
  const [blogs_67,setBlogs_67] = useState([]);

  const fetchBlogFromNodeServer = async () => {
    try{
const response = await fetch(api_url);
const data = await response.json();
console.log('blogs', data);
setBlogs_67(data);
    }catch(error){
      console.log(error)
    }
  }

  useEffect(() => {
fetchBlogFromNodeServer();
  },[]);
    return (
    <>
      <section className="blogs">
      <div className="section-title">
        <h2>blogs from Node -- {name}, {id} </h2>
      </div>
      <div className="blogs-center">
        {blogs_67.map((item) => {
          const { id, title, descrip, category, img } = item;
          return (
            <Blog_67
```

```js
import express from 'express';
import cors from 'cors';

const app = express();

import db from './utils/database.js';

app.use(cors());

app.use('/api/blog_67', async (req, res, next) => {
    const results = await db.query(`select * from blog_67`);
    console.log('results', JSON.stringify(results.rows));
    res.json(results.rows);
});

app.use('/', (req, res, next) => {
    res.send('jbshen, 213410367');
});

const port = process.env.PORT || 5000;
app.listen(port, () => {
console.log(`Server running on port ${port} `);
});
```

=> Chrome, show 3 blogs

```
da4eef9 jiabao721      Sat Oct 11 22:18:19 2025 +0800  W04-P3: from client side to get json dat
```