

#209410181 楊佩慈 #GIT REPO URL: <https://github.com/yangcici1010/112N.git>

###W05-P1: Demo how to use environment variable DATABASE

The screenshot displays a VS Code workspace for a project named 'W05\_81\_BLOG'. The file explorer on the left shows the project structure, with the following files highlighted in red boxes:

- `.env` (in the `views` directory)
- `.gitignore` (in the `views` directory)
- `server.js` (in the `server.js` directory)

The `server.js` file contains the following code, with several lines highlighted in red boxes:

```

1  import express from 'express';
2  import logger from 'morgan';
3  import path from 'path';
4
5  const app = express();
6  import dotenv from 'dotenv';
7  dotenv.config();
8
9  app.use(express.json());
10 app.use(express.urlencoded({ extended: true }));
11 app.use(logger('dev'));
12 app.use(express.static('public'));
13 app.set('view engine', 'ejs');
14 app.use('/', (req, res, next) => {
15   res.render('index', { title: 'Express' });
16 });
17
18 const port = process.env.PORT || 5000;
19 app.listen(port, () => {
20   if (process.env.DATABASE === 'SUPABASE') {
21     console.log('Connecting SUPABASE postgresSQL');
22   } else {
23     console.log('connecting local PostgreSQL');
24   }
25   console.log(`Connecting on port:${port}`);
26 });

```

The `.env` file contains the following environment variables:

```

1 DATABASE=SUPABASE
2 SUPABASE_HOST=
3 SUPABASE_PASSWORD=

```

The `.gitignore` file contains the following entries:

```

1 node_modules
2 .env

```

The terminal output shows the command `npm run dev` being executed, and the output of nodemon starting the server, connecting to SUPABASE PostgreSQL on port 5000.

```

yan10@DESKTOP-165IH50 MINGW64 ~/OneDrive/桌面/w05_81_blog
$ npm run dev

> w05_81_blog@0.0.0 dev
> nodemon server.js

[nodemon] 3.0.1
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting node server.js
Connecting SUPABASE postgresSQL
Connecting on port:5000

```

commit 56110ff8f241b08b3c107b4f05e932ff18580854 Author: PeiCIh Yang

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## ###W05-P2: Using pgAdmin 4 to get table card\_81 from Supabase

The screenshot shows the pgAdmin 4 interface. On the left, the 'Table Editor' for the 'public' schema is open, showing a list of tables. The 'card\_81' table is selected. The main pane displays the table's structure with columns: id (integer), title (varchar), descrip (varchar), and category (varchar). The data is listed in a table with 9 rows. On the right, the 'Query Tool' is open, showing a SQL query: `SELECT * FROM public.card_81 ORDER BY id ASC`. The results of the query are displayed in a table with 9 rows, matching the data in the 'Table Editor'.

commit 8b18d15858f92817731d12b50795ca8ab1983572 Author: PeiCIh Yang  
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## ###W05-P3: Using pgAdmin

The screenshot shows a code editor with two files: `server.js` and `database.js`. The `server.js` file contains the Express.js application logic, including the `app.listen()` callback. The `database.js` file contains the database connection logic, including the `pool.query()` call to fetch data from the `card_81` table. The output of the application is shown in the bottom pane, displaying the JSON data returned by the query.

```
const app = express();
import dotenv from 'dotenv';
dotenv.config();

import db from './database.js';

app.use(express.json());
app.use(express.urlencoded({ extended: true }));
app.use(logger('dev'));
app.use(express.static('public'));
app.set('view engine', 'ejs');
app.use('/', (req, res, next) => {
  res.render('index', { title: 'Express' });
});

const port = process.env.PORT || 5000;
app.listen(port, () => {
  if (process.env.DATABASE === 'SUPABASE') {
    console.log(`Connecting SUPABASE postgresSQL ${db.options}`);
  } else {
    console.log(`connecting local PostgreSQL${db.options}`);
  }
  console.log(`Connecting on port:${port}`);
});
```

```
if (process.env.DATABASE === 'SUPABASE') {
  pool = new Pool({
    host: process.env.SUPABASE_HOST,
    port: '5432',
    user: 'postgres',
    password: process.env.SUPABASE_PASSWORD,
    database: 'postgres'
  });
} else {
  pool = new Pool({
    host: 'localhost',
    port: '5432',
    user: 'postgres',
    password: '0000',
    database: 'wp1_demo_81'
  });
  console.log('local');
}

console.log('connecting to database', pool.options);
const testDB = async () => {
  try {
    const results = await pool.query(`select *from card_81`);
    console.log('json data', JSON.stringify(results.rows));
  } catch (error) {
    console.log(error)
  }
};
testDB();
export default pool;
```

maxLifetimeSeconds: 0,  
idleTimeoutMillis: 10000  
Connecting SUPABASE postgresSQL wp1\_demo\_81  
Connecting on port:5000  
json data [{"id":1,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "lifestyle", "img": "/images/photo-1.jpg", "remote\_url": ""}, {"id":2,"title":"Travel To Paris","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "travel", "img": "/images/photo-2.jpg", "remote\_url": ""}, {"id":3,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "lifestyle", "img": "/images/photo-3.jpg", "remote\_url": ""}, {"id":4,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "lifestyle", "img": "/images/photo-4.jpg", "remote\_url": ""}, {"id":5,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "travel", "img": "/images/photo-5.jpg", "remote\_url": ""}, {"id":6,"title":"Travel To Paris","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "travel", "img": "/images/photo-6.jpg", "remote\_url": ""}, {"id":7,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "lifestyle", "img": "/images/photo-7.jpg", "remote\_url": ""}, {"id":8,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "lifestyle", "img": "/images/photo-8.jpg", "remote\_url": ""}, {"id":9,"title":"Seven Reasons Why Coffee Is Awesome","descrip":"Lorem ipsum dolor, sit amet consectetur adipisicing elit.", "category": "lifestyle", "img": "/images/photo-9.jpg", "remote\_url": ""}]]

commit f0bce22430eb8368d934b0d5e4ff35652a18e3b5 (HEAD -> main, origin/main, origin/HEAD)

Author: PeiCIh Yang <209410181@o365.tku.edu.tw> Date: Sat Oct 14 05:10:11 2023 +0800

###W05-P4: For route /api/card\_81, get Json data from Supabase

The screenshot displays a development environment with two main windows. The left window shows a code editor with the following JavaScript code for an Express.js route:

```
1 import express from 'express';
2 var router = express.Router();
3
4 import db from '../database.js';
5
6 router.get('/', async (req, res, next) => {
7   try {
8     const results = await db.query('select * from card_81');
9     console.log("json data", JSON.stringify(results.rows));
10    res.json(results.rows);
11  } catch (error) {
12    console.log(error);
13  }
14 });
15
16 export default router;
```

The right window shows a web browser at the URL `localhost:5000/api/card_81`, displaying a JSON array of 9 objects. Each object contains fields for `id`, `title`, `description`, `category`, `image`, and `remote_url`. The JSON data is as follows:

```
{
  "id": 1,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-1.jpg",
  "remote_url": ""
},
{
  "id": 2,
  "title": "Travel To Paris",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "travel",
  "img": "/images/photo-2.jpg",
  "remote_url": ""
},
{
  "id": 3,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-3.jpg",
  "remote_url": ""
},
{
  "id": 4,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-4.jpg",
  "remote_url": ""
},
{
  "id": 5,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-5.jpg",
  "remote_url": ""
},
{
  "id": 6,
  "title": "Travel To Paris",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "travel",
  "img": "/images/photo-6.jpg",
  "remote_url": ""
},
{
  "id": 7,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-7.jpg",
  "remote_url": ""
},
{
  "id": 8,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-8.jpg",
  "remote_url": ""
},
{
  "id": 9,
  "title": "Seven Reasons Why Coffee Is Awesome",
  "description": "Lorem ipsum dolor, sit amet consectetur adipisicing elit.",
  "category": "lifestyle",
  "img": "/images/photo-9.jpg",
  "remote_url": ""
}
```

commit f0bce22430eb8368d934b0d5e4ff35652a18e3b5 (HEAD -> main, origin/main, origin/HEAD)

Author: PeiCIh Yang <209410181@o365.tku.edu.tw> Date: Sat Oct 14 05:10:11 2023 +0800