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INT-222

Code:

```
import express from "express";

const app = express();
const port = 3000;

function databaseQuery(id) {
    return new Promise((resolve, reject) => {
        setTimeout(() => {
            console.log(`fetching id: ${id}`);
        }, 2000);
        if(id == 101) {
            resolve({id: 101, product: 'Laptop', price: 1000});
        } else {
            reject('Product not found');
        }
    })
}

app.use(express.json());

app.get("/product/:id", async (req, res) => {
    try {
        const response = await databaseQuery(req.params.id);
        res.json(response);
    } catch (err) {
        res.status(404).json(err);
    }
});

app.listen(port || process.env.PORT, () => {
    console.log(`server is running at http://localhost:${port}`);
});
```

The screenshot shows the Visual Studio Code interface. The left sidebar displays the file structure with 'index.js' selected. The main editor area contains the code for 'index.js'. The terminal tab at the bottom shows the command 'node index.js' being run, followed by several 'Fetching id: 101' messages, indicating the application is running and responding to requests. The status bar at the bottom right shows the current file is 'index.js', the line number is 33, and the column number is 1.

```
index.js
1 import express from "express";
2
3 const app = express();
4 const port = 3000;
5
6 function databaseQuery(id) {
7   return new Promise((resolve, reject) => {
8     setTimeout(() => {
9       console.log(`fetching id: ${id}`);
10    }, 2000);
11    if(id === 101) {
12      resolve({id: 101, product: 'Laptop', price: 1000});
13    } else {
14      reject("Product not found");
15    }
16  })
17}
18
19 app.use(express.json());
20
21 app.get("/product/:id", async (req, res) => {
22   try {
23     const response = await databaseQuery(req.params.id);
24     res.json(response);
25   } catch (err) {
26     res.status(404).json(err);
27   }
28 });
29
30 app.listen(port || process.env.PORT, () => {
31   console.log(`Server is running at http://localhost:${port}`);
32 });
33
```

Code output:



