Oulu University of Applied Sciences   REACT   1(3)
Information Technology
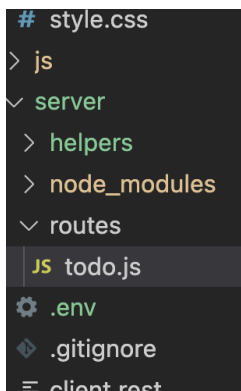Jouni Juntunen   Spring 2024

Exercise. Todo (part 7) – Routing

The backend might contain a lot of endpoints that it has to respond to. In that case, different endpoints should be divided into separate files.

Start by creating a folder under the server folder using the name routes. Add a file under the name todo.js.

Add require statements and assign express.Router to a variable.


```
> routes > JS todo.js > ...
 const express = require('express')
 const { query } = require('../helpers/db.js')

 const todoRouter = express.Router()
```

Add all required routes to this file (i.e. this will be moved from index.js to todo.js). Change the app for the router (in this case name is todoRouter). Remember to export router.

```javascript
const express = require('express')
const { query } = require('../helpers/db.js')

const todoRouter = express.Router()

todoRouter.get("/",async (req,res) => {
  try {
    const result = await query('select * from task')
    const rows = result.rows ? result.rows : []
    res.status(200).json(rows)
  } catch (error) {
    res.statusMessage = error
    res.status(500).json({error: error})
  }
})

todoRouter.post("/new",async (req,res) => {
  try {
    const result = await query('insert into task (descrip
    [req.body.description])
    res.status(200).json({id:result.rows[0].id})
  } catch (error) {
    console.log(error)
    res.statusMessage = error
    res.status(500).json({error: error})
  }
})

todoRouter.delete("/delete/:id",async(req,res)=> {
  const id = Number(req.params.id)
  try {
```

Code on index.js is simplified a lot since all the routes and related code is moved into todo.js. Index.js now basically starts the server and delegates all calls to todoRouter. By separating functionality into different files, it is easier to develop and maintain your code (and the principle is called separation of concerns). It would get really messy if all code were implemented on a single file (index.js).

```javascript
require('dotenv').config()
const express = require('express')
const cors = require('cors')
const { todoRouter } = require('./routes/todo.js')

const app = express()
app.use(cors())
app.use(express.json())
app.use(express.urlencoded({extended: false}))
app.use('/',todoRouter)

const port = process.env.PORT

app.listen(port)
```