BE NodeJS

Tugas: Routing Rest API

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Soal:

- 1. Buatlah route GET yang mengembalikan daftar semua kategori produk dalam aplikasi e-commerce Anda. Anda bisa asumsikan data kategori disimpan dalam array seperti ini: [{ id: 1, name: 'Elektronik' }, { id: 2, name: 'Perabotan' }].
- 2. Buatlah route GET yang mengembalikan detail kategori berdasarkan ID. Anda bisa menggunakan array kategori dari soal sebelumnya.
- 3. Buatlah route POST yang menambahkan kategori baru ke array. Kategori baru harus diberikan melalui body request dalam bentuk JSON, seperti ini: { "name": "Pakaian" }.
- 4. Buatlah route PUT yang memperbarui kategori berdasarkan ID. Data kategori baru harus diberikan melalui body request dalam bentuk JSON, seperti ini: { "name": "Pakaian dan Aksesoris" }.
- 5. Buatlah route DELETE yang menghapus kategori berdasarkan ID.
- 6. Buatlah route GET dengan query string untuk mencari produk berdasarkan nama. Anda bisa asumsikan data produk disimpan dalam array seperti ini: [{ id: 1, name: 'Laptop', category: 'Elektronik' }, { id: 2, name: 'Meja', category: 'Perabotan' }].
- 7. Buatlah route GET dengan parameter dan query string untuk mendapatkan produk dalam kategori tertentu dan mencari berdasarkan nama. Anda bisa menggunakan array produk dari soal sebelumnya.

Jawab:

1. Source Code & Output Get Category

```
http://localhost:3000/category
app.get("/category", (req: Request, res: Response) => {
                                                                          Params Authorization Headers (6) Body Scripts Set
        res.status(200).json({
             message: "Category has fetched",
                                                                                 Key
             data: db,
    } catch (error) {
        res.status(500).json({
                                                                         Body Cookies Headers (7) Test Results
             message: "error",
             data: "Something wrong happen",
                                                                           Pretty
                                                                                           "id": 1,
"name": "Elektronik"
                                                                                           "id": 3,
"name": "Pakaian bekas"
                                                                                           "id": 4,
"name": "Pakaian bekass"
```

2. Source Code & Output Get Category By Id

3. Source Code & Output Post Category

```
// Nomor 3 : Buatlah route POST yang menambahkan kategori baru ke array. Kategori baru haru app.post("/category", (reg: Request, res: Response) => {
    try {
        const name = req.body.name
        const cate(x = db.find(item => item.name === name)
        let category = null

        if(!check) {
        category = {
            id: db.length + 1,
            name = name }
        }
        db.push(category)
    }

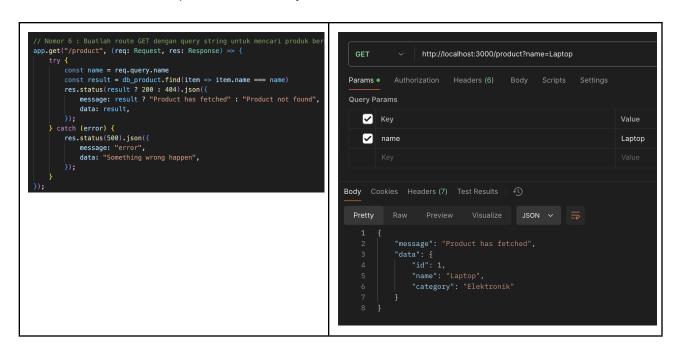
    res.status(!check ? 201 : 400).json({
        message: !check ? "Category has been created" : "Category name has been used",
        data: category,
        });
    catch (error) {
        res.status(!s00).json({
        message: "category has been created" : "Category name has been used",
        data: "Something wrong happen",
        });
    });
});
```

4. Source Code & Output Put Category By Id

```
app.put("/category/:id", (req: Request, res: Response) => {
                                                                    PUT
                                                                                     http://localhost:3000/category/2
       const id = parseInt(req.params.id)
                                                                                            Headers (8)
                                                                                                           Body •
       const name = req.body.name
       const check_name = db.find(item => item.name === name)
       const check_id = db.findIndex(item => item.id === id)
                                                                            of form-data ox-www-form-urlencoded oraw
       let category = null
       if(check_name){
                                                                              "name": "{{$randomProductMaterial}} New"
           res.status(409).json({
               message: "Category name has been used",
               data: category,
                                                                 Body Cookies Headers (7) Test Results
           if(check_id == -1){
                                                                   Pretty
                                                                                                               JSON ~
               res.status(404).json({
                   message: "Category not found",
                   data: category,
                                                                              "message": "Category has been updated",
               db[check_id].name = name
                                                                                  "name": "Perabotan Rumah Tangga"
               res.status(200).json({
                  message: "Category has been updated",
                  data: db[check_id],
       res.status(500).json({
           message: "error",
           data: "Something wrong happen",
```

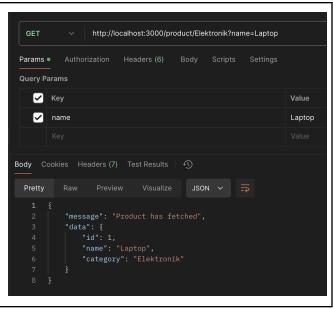
5. Source Code & Output Delete Category By Id

6. Source Code & Output Get Product By Name



7. Source Code & Output Get Product By Name & Category

```
// Nomor 7 : Buatlah route GET dengan parameter dan query string untuk mendapatkan produk dalam k
app.get("/product/:category", (req: Request, res: Response) => {
    try {
        const category = req.params.category
        const result = do_product.find(item => item.name === name & item.category === category)
        res.status(result 7 200 : 4941.json({
            message: result 7 "Product has fetched" : "Product not found",
            });
    } catch (error) {
        res.status(S00).json({
            message: "error",
            data: "Something wrong happen",
        });
    });
}
```



Repository:

- Github https://github.com/FlazeFy/sanbercode-nodejs-xpress/tree/main/tugas-routing-rest-api
- Postman Documentation https://documenter.getpostman.com/view/18882129/2sAY517fPm

Refrensi:

- Materi Pekan 2.1 Framework Express JS

 https://sanbercode.com/bootcamp/class/684/materi/2-1-framework-expressjs/dc0618b7-fd52-4eec-a57

 8-5ed88c4d5b3c
- Materi Pekan 2.2 Routing Rest API

 https://sanbercode.com/bootcamp/class/684/materi/routing-rest-api/de70a7be-9056-40e0-bed0-c280c6bc1 de0