BE NodeJS

Tugas: MongoDB

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Soal:

- 1. Buatlah fitur CRUD seperti Product untuk data Category
- 2. Pastikan data Product mempunyai relasi dengan Category, tutorial tentang relasi mongoose bisa kamu baca di sini
- 3. Pastikan semua endpoint CRUD data Category bisa digunakan

Jawab:

1. Source Code

```
router.route("/categories")

get(categoriesController.findAll)
    .post(categoriesController.create);

router.route("/categories/:id")
    .get(categoriesController.findOne)
    .put(categoriesController.update)
    .delete(categoriesController.delete);
```

Gambar 1.1 Route Categories

```
export default {
 async create(req: Request, res: Response) {
      const result = await CategoriesModel.create(req.body);
      res.status(201).json({
       data: result,
       message: "Success create category",
    } catch (error) {
     const err = error as Error;
      res.status(500).json({
       data: err.message,
       message: "Failed create category",
 async findAll(req: Request, res: Response) {
     const result = await CategoriesModel.find().populate("products");
     res.status(200).json({
       data: result,
       message: "Success get all categorys",
    } catch (error) {
     const err = error as Error;
     res.status(500).json({
       data: err.message,
       message: "Failed get all categorys",
 async findOne(req: Request, res: Response) {
     const result = await CategoriesModel.findOne({
       _id: req.params.id,
      res.status(200).json({
       data: result,
       message: "Success get one category",
   } catch (error) {
     const err = error as Error;
      res.status(500).json({
       data: err.message,
       message: "Failed get one category",
```

Gambar 1.2 Controller Create, Read

```
async update(req: Request, res: Response) {
    const result = await CategoriesModel.findOneAndUpdate(
     { _id: req.params.id },
     req.body,
       new: true,
    res.status(200).json({
     data: result,
     message: "Success update category",
  } catch (error) {
    const err = error as Error;
    res.status(500).json({
     data: err.message,
     message: "Failed update category",
   });
async delete(req: Request, res: Response) {
   const result = await CategoriesModel.findOneAndDelete({
    _id: req.params.id,
    res.status(200).json({
     data: result,
     message: "Success delete category",
  } catch (error) {
    const err = error as Error;
    res.status(500).json({
     data: err.message,
     message: "Failed delete category",
```

Gambar 1.3 Controller Update, Delete

2. Source Code & DB

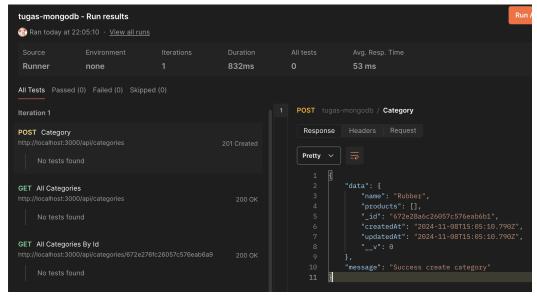


Gambar 2.1 Evidence Database MongoDB

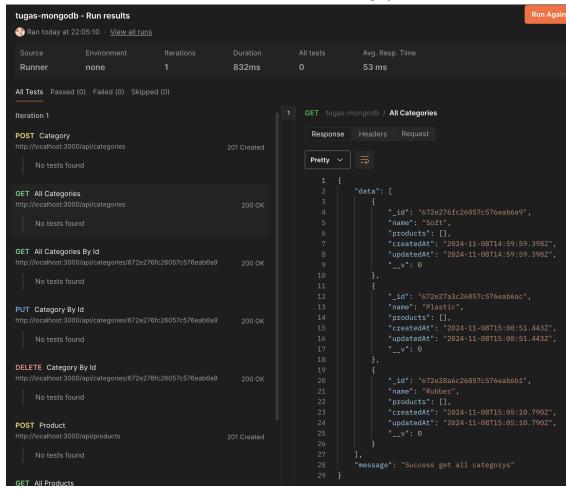
```
const ProductsSchema = new Schema(
   name: {
     type: String,
     required: true,
   description: {
     type: String,
     required: true,
   images: {
     type: [String],
     required: true,
   price: {
     type: Number,
     required: true,
   qty: {
     type: Number,
     required: true,
   categoryId: {
    type: mongoose.Schema.Types.ObjectId,
     ref: "Categories",
   timestamps: true,
const ProductsModel = mongoose.model("Products", ProductsSchema);
export default ProductsModel;
```

Gambar 2.2 Model Products & Categories

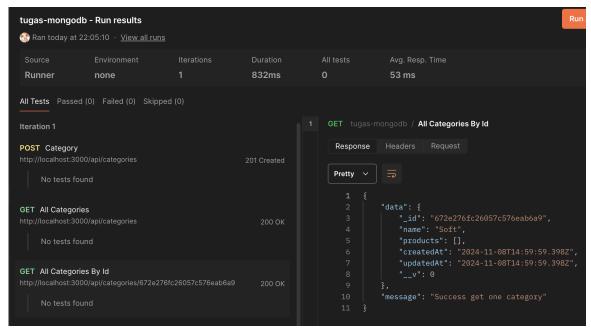
3. Test Endpoint Runner Postman



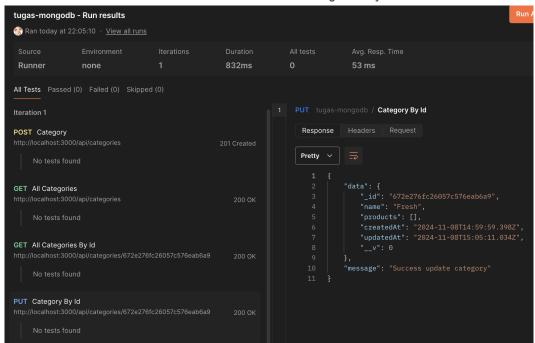
Gambar 3.1 Test Result Post Category



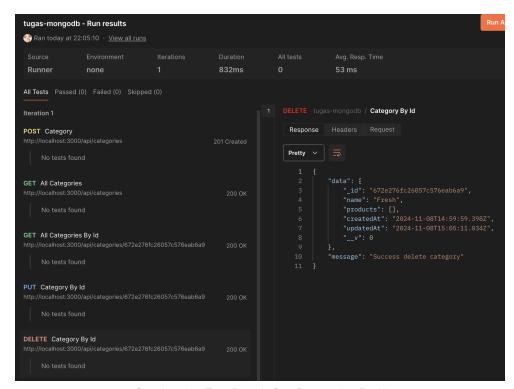
Gambar 3.2 Test Result Get All Categories



Gambar 3.3 Test Result Get Categories By Id



Gambar 3.4 Test Result Put Categories By Id



Gambar 3.5 Test Result Get Categories By Id

Repository:

- Github https://github.com/FlazeFy/sanbercode-nodejs-xpress/tree/main/tugas-mongodb
- Postman Documentation https://documenter.getpostman.com/view/18882129/2sAY52beJ8

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

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- Materi Pekan 2.3 Middleware Express

 https://sanbercode.com/bootcamp/class/684/materi/2-3-middleware-expressjs/c33672de-a33d-4916-b07c-9221b9e836b5
- Materi Pekan 2.4 Database MongoDB
 https://sanbercode.com/bootcamp/class/684/materi/2-4-database-mongodb/ae319daf-6cf4-4282-8fe2-0c21
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