BE NodeJS

Tugas: Service Pattern

Leonardho R. Sitanggang

Soal:

Buatlah pola struktur kode file dan folder yang sama untuk modul Categories Simpan seluruh latihan ini dalam satu folder

- 1. Kemudian, masukan folder tersebut ke <u>repository GitHub</u>
- 2. Boleh simpan folder latihan ini di dalam repository latihan sebelumnya
- 3. Nama folder-nya adalah **tugas-service-pattern**
- 4. Kumpulkan link repository nya saja

Jawab:

Source Code Service

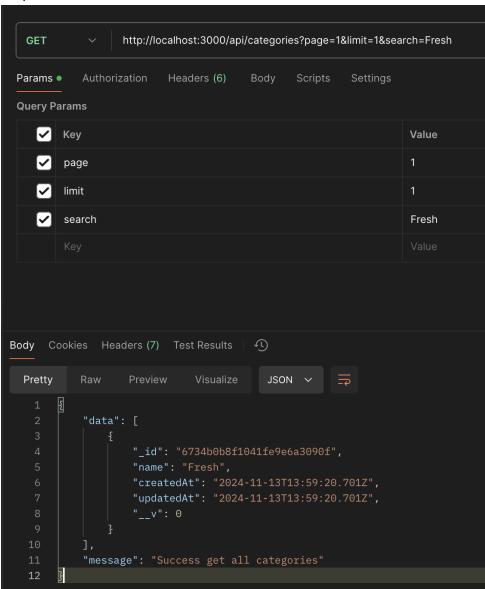
```
tugas-service-pattern \gt src \gt services \gt TS categories.services.ts \gt ...
      import CategoriesModel, { Category } from "../models/categories.model";
      export const create = async (payload: Category): Promise<Category> => {
       const result = await CategoriesModel.create(payload);
        return result;
      export interface IFindAll {
        query?: unknown;
       limit: number;
       page: number;
      export const findAll = async (
      query: any,
       limit: number = 10,
       page: number = 1
      ): Promise<Category[]> => {
       const result = await CategoriesModel.find(query)
          .limit(limit)
          .skip((page - 1) * limit)
          .sort({ createdAt: -1 });
      export const findOne = async (id: string): Promise<Category | null> => {
       const result = await CategoriesModel.findById(id);
      export const update = async (
       id: string,
        payload: Category
      ): Promise<Category | null> => {
       const result = await CategoriesModel.findOneAndUpdate({ _id: id }, payload, {
          new: true,
       export const remove = async (id: string): Promise<Category | null> => {
       const result = await CategoriesModel.findOneAndDelete({
         _id: id,
       };
```

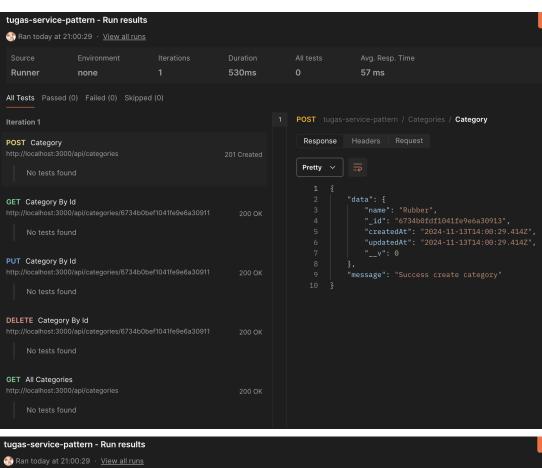
Source Code Controller

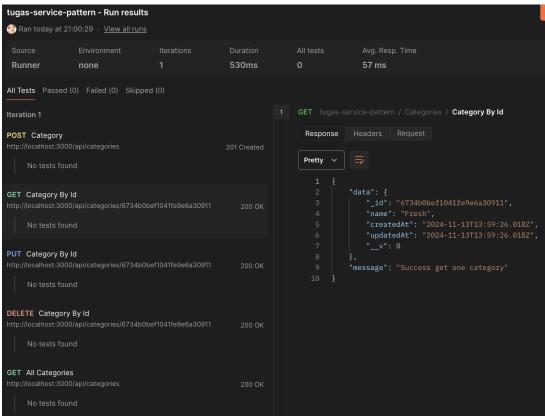
```
import {
       create,
       findAll.
       findOne,
       update,
       remove.
     } from "../services/categories.services"
     import { IPaginationQuery } from "../utils/interfaces";
     export default {
       async create(req: Request, res: Response) {
         try {
           const result = await 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 {
             limit = 10,
                                         (alias) interface IPa
             page = 1,
                                         import IPaginationQue
             search,
           } = req.query as unknown as IPaginationQuery;
           const query = {}
           if(search){
             Object.assign(query, {
39
             name: {{sregex: search, soptions:"i"}}
           const result = await findAll(query,limit,page);
           res.status(200).json({
             data: result,
             message: "Success get all categories",
         } catch (error) {
           const err = error as Error;
           res.status(500).json({
             data: err.message,
             message: "Failed get all categories",
       async findOne(req: Request, res: Response) {
           const result = await findOne(
             req.params?.id,
```

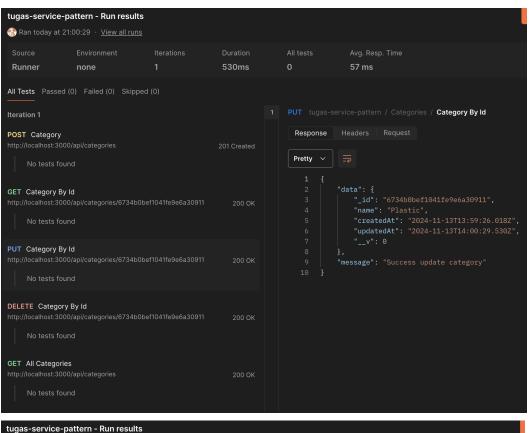
```
try {
            const result = await findOne(
              req.params?.id,
            res.status(200).json({
              data: result,
              message: "Success get one category",
            });
          } catch (error) {
            const err = error as Error;
            res.status(500).json({
              data: err.message,
              message: "Failed get one category",
            });
        },
        async update(req: Request, res: Response) {
          try {
            const result = await update(req.params?.id, req.body);
            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 remove(req.params?.id);
            res.status(200).json({
              data: result,
              message: "Success delete category",
            }):
          } catch (error) {
            const err = error as Error;
            res.status(500).json({
100
              data: err.message,
              message: "Failed delete category",
            });
      };
```

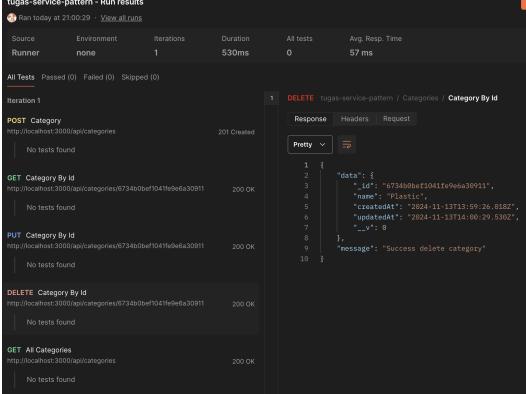
Output

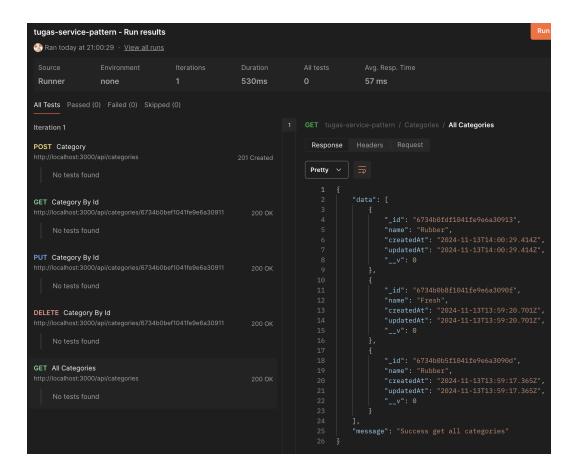












Repository:

- Github https://github.com/FlazeFv/sanbercode-nodeis-xpress/tree/main/tugas-service-pattern
- Postman Documentation https://documenter.getpostman.com/view/18882129/2sAY55ZHm1

Refrensi:

- Materi Service Pattern

<u>https://docs.google.com/document/d/1wR2tuWPOfQG7-IXhAQ5X7zp6JOJIwcTiFgzfP6e_sGM/edit?tab</u>

<u>=t.0</u>