Next.js + Mongoose + MongoDB

Folder Structure

```code
database
    |-connection
        |-connection.js
    |-controller
        |-productController.js
        |-userController.js
    |-model
        |-productModel.js
        |-userModel.js
pages
    |-api
        |-products
            |-[productId].js
            |-index.js
        |-users
            |-[userId].js
            |-index.js
```

database/connection/connection.js

```js
const {default: mongoose} = require("mongoose");

mongoose.set('strictQuery', true);

const connectMongo = async () => {
    try {
        const {connection} = await
mongoose.connect(process.env.MONGO_URI);
        if(connection.readyState === 1) {
            console.log("Database Connected!");
        }
    } catch(error) {
        console.log(error.message);
        console.log("Database Not Connected!");
    }
```

```
};

export default connectMongo;
```
database/controller/productController.js
```js
import Products from "../model/productModel";

// http://localhost:3000/api/products
export const getProducts = async (req, res) => {
    try {
        const products = await Products.find({});
        if(!products) {
            return res.json({error: 'Data Not Found!'});
        }
        res.json(products);
    } catch(error) {
        res.json({error: 'Error While Fetching Data!'});
    }
};
// Same as userController.js
```
database/controller/userController.js
```js
import Users from "../model/userModel";

// http://localhost:3000/api/users
export const getUsers = async (req, res) => {
    try {
        const users = await Users.find({});
        if(!users) {
            return res.json({error: 'Data Not Found!'});
        }
        return res.json(users);
    } catch(error) {
        return res.json({error: 'Error While Fetching Data!'});
    }
};
```

```
// http://localhost:3000/api/users/_id
export const getUser = async (req, res) => {
    try {
        const {userId} = req.query;
        if(!userId) {
            return res.json({error: 'User Id Not Found!'});
        }
        const user = await Users.findById(userId);
        return res.json(user);
    } catch(error) {
        return res.json({error: 'Error While Fetching Data!'});
    }
};

// http://localhost:3000/api/users
export const postUser = async (req, res) => {
    try {
        const formData = req.body;
        if(!formData) {
            return res.json({error: "Form Data Not Provided!"});
        }
        Users.create(formData, (err, data) => {
            if(!err) {
                return res.json(data);
            }
        });
    } catch(error) {
        return res.json(error);
    }
};

// http://localhost:3000/api/users/?userId=_id
export const putUser = async (req, res) => {
    try {
        const {userId} = req.query;
        const formData = req.body;
        if(userId && formData) {
```

```
            const user = await Users.findByIdAndUpdate(userId, formData);
            return res.json(user);
        }
        return res.json({error: "User Not Selected."});
    } catch(error) {
        return res.json({error: "Error While Updating the Data."});
    }
};

// http://localhost:3000/api/users/?userId=_id
export const deleteUser = async (req, res) => {
    try {
        const {userId} = req.query;
        if(userId) {
            const user = await Users.findByIdAndDelete(userId);
            return res.json(user);
        }
        return res.json({error: "Error While Deleting Data!"});
    } catch(error) {
        return res.json({error: "Error While Updating the Data."});
    }
};
```

database/model/productModel.js

```js
import {model, models, Schema} from "mongoose";

const productSchema = new Schema(
    {
        name: String,
        price: String
    }
);

const Products = models.product || model('product', productSchema);

export default Products;
```

database/model/userModel.js

```js
import {Schema, models, model} from "mongoose";

const userSchema = new Schema(
    {
        name: String,
        email: String,
        password: String
    }
);

const Users = models.user || model('user', userSchema);

export default Users;
```

pages/api/products/index.js

```js
import connectMongo from "@/database/connection/connection";
import {getProducts} from "@/database/controller/productController";

const handler = async (req, res) => {
    connectMongo().catch(() => res.json({error: "Error in the
connection"}));
    const {method} = req;
    switch(method) {
        case 'GET':
            getProducts(req, res);
            break;
        default:
            break;
    }
};

export default handler;
```

pages/api/products/[productId].js

```js
```

```
// Same as [userId].js
```

pages/api/users/index.js

```js
import connectMongo from "@/database/connection/connection";
import {deleteUser, getUsers, postUser, putUser} from
"@/database/controller/userController";

const handler = async (req, res) => {
    connectMongo().catch(() => res.json({error: "Error in the
connection"}));
    const {method} = req;
    switch(method) {
        case 'GET':
            getUsers(req, res);
            break;
        case 'POST':
            postUser(req, res);
            break;
        case 'PUT':
            putUser(req, res);
            break;
        case 'DELETE':
            deleteUser(req, res);
            break;
        default:
            res.json({error: "Notice the method!"});
            break;
    }
};

export default handler;
```

pages/api/users/[userId].js

```js
import connectMongo from "@/database/connection/connection";
import {getUser} from "@/database/controller/userController";
```

```
const handler = async (req, res) => {
    connectMongo().catch(() => res.json({error: "Error in the
connection"}));
    const {method} = req;
    switch(method) {
        case 'GET':
            getUser(req, res);
            break;
        default:
            break;
    }
};

export default handler;
```