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Kelas: 5-A FSWD

Kelompok: 4

Tugas: HomeWork (Week 11)

- **Soal**
 - **Soal Homework**

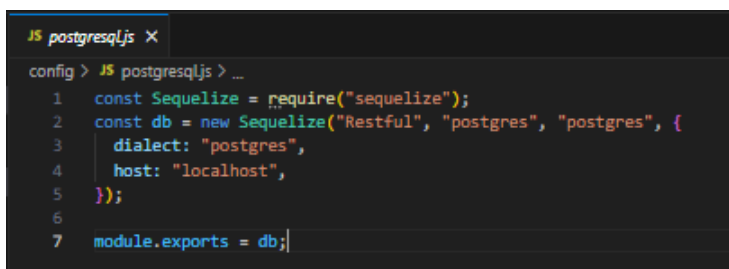
Buatlah project API menggunakan expressjs dan sequelize (postgresql) menggunakan table todo yang berisi field title

Kemudian pastikan terdapat fitur dibawah ini

1. List All Todo
2. Detail Todo
3. Create Todo
4. Delete Todo (Soft Delete)

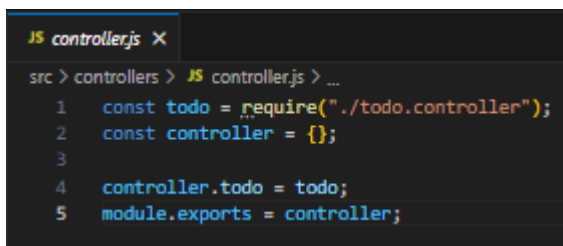
Buatlah semua unit testing untuk masing-masing fitur api (crud unit testing), jalankan api tersebut menggunakan Dockerfile serta Docker Compose dan jalankan CI/CD menggunakan GitLab

- **Jawab**



```
JS postgresql.js X
config > JS postgresql.js > ...
1  const Sequelize = require("sequelize");
2  const db = new Sequelize("Restful", "postgres", "postgres", {
3    dialect: "postgres",
4    host: "localhost",
5  });
6
7  module.exports = db;
```

Gambar diatas adalah untuk menghubungkan ke database dan menggunakan sequelize.



```
JS controller.js X
src > controllers > JS controller.js > ...
1  const todo = require("../todo.controller");
2  const controller = {};
3
4  controller.todo = todo;
5  module.exports = controller;
```

Gambar diatas controllers awal yang nantinya bakal di arahkan ke todo.controller.

```

JS todo.controllers.js X
src > controllers > JS todo.controllers.js > ...
1  const model = require("../models/model");
2  const controller = {};
3
4  controller.getAll = async function (req, res) {
5    try {
6      let todo = await model.todo.findAll();
7      if (todo.length > 0) {
8        res.status(200).json({
9          message: "successfully Get all todo data",
10         data: todo,
11       });
12     } else {
13       res.status(404).json({
14         message: "Data not found",
15         data: [],
16       });
17     }
18   } catch (error) {
19     res.status(404).json({
20       message: error.message,
21     });
22   }
23 };
24
25 controller.getOne = async function (req, res) {
26   try {
27     let todo = await model.todo.findAll({
28       where: {
29         id: req.params.id,
30       },
31     });
32     if (todo.length > 0) {
33       res.status(200).json({
34         message: "Data todo founded",
35         data: todo,
36       });
37     } else {
38       res.status(200).json({
39         message: "data todo not found",
40         data: [],
41       });
42     }
43   } catch (err) {
44     res.status(404).json({

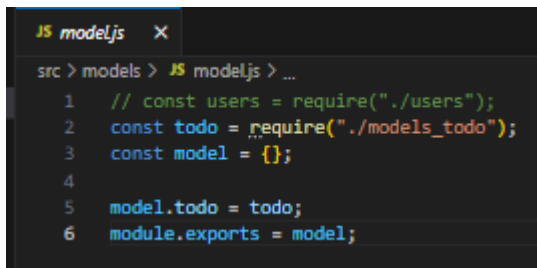
```

```

50 controller.create = async function (req, res) {
51   // console.log(req.file);
52   try {
53     let todo = await model.todo.create({
54       title: req.body.title,
55     });
56     res.status(201).json({
57       message: "Todo added",
58       data: todo,
59     });
60   } catch (err) {
61     res.status(404).json({
62       message: err.message,
63     });
64   }
65 };
66
67 controller.delete = async function (req, res) {
68   try {
69     let todo = await model.todo.destroy({
70       where: {
71         id: req.params.id,
72       },
73     });
74     res.status(200).json({
75       message: "todo data deleted",
76     });
77   } catch (err) {
78     res.status(404).json({
79       message: err.message,
80     });
81   }
82 };
83
84
85 module.exports = controller;

```

Diatas merupakan code dari todo.controller, disini terdapat function untuk meng get semua TODO, dan juga terdapat detail,create dan Delete.

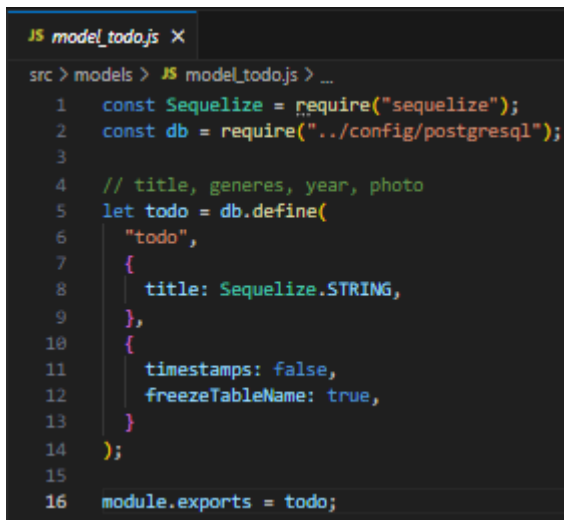


```

JS model.js X
src > models > JS model.js > ...
1 // const users = require("./users");
2 const todo = require("../models_todo");
3 const model = {};
4
5 model.todo = todo;
6 module.exports = model;

```

Gambar diatas itu ada terdapat file model yang di require ke file model_todo.



```

JS model_todo.js X
src > models > JS model_todo.js > ...
1 const Sequelize = require("sequelize");
2 const db = require("../config/postgresql");
3
4 // title, genres, year, photo
5 let todo = db.define(
6   "todo",
7   {
8     title: Sequelize.STRING,
9   },
10  {
11    timestamps: false,
12    freezeTableName: true,
13  }
14 );
15
16 module.exports = todo;

```

Nah file model_todo ini nantinya diarahkan ke folder config di file postgresql.



```

JS todo.js X
src > routes > JS todo.js > ...
1 var express = require("express");
2 var router = express.Router();
3
4 const controllers = require("../controllers/controllers");
5
6 router.get("/", controllers.todo.getAll);
7 router.get("/:id", controllers.todo.getOne);
8 router.post("/", controllers.todo.create);
9 router.delete("/:id", controllers.todo.delete);
10
11 module.exports = router;

```

File diatas adalah route yang nanti nya diarahkan ke dalam file controller.todo dan tertuju ke masing-masing function yang sudah dibuat.

- ❖ Untuk update an laporan terbaru segera saya kirimkan di gdrive dan segera di upload di github.

- **Link Google Drive**

<https://drive.google.com/drive/folders/1u8r-DgRO4tsRX1mgHBAsVLS9Qc4bAPPx?usp=sharing>

- **Link Repo**

<https://github.com/rizkyfarabi03/MSIB-RAKAMIN-Farabi>