







## Tugas

1. Silahkan tambahkan operasi crud pada entitas program\_studi

prodiControllers.js

```

const db = require("../database")

const getAll = (req, res) => {
  const query = "SELECT * FROM `program_studi`"
  db.query(query, [], (err, result) => {

```

```

    if (err) {
      res.status(400).json({
        message: "prodi gagal get",
        serverMessage: err
      })
    } else {
      res.status(200).json({
        message: "prodi berhasil get",
        ProgramStudi: result
      })
    }
  })
}

const getOne = (req, res) => {
  const id = req.params.id
  const query = "SELECT * FROM `program_studi` WHERE id = ?;"
  db.query(query, [id], (err, result) => {
    if (err) {
      res.status(400).json({
        message: "salah satu get prodi gagal",
        serverMessage: err
      })
    } else {
      res.status(200).json({
        message: "salah satu get prodi berhasil",
        ProgramStudi: result[0]
      })
    }
  })
}

const insert = (req, res) => {
  const prodi = req.body
  const query = "INSERT INTO program_studi SET ?"
  db.query(query, prodi, (err, result) => {
    if (err) {
      res.status(400).json({
        message: "insert prodi gagal",
        serverMessage: err
      })
    } else {
      res.status(200).json({
        message: "insert prodi berhasil",
      })
    }
  })
}

const update = (req, res) => {
  const id = req.params.id
  const prodi = req.body
  const query = `UPDATE mahasiswa SET ? WHERE id = ${id}`
  db.query(query, prodi, (err, result) => {
    if (err) {
      res.status(400).json({
        message: "update prodi gagal",
        serverMessage: err
      })
    } else {

```

```

        res.status(200).json({
            message: "update prodi berhasil",
            ProgramStudi: prodi
        })
    }
})
}

const remove = (req, res) => {
    const id = req.params.id
    const query = "DELETE FROM mahasiswa WHERE id =?"
    db.query(query, [id], (err, result) => {
        if(err) {
            res.status(400).json({
                message: "delete gagal",
                serverMessage: err
            })
        } else {
            res.status(200).json({
                message: "delete berhasil"
            })
        }
    })
}

module.exports = {getAll, insert, update, remove, getOne}

```

program\_studi.js

```

const express = require("express");
const route = express.Router();

const prodiControllers = require("./prodiControllers")

route.get("/", prodiControllers.getAll);

route.get("/:id", prodiControllers.getOne);

route.post("/", prodiControllers.insert);

route.patch("/:id", prodiControllers.update);

route.delete("/:id", prodiControllers.remove);

module.exports = route;

```

app.js

```

const express = require("express");
const app = express();

const mahasiswa = require("./mahasiswa");
const prodi = require("./program_studi")

app.use("/mahasiswa", mahasiswa);
app.use("/prodi", prodi)

```

```
module.exports = app;
```

2. SILAHKAN TAMBAHKAN ROUTE UNTUK MENAMPILKAN MAHASISWA BERDASARKAN:

- a. Kelas
- b. Semester
- c. Program Studi

mahasiswaControllers.js

```
const getKelas = (req, res) => {
  const kelas = req.params.kelas
  const query = "SELECT * FROM mahasiswa INNER JOIN program_studi ON id_program_studi = program_studi.id"
  db.query(query, [kelas], (err, result) => {
    if (err) {
      res.status(400).json({
        message: "get kelas gagal",
        serverMessage: err,
      });
    } else {
      res.status(200).json({
        message: "get kelas berhasil",
        kelas: result[0]
      });
    }
  })
}

const getSemester = (req, res) => {
  const semester = "SELECT * FROM mahasiswa INNER JOIN program_studi ON id_program_studi = program_studi.id"
  db.query(query, [semester], (err, result) => {
    if (err) {
      res.status(400).json({
        message: "get semester gagal",
        serverMessage: err,
      });
    } else {
      res.status(200).json({
        message: "get semester berhasil",
        semester: result[0]
      });
    }
  })
}

const getProgram = (req, res) => {
  const program = req.params.id_program_studi
  const query = "SELECT * FROM mahasiswa INNER JOIN program_studi ON id_program_studi = program_studi.id"
  db.query(query, [program], (err, result) => {
    if (err) {
      res.status(400).json({
        message: "get program studi gagal",
        serverMessage: err,
      });
    } else {
      res.status(200).json({
        message: "get program studi berhasil",
        program: result[0]
      });
    }
  })
}
```

```
}  
})  
}
```

app.js

```
route.get("/:kelas", mahasiswaControllers.getKelas);  
route.get("/:semester", mahasiswaControllers.getSemester);  
route.get("/:program", mahasiswaControllers.getProgram);
```