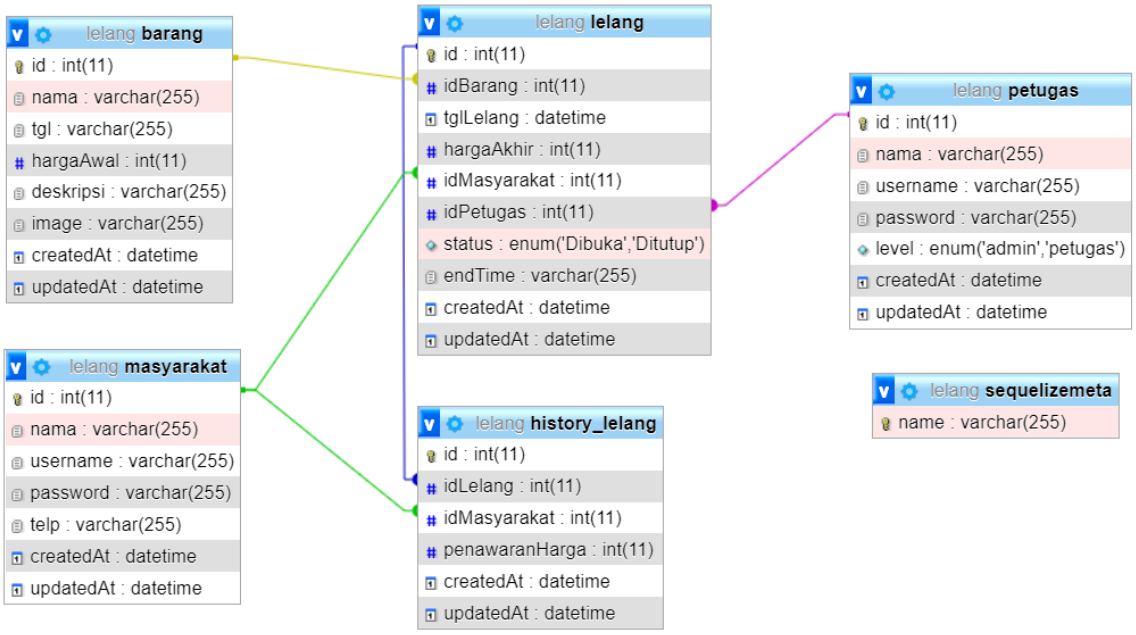


Config.js

```
"scripts": {
    "start": "node index.js",
    "dev": "nodemon index.js"
  },
```

Migration dan Model

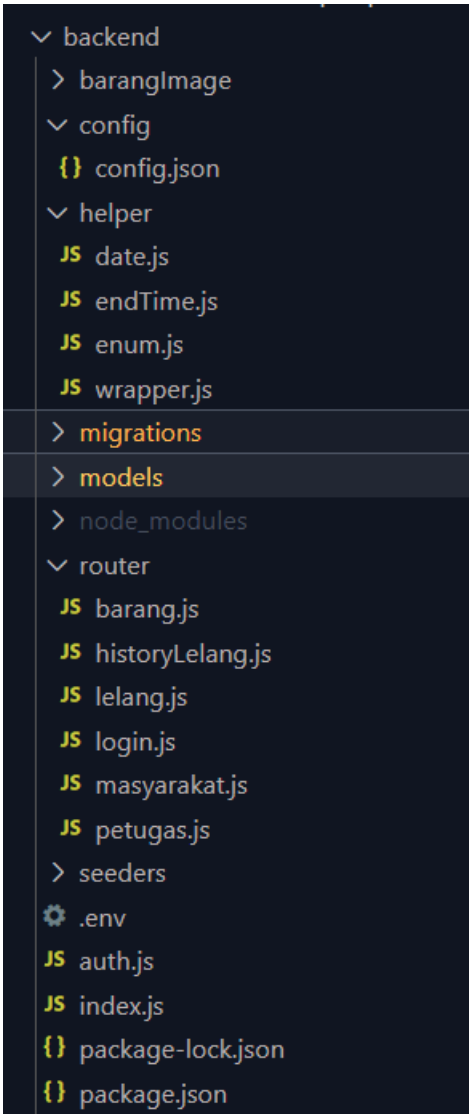
sequelize model:create --name barang –attributes id_member:integer

sequelize model:create --name petugas –attributes id_member:integer

sequelize model:create --name masyarakat –attributes id_member:integer

sequelize model:create --name lelang –attributes id_member:integer

sequelize model:create --name history_lelang –attributes id_member:integer



- Migration file

```
"use strict"
module.exports = {
    up: async (queryInterface, Sequelize) => {
        await queryInterface.createTable("barang", {
            id: {
```

```
                allowNull: false,
                autoIncrement: true,
                primaryKey: true,
                type: Sequelize.INTEGER,
            },
            nama: {
                type: Sequelize.STRING,
                allowNull: false
            },
            tgl: {
                type: Sequelize.STRING,
            },
            hargaAwal: {
                type: Sequelize.INTEGER,
                defaultValue: 0
            },
            deskripsi: {
                type: Sequelize.STRING,
            },
            image: {
                type: Sequelize.STRING,
                allowNull: false
            },
            createdAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
            updatedAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
        })
    },
    down: async (queryInterface, Sequelize) => {
        await queryInterface.dropTable("barang")
    },
}
```

```
"use strict"
module.exports = {
    up: async(queryInterface, Sequelize) => {
        await queryInterface.createTable("petugas", {
            id: {
                allowNull: false,
                autoIncrement: true,
                primaryKey: true,
                type: Sequelize.INTEGER,
            },
            nama: {
                type: Sequelize.STRING,
                allowNull: false
            },
```

```
            username: {
                type: Sequelize.STRING,
                allowNull: false
            },
            password: {
                type: Sequelize.STRING,
                allowNull: false
            },
            level: {
                type: Sequelize.ENUM("admin", "petugas"),
                allowNull: false
            },
            createdAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
            updatedAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
        })
    },
    down: async(queryInterface, Sequelize) => {
        await queryInterface.dropTable("petugas")
    },
}
```

```
"use strict"
module.exports = {
    up: async(queryInterface, Sequelize) => {
        await queryInterface.createTable("masyarakat", {
            id: {
                allowNull: false,
                autoIncrement: true,
                primaryKey: true,
                type: Sequelize.INTEGER,
            },
            nama: {
                type: Sequelize.STRING,
                allowNull: false
            },
            username: {
                type: Sequelize.STRING,
                allowNull: false
            },
            password: {
                type: Sequelize.STRING,
                allowNull: false
            },
            telp: {
                type: Sequelize.STRING,
                allowNull: false
```

```
            },
            createdAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
            updatedAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
        })
    },
    down: async(queryInterface, Sequelize) => {
        await queryInterface.dropTable("masyarakat")
    },
}
```

```
"use strict"
module.exports = {
    up: async(queryInterface, Sequelize) => {
        await queryInterface.createTable("lelang", {
            id: {
                allowNull: false,
                autoIncrement: true,
                primaryKey: true,
                type: Sequelize.INTEGER,
            },
            idBarang: {
                type: Sequelize.INTEGER,
                allowNull: false,
                references: {
                    model: "barang",
                    key: "id",
                },
            },
            tglLelang: {
                type: Sequelize.DATE,
                allowNull:true
            },
            hargaAkhir: {
                type: Sequelize.INTEGER,
                allowNull:true
            },
            idMasyarakat: {
                type: Sequelize.INTEGER,
                allowNull: true,
                references: {
                    model: "masyarakat",
                    key: "id",
                },
            },
            idPetugas: {
                type: Sequelize.INTEGER,
```

```
                allowNull: false,
                references: {
                    model: "petugas",
                    key: "id",
                },
            },
            status: {
                type: Sequelize.ENUM("Dibuka", "Ditutup"),
                defaultValue: "Ditutup",
            },
            endTime: {
                type: Sequelize.STRING,
                allowNull: true
            },
            createdAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
            updatedAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
        })
    },
    down: async(queryInterface, Sequelize) => {
        await queryInterface.dropTable("lelang")
    },
}
```

```
"use strict"
module.exports = {
    up: async(queryInterface, Sequelize) => {
        await queryInterface.createTable("history_lelang", {
            id: {
                allowNull: false,
                autoIncrement: true,
                primaryKey: true,
                type: Sequelize.INTEGER,
            },
            idLelang: {
                type: Sequelize.INTEGER,
                allowNull: false,
                references: {
                    model: "lelang",
                    key: "id",
                },
            },
            idMasyarakat: {
                type: Sequelize.INTEGER,
                allowNull: false,
                references: {
                    model: "masyarakat",
```

```
                    key: "id",
                },
            },

            penawaranHarga: {
                type: Sequelize.INTEGER,
                allowNull: false
            },
            createdAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
            updatedAt: {
                allowNull: false,
                type: Sequelize.DATE,
            },
        })
    },
    down: async(queryInterface, Sequelize) => {
        await queryInterface.dropTable("history_lelang")
    },
}
```

- Models File

```
"use strict"
const { Model } = require("sequelize")
module.exports = (sequelize, DataTypes) => {
    class barang extends Model {
        /**
         * Helper method for defining associations.
         * This method is not a part of Sequelize lifecycle.
         * The `models/index` file will call this method
automatically.
         */
        static associate(models) {
            // define association here

            this.hasMany(models.lelang, {
                foreignKey: "idBarang",
            })
        }
    }
    barang.init({
        id: {
            type: DataTypes.INTEGER,
            primaryKey: true,
            autoIncrement: true,
        },
        nama: DataTypes.STRING,
        tgl: DataTypes.DATE,
```

```
        hargaAwal: DataTypes.INTEGER,
        deskripsi: DataTypes.STRING,
        image:DataTypes.STRING,
    }, {
        sequelize,
        modelName: "barang",
        tableName: "barang",
    })
    return barang
}
```

```
"use strict"
const { Model } = require("sequelize")
module.exports = (sequelize, DataTypes) => {
    class history_lelang extends Model {
        /**
         * Helper method for defining associations.
         * This method is not a part of Sequelize lifecycle.
         * The `models/index` file will call this method
automatically.
         */
        static associate(models) {
            // define association here
            this.belongsTo(models.lelang, {
                foreignKey: "id",
                as: "lelang",
            })
            this.belongsTo(models.masyarakat, {
                foreignKey: "id",
                as: "masyarakat",
            })
        }
    }
    history_lelang.init({
        id: {
            type: DataTypes.INTEGER,
            primaryKey: true,
            autoIncrement: true,
        },
        idLelang: DataTypes.INTEGER,
        idMasyarakat: DataTypes.INTEGER,
        penawaranHarga: DataTypes.INTEGER,
    }, {
        sequelize,
        modelName: "history_lelang",
        tableName: "history_lelang",
    })
    return history_lelang
}
```

```
"use strict"
const { Model } = require("sequelize")
```

```
module.exports = (sequelize, DataTypes) => {
    class lelang extends Model {
        /**
         * Helper method for defining associations.
         * This method is not a part of Sequelize lifecycle.
         * The `models/index` file will call this method
automatically.
         */
        static associate(models) {
            // define association here
            this.belongsTo(models.barang, {
                foreignKey: "id",
                as: "barang",
            })
            this.belongsTo(models.masyarakat, {
                foreignKey: "id",
                as: "masyarakat",
            })
            this.belongsTo(models.petugas, {
                foreignKey: "id",
                as: "petugas",
            })
        }
    }
    lelang.init({
        id: {
            type: DataTypes.INTEGER,
            primaryKey: true,
            autoIncrement: true,
        },
        idBarang: DataTypes.INTEGER,
        tglLelang: DataTypes.DATE,
        hargaAkhir: DataTypes.INTEGER,
        idMasyarakat: DataTypes.INTEGER,
        idPetugas: DataTypes.INTEGER,
        status: DataTypes.ENUM("Dibuka", "Ditutup"),
        endTime: DataTypes.DATE
    }, {
        sequelize,
        modelName: "lelang",
        tableName: "lelang",
    })
    return lelang
}
```

```
"use strict"
const { Model } = require("sequelize")
module.exports = (sequelize, DataTypes) => {
    class masyarakat extends Model {
        /**
         * Helper method for defining associations.
         * This method is not a part of Sequelize lifecycle.
```

```
         * The `models/index` file will call this method
automatically.
         */
        static associate(models) {
            // define association here
            this.hasMany(models.history_lelang, {
                foreignKey: "idMasyarakat",
            })
            this.hasMany(models.lelang, {
                foreignKey: "idMasyarakat",
            })
        }
    }
    masyarakat.init({
        id: {
            type: DataTypes.INTEGER,
            primaryKey: true,
            autoIncrement: true,
        },
        nama: DataTypes.STRING,
        username: DataTypes.STRING,
        password: DataTypes.STRING,
        telp: DataTypes.STRING,
    }, {
        sequelize,
        modelName: "masyarakat",
        tableName: "masyarakat",
    })
    return masyarakat
}
```

```
"use strict"
const { Model } = require("sequelize")
module.exports = (sequelize, DataTypes) => {
    class petugas extends Model {
        /**
         * Helper method for defining associations.
         * This method is not a part of Sequelize lifecycle.
         * The `models/index` file will call this method
automatically.
         */
        static associate(models) {

        }
    }
    petugas.init({
        id: {
            type: DataTypes.INTEGER,
            primaryKey: true,
            autoIncrement: true,
        },
        nama: DataTypes.STRING,
```

```
        username: DataTypes.STRING,
        password: DataTypes.STRING,
        level: DataTypes.ENUM("admin", "petugas"),
    }, {
        sequelize,
        modelName: "petugas",
        tableName: "petugas",
    })
    return petugas
}
```

- Helper File

date.js

```
const toIsoString = (date) => {
    var tzo = -date.getTimezoneOffset(),
        dif = tzo >= 0 ? '+' : '-',
        pad = function(num) {
            var norm = Math.floor(Math.abs(num));
            return (norm < 10 ? '0' : '') + norm;
        };

    return date.getFullYear() +
        '-' + pad(date.getMonth() + 1) +
        '-' + pad(date.getDate()) +
        'T' + pad(date.getHours()) +
        ':' + pad(date.getMinutes()) +
        ':' + pad(date.getSeconds()) +
        '.' + pad(date.getMilliseconds()) + 'Z'

  }

module.exports = {
    toIsoString
}
```

endTime.js

```
const { CronJob } = require('cron')
const { lelangStatus } = require('./enum')
const { toIsoString } = require('./date')
const { lelang } = require('../models/index')
const runTime = (time, timestamp, id) => {
    let job = new CronJob(time, async () => {
        const date = new Date(Date.now())
        const date7 = new Date(toIsoString(date))
        const now = date7.getTime()
        if (now > timestamp) {
            await lelang.update({ status: lelangStatus.DITUTUP }, {
where: { id: id } })
            job.stop()
        }
    });
```

```
    job.start()
}

module.exports = {
    runTime
}
```

enum.js

```
const lelangStatus = {
        DIBUKA : 'Dibuka',
    DITUTUP :'Ditutup'
}
module.exports = {
    lelangStatus
}
```

wrapper.js

```
const response = (res, type, result, message = '', code) => {
  let status = true;
  let data = result;
  if (type === 'fail') {
    status = false;
    data = data || '';
    message = message;
  }
  res.send(code, {
    success: status,
    data,
    message,
    code,
  });
};

const logged = (res, type, result, token, message = '', code) => {
  let status = true;
  let data = result;
  if (type === 'fail') {
    status = false;
    data = data || '';
    message = message;
  }
  res.send(code, {
    logged: status,
    data,
    token,
    message,
    code,
  });
};

module.exports = {
  response,
```

```
  logged
}
```

- Router file

barang.js

```
const express = require("express")
const app = express()
const { response } = require('../helper/wrapper')
const { toIsoString } = require('../helper/date')
const multer = require('multer')
const fs = require('fs')
const path = require("path")
const auth = require('../auth')
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
const { barang } = require('../models/index')
const storage = multer.diskStorage({
    destination: (req, file, cb) => {
        cb(null, "./barangImage")
    },
    filename: (req, file, cb) => {
        cb(null, "img-" + Date.now() +
path.extname(file.originalname))
    }
})
let upload = multer({ storage: storage })

app.get("/", auth("admin", "petugas", "masyarakat"),async (req, res)
=> {
    await barang.findAll()
        .then(result => {
            return response(res, 'success', result, 'Success get data
barang', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed get data
barang', 400)
        })
})

app.get("/:id", auth("admin", "petugas", "masyarakat"), async (req,
res) => {
    const param = {
        id: req.params.id
    }
    await barang.findOne({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success get data
masyarakat', 200)
        }).catch(err => {
```

```
            return response(res, 'fail', err, 'Failed get data
masyarakat', 400)
        })
})

app.post("/", upload.single("image"), auth("admin", "petugas"),async
(req, res) => {
    const date = new Date(Date.now())
    if (!req.file) {
        return response(res, 'fail', '', 'Image is required', 400)
    } else {
        const data = {
            nama: req.body.nama,
            hargaAwal: req.body.hargaAwal,
            deskripsi: req.body.deskripsi,
            tgl: toIsoString(date),
            image: req.file.filename
        }
        await barang.create(data)
            .then(result => {
                return response(res, 'success', result, 'Success
create data barang', 200)
            }).catch(err => {
                return response(res, 'fail', err, 'Failed create data
barang', 400)
            })
    }
})

app.put("/", upload.single("image"), auth("admin", "petugas"), async
(req, res) => {
    const date = new Date(Date.now())
    const param = {
        id: req.body.id
    }
    const data = {
        nama: req.body.nama,
        hargaAwal: req.body.hargaAwal,
        deskripsi: req.body.deskripsi,
        tgl: toIsoString(date)
    }
    if (req.file) {
        const result = await barang.findOne({ where: param })
        const oldFileName = result.image

        // delete old file
        const dir = await path.join(__dirname, "../barangImage",
oldFileName)
        fs.unlink(dir, err => console.log(err))
        // set new filename
        data.image = req.file.filename
    }
    await barang.update(data, { where: param })
```

```
        .then(result => {
            return response(res, 'success', result, 'Success update
data barang', 200)
        }).catch(err => {
            return response(res, 'fail', err, 'Failed create data
barang', 400)
        })
})

app.delete("/:id", auth("admin", "petugas"), async (req, res) => {
    const param = {
        id: req.params.id
    }
    let result = await barang.findOne({ where: param })
    let oldFileName = result.image

    // delete old file
    let dir = path.join(__dirname, "../barangImage", oldFileName)
    fs.unlink(dir, err => console.log(err))
    await barang.destroy({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success delete
data barang', 200)
        }).catch(err => {
            return response(res, 'fail', err, 'Failed update data
barang', 400)
        })
})


module.exports = app
```

petugas.js

```
const express = require("express")
const app = express()
const { response } = require('../helper/wrapper')
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
const { petugas } = require('../models/index')
const { masyarakat } = require('../models/index')
const md5 = require("md5")
const auth = require('../auth')

app.get("/", auth("admin", "petugas"),async (req, res) => {
    await petugas.findAll()
        .then(result => {
            return response(res, 'success', result, 'Success get data
petugas', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed get data
petugas', 400)
```

```
        })
})

app.get("/:id", auth("admin", "petugas"),async (req, res) => {
    const param = {
        id: req.params.id
    }
    await petugas.findOne({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success get data
petugas', 200)
        }).catch(err => {
            return response(res, 'fail', err, 'Failed get data
petugas', 400)
        })
})

app.post("/", auth("admin"),async (req, res) => {
    const data = {
        nama: req.body.nama,
        password: md5(req.body.password),
        level: req.body.level
    }
    const param = {
        username: req.body.username
    }
    const resultMasyarakat = await masyarakat.findOne({ where: param
})
    const resultPetugas = await petugas.findOne({ where: param })
    if (resultMasyarakat || resultPetugas) {
        return response(res, 'fail', '', 'Username Already exist',
400)
    } else {
        data.username = param.username
        await petugas.create(data)
            .then(result => {
                return response(res, 'success', result, 'Success
create data petugas', 201)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed create data
petugas', 400)
            })
    }
})

app.put("/", auth("admin", "petugas"),async (req, res) => {
    const param = {
        id: req.body.id
    }
    const payload = {
        nama: req.body.nama,
        level: req.body.level
```

```
    }
    const data = {}
    if (req.body.password) {
        payload.password = md5(req.body.password)
    }
    if (req.body.username) {
        data.username = req.body.username
        const resultMasyarakat = await masyarakat.findOne({ where:
data })
        const resultPetugas = await petugas.findOne({ where: data })
        if (resultMasyarakat || resultPetugas) {
            return response(res, 'fail', '', 'Username Already exist',
400)
        } else {
            payload.username = data.username
            await petugas.update(payload, { where: param })
                .then(result => {
                    return response(res, 'fail', result, 'Success
update data petugas', 200)
                })
                .catch(err => {
                    return response(res, 'fail', err, 'Failed update
data petugas', 400)
                })
        }
    } else {
        payload.username = data.username
        await petugas.update(payload, { where: param })
            .then(result => {
                return response(res, 'fail', result, 'Success update
data petugas', 200)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed update data
petugas', 400)
            })
    }
})

app.delete("/:id", auth("admin"),async (req, res) => {
    const param = {
        id: req.params.id
    }
    petugas.destroy({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success delete
data petugas', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed update data
petugas', 400)
        })
})
```

```
module.exports = app
```

masyarakat.js

```
const express = require("express")
const app = express()
const { response } = require('../helper/wrapper')
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
const { masyarakat } = require('../models/index')
const { petugas } = require('../models/index')
const md5 = require("md5")

app.get("/", auth("admin", "petugas", "masyarakat"), async (req, res)
=> {
    await masyarakat.findAll()
        .then(result => {
            return response(res, 'success', result, 'Success get data
petugas', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed get data
petugas', 400)
        })
})

app.get("/:id", auth("admin", "petugas", "masyarakat"), async (req,
res) => {
    const param = {
        id: req.params.id
    }
    await masyarakat.findOne({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success get data
masyarakat', 200)
        }).catch(err => {
            return response(res, 'fail', err, 'Failed get data
masyarakat', 400)
        })
})

app.post("/register", async (req, res) => {
    const data = {
        nama: req.body.nama,
        password: md5(req.body.password),
        telp: req.body.telp
    }
    const param = {
        username: req.body.username,
    }
    const resultMasyarakat = await masyarakat.findOne({ where: param
})
```

```
    const resultPetugas = await petugas.findOne({ where: param })
    if (resultMasyarakat || resultPetugas) {
        return response(res, 'fail', '', 'Username Already exist',
400)
    } else {
        data.username = param.username
        await masyarakat.create(data)
            .then(result => {
                return response(res, 'success', result, 'Success
create data masyarakat', 201)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed create data
masyarakat', 400)
            })
    }
})

app.put("/", auth("masyarakat"), async (req, res) => {
    const param = {
        id: req.body.id
    }
    const payload = {
        nama: req.body.nama,
        telp: req.body.telp
    }
    const data = {}
    if (req.body.password) {
        payload.password = md5(req.body.password)
    }
    if (req.body.username) {
        data.username = req.body.username
        const resultMasyarakat = await masyarakat.findOne({ where:
data })
        const resultPetugas = await petugas.findOne({ where: data })
        if (resultMasyarakat || resultPetugas) {
            return response(res, 'fail', '', 'Username Already exist',
400)
        } else {
            payload.username = data.username
            await masyarakat.update(payload, { where: param })
                .then(result => {
                    return response(res, 'fail', result, 'Success
update data masyarakat', 200)
                })
                .catch(err => {
                    return response(res, 'fail', err, 'Failed update
data masyarakat', 400)
                })
        }
    } else {
        payload.username = data.username
        await masyarakat.update(payload, { where: param })
```

```
            .then(result => {
                return response(res, 'fail', result, 'Success update
data masyarakat', 200)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed update data
masyarakat', 400)
            })
    }
})

app.delete("/:id", auth("admin"), async (req, res) => {
    const param = {
        id: req.params.id
    }
    masyarakat.destroy({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success delete
data masyarakat', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed delete data
masyarakat', 400)
        })
})



module.exports = app
```

lelang.js

```
const express = require("express")
const app = express()
const { response } = require('../helper/wrapper')
const { toIsoString } = require('../helper/date')
const { lelangStatus } = require('../helper/enum')
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
const { lelang } = require('../models/index')
const { barang } = require('../models/index')
const { history_lelang } = require('../models/index')
const { runTime } = require('../helper/endTime')

app.get("/", auth("admin", "petugas", "masyarakat"), async (req, res)
=> {
    await lelang.findAll()
        .then(result => {
            return response(res, 'success', result, 'Success get data
lelang', 200)
        })
        .catch(err => {
```

```
            return response(res, 'fail', err, 'Failed get data
lelang', 400)
        })
})

app.get("/:id", auth("admin", "petugas", "masyarakat"), async (req,
res) => {
    const param = {
        id: req.params.id
    }
    await lelang.findOne({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success get data
lelang', 200)
        }).catch(err => {
            return response(res, 'fail', err, 'Failed get data
lelang', 400)
        })
})

app.post("/", auth("admin", "petugas"),async (req, res) => {
    const date = new Date(Date.now())
    const idBarang = {
        id: req.body.idBarang
    }
    const resultBarang = await barang.findOne({ where: idBarang })
    const data = {
        idBarang: req.body.idBarang,
        tglLelang: toIsoString(date),
        hargaAkhir: resultBarang.dataValues.hargaAwal,
        idPetugas: req.body.idPetugas,
        status: req.body.status
    }
    if (data.status === lelangStatus.DIBUKA) {
        let end = new Date(req.body.endTime)
        let timeStamp = end.getTime()
        data.endTime = end
        await lelang.create(data)
            .then(result => {
                runTime('* * * * * *', timeStamp,
result.dataValues.id)
                return response(res, 'success', result, 'Success
create data lelang', 200)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed create data
lelang', 400)
            })
    } else {
        await lelang.create(data)
            .then(result => {
                return response(res, 'success', result, 'Success
create data lelang', 201)
```

```
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed create data
lelang', 400)
            })
    }
})

app.put("/", auth("admin", "petugas"), async (req, res) => {
    const date = new Date(Date.now())
    const idBarang = {
        id: req.body.idBarang
    }
    const resultBarang = await barang.findOne({ where: idBarang })
    const param = {
        id: req.body.id
    }
    const data = {
        idBarang: req.body.idBarang,
        tglLelang: toIsoString(date),
        hargaAkhir: resultBarang.dataValues.hargaAwal,
        idPetugas: req.body.idPetugas,
        status: req.body.status
    }
    if (data.status === lelangStatus.DIBUKA) {
        let end = new Date(req.body.endTime)
        let timeStamp = end.getTime()
        data.endTime = end
        await lelang.update(data, {where: param})
            .then(result => {
                runTime('* * * * * *', timeStamp, param.id)
                return response(res, 'success', result, 'Success
update data lelang', 200)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed update data
lelang', 400)
            })
    } else {
        await lelang.create(data)
            .then(result => {
                return response(res, 'success', result, 'Success
create data lelang', 201)
            })
            .catch(err => {
                return response(res, 'fail', err, 'Failed create data
lelang', 400)
            })
    }
})

app.post("/bid", auth("masyarakat"),async (req, res) => {
    const idLelang = {
```

```
        id: req.body.id
    }
    const resultLelang = await lelang.findOne({ where: idLelang })
    const { hargaAkhir, status } = resultLelang.dataValues
    const data = {
        idLelang: idLelang.id,
        idMasyarakat: req.body.idMasyarakat,
        penawaranHarga: req.body.penawaranHarga
    }
    if (status === lelangStatus.DITUTUP) {
        return response(res, 'fail', '', 'Status is closed', 400)
    }
    if (data.penawaranHarga <= hargaAkhir) {
        return response(res, 'fail', '', 'bid must be higher', 400)
    }
    await history_lelang.create(data)
    await lelang.update({ hargaAkhir: data.penawaranHarga,
idMasyarakat: data.idMasyarakat }, { where: idLelang })
        .then(result => {
            return response(res, 'success', result, 'Success bid',
201)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed bid', 400)
        })
})

app.delete("/:id", async(req, res) => {
    const param = {
        id: req.params.id
    }
    lelang.destroy({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success delete
data lelang', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed update data
lelang', 400)
        })
})

module.exports = app
```

historyLelang.js

```
const express = require("express")
const app = express()
const { response } = require('../helper/wrapper')
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
const { history_lelang } = require('../models/index')
```

```
app.get("/", auth("admin", "petugas", "masyarakat"), async(req, res)
=> {
    await history_lelang.findAll()
        .then(result => {
            return response(res, 'success', result, 'Success get data
history lelang', 200)
        })
        .catch(err => {
            return response(res, 'fail', err, 'Failed get data history
lelang', 400)
        })
})

app.get("/:id", auth("admin", "petugas", "masyarakat"), async(req,
res) => {
    const param = {
        id: req.params.id
    }
    await history_lelang.findOne({ where: param })
        .then(result => {
            return response(res, 'success', result, 'Success get data
history lelang', 200)
        }).catch(err => {
            return response(res, 'fail', err, 'Failed get data history
lelang', 400)
        })
})

module.exports = app
```

login.js

```
const express = require("express")
const app = express()
app.use(express.json())
app.use(express.urlencoded({ extended: true }))
require('dotenv').config()
const SECRET_KEY = process.env.SECRET_KEY
const { masyarakat } = require('../models/index')
const { petugas } = require('../models/index')
const md5 = require("md5")
const jwt = require("jsonwebtoken")
const {logged} = require('../helper/wrapper')

app.post("/", async(req, res) => {
    const param = {
        username: req.body.username,
        password: md5(req.body.password)
    }
    const resultMasyarakat = await masyarakat.findOne({ where: param
})
    const resultPetugas = await petugas.findOne({ where: param })
    if(resultMasyarakat){
```

```
        resultMasyarakat.dataValues.level = "masyarakat"
        let payload = JSON.stringify(resultMasyarakat)
        let token = jwt.sign(payload, SECRET_KEY)
        return logged(res, 'success', resultMasyarakat, token,
'Success login masyarakat', 200)
    }else if(resultPetugas){
        let payload = JSON.stringify(resultPetugas)
        let token = jwt.sign(payload, SECRET_KEY)
        return logged(res, 'success', resultPetugas, token, 'Success
login masyarakat', 200)
    }else {
        return logged(res, 'fail', '', '', 'Invalid Username or
Password', 200)
    }
})

module.exports = app
```

- Auth.js

```
const jwt = require("jsonwebtoken")
require('dotenv').config()
const SECRET_KEY = process.env.SECRET_KEY
const {response} = require('./helper/wrapper')

auth = (role1, role2, role3) => {
    let role = [role1, role2, role3]
    return (req, res, next) => {
        let header = req.headers.authorization
        let token = header && header.split(" ")[1]

        let jwtHeader = {
            algorithm: "HS256"
        }
        if (token == null) {
            return response(res, 'fail', '', 'Unauthorized', 401)
        } else {
            jwt.verify(token, SECRET_KEY, jwtHeader, (error, user) =>
{
                if (error) {
                    return response(res, 'fail', '', 'Invalid Token',
401)
                } else {
                    if (role.includes(user.level)) {
                        console.log(role);
                        req.user = user
                        // if(user.username == )
                        next()
                    }else{
```

```
                        return response(res, 'fail', '', 'You dont
have access', 401)
                    }

                }
            })
        }
    }

}

module.exports = auth
```

- Index.js

```
const express = require("express")
const app = express()
const cors = require('cors')
const petugas = require('./router/petugas')
const masyarakat = require('./router/masyarakat')
const barang = require('./router/barang')
const lelang = require('./router/lelang')
const historyLelang = require('./router/historyLelang')
const login = require('./router/login')
require('dotenv').config()
const api = process.env.API
const port = process.env.PORT

app.use(cors())
app.use(`${api}/petugas`, petugas)
app.use(`${api}/masyarakat`, masyarakat)
app.use(`${api}/barang`, barang)
app.use(`${api}/lelang`, lelang)
app.use(`${api}/historyLelang`, historyLelang)
app.use(`${api}/login`, login)

app.listen(port, () => {
    console.log(`server run on port ${port}`);
})
```

.env

```
PORT = 8000
API = /api/v1
SECRET_KEY = LELANG
```