

```
npm install --save express-session bunyan
```

Buat file src > models > user.model.js

```
export default class User {  
  constructor(userId, userName, userPassword, userFullName) {  
    this.userId = userId;  
    this.userName = userName;  
    this.userPassword = userPassword;  
    this.userFullName = userFullName;  
  }  
}
```

Buat file src > models > userInfo.model.js

```
export default class UserInfo {  
  constructor(id, address, phoneNo) {  
    this.id = id;  
    this.address = address;  
    this.phoneNo = phoneNo;  
  }  
}
```

```
FullName) {
```

Buat file src > entities > user.schema.js

```
import User from "../models/User.model";
import {EntitySchema} from "typeorm";

const UserSchema = new EntitySchema({
  name: 'User',
  target: User,
  tableName: 'master_user',
  columns: {
    userId: {
      primary: true,
      type: 'int',
      generated: true,
      name: 'user_id'
    },
    userName: {
      name: 'user_name',
      type: 'varchar'
    },
    userPassword: {
      name: 'user_password',
      type: 'varchar'
    },
    userFullName: {
      name: 'user_full_name',
      type: 'varchar'
    }
  },
  relations: {
    userInfo: {
      target: 'UserInfo',
      type: 'one-to-one',
      cascade: true,
      // eager:true,
      joinColumn: {name: 'user_info_id'}
    }
  }
});
export default UserSchema
```

Buat file src > entities > userInfo.schema.js

```
import UserInfo from "../models/UserInfo.model";
import {EntitySchema} from "typeorm";

const UserInfoSchema = new EntitySchema({
  name: 'UserInfo',
  target: UserInfo,
  tableName: 'master_user_info',
  columns: {
    id: {
      primary: true,
      type: 'int',
      generated: true
    },
    address: {
      type: 'varchar'
    },
    phoneNo: {
      name: 'phone_no',
      type: 'varchar'
    }
  }
});
export default UserInfoSchema
```

Buat file src > repository > user.repository.js

```
import {getRepository} from "typeorm";
import UserSchema from "../entities/user.schema";

export default class UserRepository {
  userRepository() {
    return getRepository(UserSchema);
  }

  async findOne(id) {
    const user = await
      this.userRepository()
        .createQueryBuilder("user")
        .innerJoinAndSelect("user.userInfo", "
        .where("user.userId = :id", {id: id})
        .getOne();
    return user;
  }

  async findByUserNameAndPassword(userName, password) {
    return await this.userRepository().find({
      where: {userName: userName, password: password},
      relations: ["userInfo"]
    })
  }
}
```

```
async findAll(skip = 0, take = 10) {
  const user = await
    this.userRepository()
      .createQueryBuilder("user")
      .innerJoinAndSelect("user.userInfo", "
      .skip(skip)
      .take(take)
      .getMany();
  return user;
}

async save(data) {
  const user = this.userRepository().create(data);
  return await
    this.userRepository().save(user);
}
```

```
userInfo")
```

```
);
```

Buat file src > services > user.service.js

```
import UserRepository from "../repository/user.repository";  
  
class UserService {  
    findUser(id) {  
        return new UserRepository().findOne(id);  
    }  
  
    findAllUser(skip = 0, take = 10) {  
        return new UserRepository().findAll(skip, take);  
        return user;  
    }  
  
    createUser(data) {  
        return new UserRepository().save(data);  
    }  
}  
  
export default UserService;
```

Buat file src > logger.js

```
import bunyan from "bunyan";

export const log = bunyan.createLogger({
  name: 'hello-world-db',
  streams: [
    {
      level: 'info',
      stream: process.stdout
    },
    {
      level: 'error',
      path: '/Users/edwardsuwirya/Downloads/
    },
    {
      level: 'info'
    }
  ]
});
```

Update file src > middlewares > app-middleware.js

```
import express from 'express';
import session from 'express-session';

export default express.Router()
  .use(session({
    secret: 'hello-secret',
    resave: false,
    rolling: true,
    saveUninitialized: true,
    cookie: {maxAge: 15000}
  }))
  .use(express.json());
```


Buat file src > routes > user.router.js

```
import {Router} from "express";
import UserService from "../services/user.service";

const userService = new UserService();
const UserRouter = Router()
  .get('/', async (req, res) => {
    const users = await userService.findAllUser(req.query.skip, req.query
    res.json(users);
  })
  .get('/:id', async (req, res) => {
    let users = null;
    if (req.params.id) {
      users = await userService.findUser(req.params.id);
    }
    res.json(users);
  }).post('/', async (req, res) => {
    let user = { ... req.body};
    const users = await userService.createUser(user);

    res.json(users);
  });

export default UserRouter;
```

```
.take());
```

Buat file src > routes > auth.router.js

```
import {Router} from "express";
import AuthService from "../services/auth.service";
import {log} from '../logger';

const AuthRouter = Router()
  .post('/', async (req, res) => {
    let user = { ... req.body};
    const userInfo = await new AuthService().doAuth(user);
    if (userInfo.length > 0) {
      req.session.name = JSON.stringify(userInfo);
      log.info({transType: 'USERAUTH-SUCCESS'}, userInfo);
      res.json({message: 'Successfully Authenticated'});
    } else {
      log.error({transType: 'USERAUTH-FAILED'}, user);
      res.sendStatus(401);
    }
  });

export default AuthRouter;
```

Update file src > routes > index.js

```
import express from 'express';
import ProductRouter from './product.router';
import CategoryRouter from './category.router';
import UserRouter from './user.router';
import AuthRouter from './auth.router';
import {log} from '../logger';

export default express.Router()
  .use('/auth', AuthRouter)
  .use(function (req, res, next) {
    if (req.session.name) {
      next()
    } else {
      res.sendStatus(401);
    }
  })
  .use(function (req, res, next) {
    log.info({transType: 'USERACCESS-SUCCESS'}, req);
    next();
  })
  .use('/product', ProductRouter)
  .use('/category', CategoryRouter)
  .use('/user', UserRouter)

  .use(function (req, res, next) {
    res.body = res.body + "modified";

    next();
  })
  .use((req, res, next) => {
    log.error({transType: 'USERACCESS-FAILED'}, req);
    res.status(404).json({message: 'Not Found.'});
  });
```