

./SRC/PROJECT ./SRC/PROJECT/ROUTE CODERS.BAY, 01.07.2021, Linz Austria | | PHIL ZIEGELBAUER



./SRC/PROJECT/ROUTE/SPEC

For what the ...?





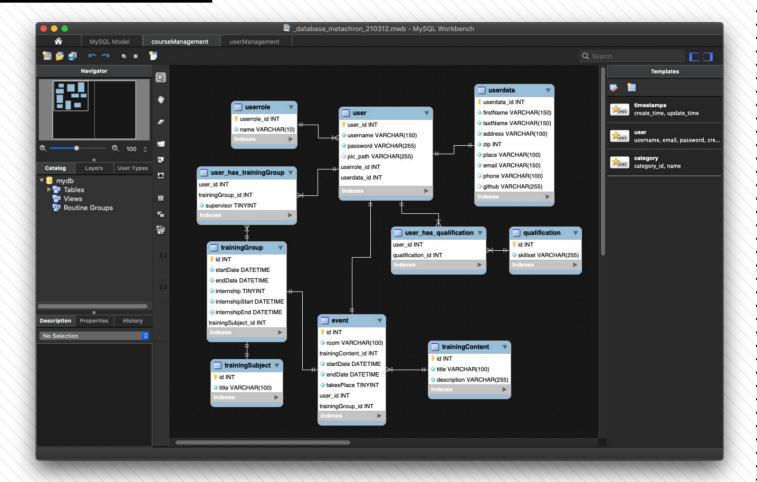
./SRC/PROJECT/DATABASE



./SRC/PROJECT/DATABASE

SELECT * FROM?

MYSQLWORKBENCH
 database design



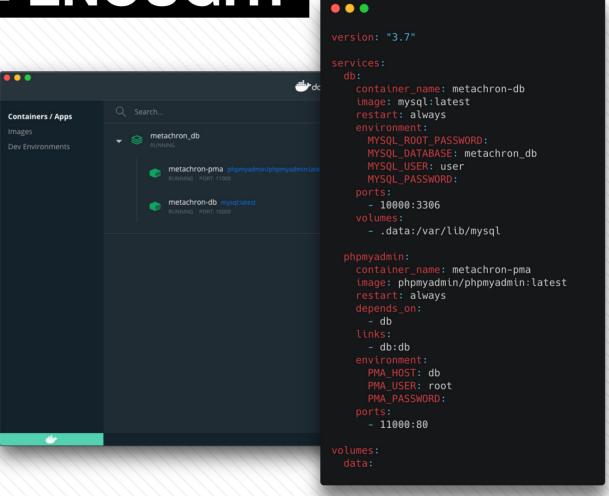
./SRC/PROJECT/DOCKER



./SRC/PROJECT/DOCKER

CONTAINER != ENOUGH?

- docker desktop
 - setup docker containers
 - pma (port: 11000)
 - db (port: 10000)
- docker-compose.yaml



./SRC/PROJECT/CLIENT



./SRC/PROJECT/CLIENT

CLIENT-APP



- npm
- creating react-app for frontend
- some usefull cli-commands
 - npx create-react-app.
 - npm start
 - npm i react-router-dom
 - npm i react-icons\
 - npm i styled-components
 - npm i react-router-hash-link
 - npm i typewriter-effect
 - npm i axios

```
"name": "client",
"version": "0.1.0",
"private": true,
"dependencies": {
  "@testing-library/react": "^11
                                  import React from "react";
  "axios": "^0.21.1",
                                  import { BrowserRouter as Router } from
  "react": "^17.0.2",
                                  "react-router-dom":
                                  import Routes from "./routes/Routes";
  "react-icons": "^4.2.0",
  "react-router-dom": "^5.2.0",
                                  import Navigation from
                                  "./components/Navigation/Navigation";
  "react-scripts": "4.0.3",
                                  import "./styles/main/main-style.css";
  "typewriter-effect": "^2.17.0"
                                  function App() {
                                    return (
"scripts": {
                                      <div className="App">
 "start": "react-scripts start"
                                        <Router>
 "build": "react-scripts build"
                                          <Navigation />
  "test": "react-scripts test",
                                          <Routes />
  "eject": "react-scripts eject"
                                        </Router>
"eslintConfig": {
  "extends": [
    "react-app",
    "react-app/jest"
                                  export default App;
"browserslist": {
  "production":
    ">0.2%",
    "not dead".
```

./SRC/PROJECT/SERVER



./SRC/PROJECT/SERVER

SERVER-APP



- npm
- creating node-app for backend
- some usefull cli-commands
 - npm init .
 - npm i express
 - npm i sequelize
 - npm i mysql2
 - npm i cors
 - npm i dotenv
 - npm nodemon --save-dev

```
"version": "1.0.0",
                                 const express = require("express");
  "description": "metachron"
                                const cors = require("cors");
  "main": "server.js",
  "scripts": {
                                 const { sequelize } = require("./models");
    "test": "echo \"Error: nc
                                 require("dotenv").config();
     "start": "nodemon server.
                                 const port = process.env.SERVER PORT || 3333;
  "keywords": [],
  "author": "phil.ziegelbauer const app = express();
  "license": "MIT".
  "dependencies": {
                                 app.use(express.json());
    "cors": "^2.8.5",
                                 const corsOptions = {
    "dotenv": "^8.2.0",
                                    origin: "http://localhost:3000",
    "express": "^4.17.1",
    "sequelize": "^6.6.2",
    "uuid": "^8.3.2"
                                 app.use(cors(corsOptions));
    "nodemon": "^2.0.7"
                                     res.json({ message: "express is running" });
                                 app.use("/", require("./routes/user.routes"));
                                 if (require.main === module) {
                                    app.listen(port, async () => {
                                        console.log(`Server started on
```

./SRC/PROJECT/ORM



SEQUELIZE



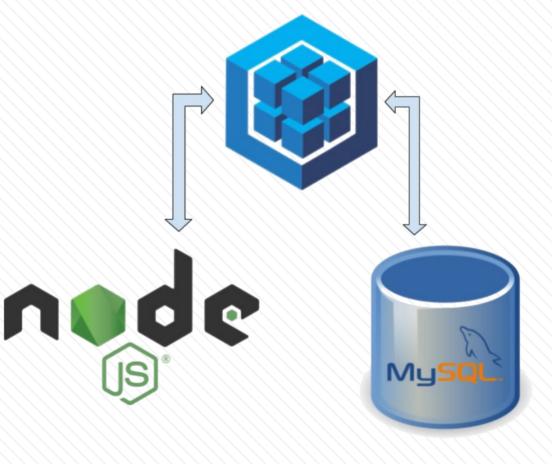
- some usefull cli-commands
 - sequelize db:create
 - sequelize model:generate
 - sequelize db:drop
 - sequelize db:create
 - sequelize db:migrate (:undo(:all))
 - sequelize seed:generate
 - sequelize db:seed:all
 - sequelize db:seed --seed name
 - sequelize seed:undo (:all)
 - sequelize db:migrate:status

```
'use strict';
                                                       User.init({
const bcrypt = require('bcrypt');
const {
                                                           primaryKey: true,
module.exports = (sequelize, DataTypes) => {
 class User extends Model {
                                                           allowNull: false
                                                           allowNull: false
     this.belongsTo(Userrole, { foreignKey: "userr
                                                           type: DataTypes.STRING,
     this.belongsTo(Userdatainfo, { foreignKey: "u
                                                         pic path: {
                                                           type: DataTypes.STRING,
                                                           allowNull: false
                                                           type: DataTypes.INTEGER,
                                                           allowNull: false
                                                           type: DataTypes.INTEGER,
    toJSON() {
                                                           allowNull: false
      return { ...this.get(), id: undefined };
                                                           type: DataTypes.DATE,
                                                           allowNull: false
```



NODEJS-SEQUELIZE-MYSQL

- sequelize is translation layer between nodejs and the db
- define model objects
- define model associations
- no raw query strings (select * from...)
- migrate to db
- possibility to setup seeders
- possibility to nest objects
- single language (js in our case)



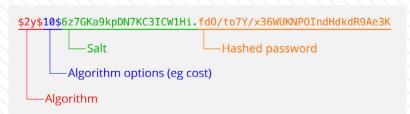
./SRC/PROJECT/BCRYPT

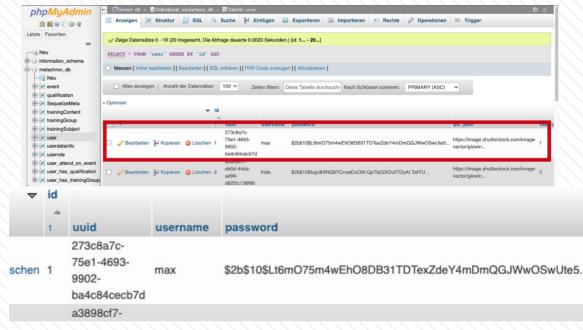
./SRC/PROJECT/BCRYPT

SECURE INFORMATION

node.bcrypt.js

bcrypt to hash information to db (for example password)
(in our case saltrounds = 10)





./SRC/PROJECT/INSOMNIA-API-CLIENT

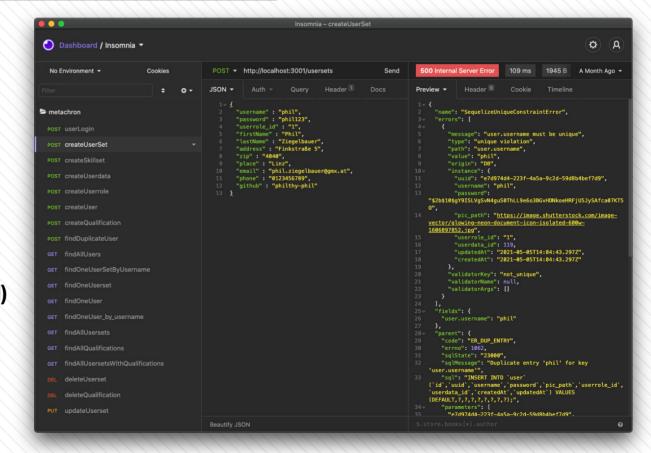


./SRC/PROJECT/INSOMNIA

SECURE INFORMATION



- insomnia is a api-client (like postman just for free)
- testing our api routes (backend)
- CRUD routes





./SRC/PROJECT/APPS

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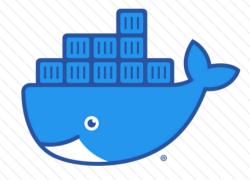


./SRC/PROJECT/APP/SPEC

What the ...?











./SRC/PROJECT/TEC



./SRC/PROJECT/TEC/SPEC

How the ...?



























./SRC/PROJECT/TEC/SPEC

Versioning?







./SRC/PROJECT/CODE

```
if (questions.length > 0) {
    questions.forEach (question => {
        question.answer();
    });
} else {
    return phil.thanks();
}
```