PRÁTICAS AVANÇADAS EM DESENVOLVIMENTO WEB

Agenda

- Adicionar user e senha Mongo
- Criar .bat iniciar MongoDB
- Criar JS acesso ao MongoDB
 - Criar rota de cadastro
 - Criar rota de edição
 - Criar rota buscar por nome
- Revisão
- Gamification

Add user Mongo

- Baixar mongo Shell https://www.mongodb.com/try/download/shell
- Executar mongoSH
 - Informar URI-> mongodb://127.0.0.1/27017
 - Executar comando: use admin

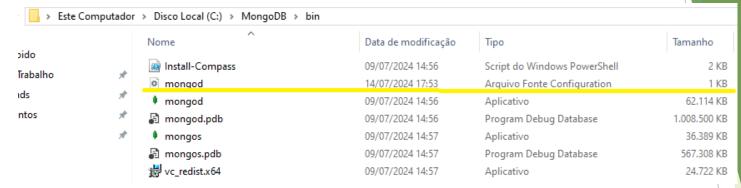
```
27017> use admin
switched to db admin
```

Criar user ADMIN, executar comando:

Criar user mongodb

Add user Mongo

No windows criar arquivo mongod.cfg e salvar na pasta BIN



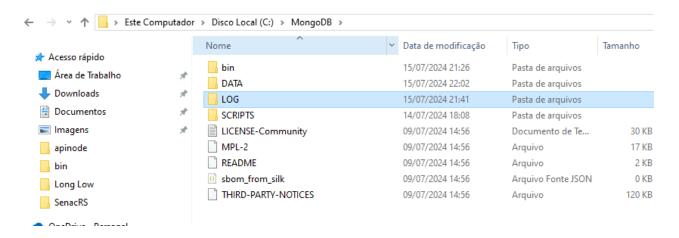
- Abrir o arquivo mongod.cfg e adicionar os parâmetros configuração
 - Parâmetro segurança
 - Parâmetro storage
 - Parâmetro SystemLog

```
1 security:
2  authorization: enabled
3
4 storage:
5  dbPath: C:\MongoDB\DATA
6
7
8 systemLog:
9  destination: file
path: C:\MongoDB\LOG\mongod.log
1 logAppend: true
```

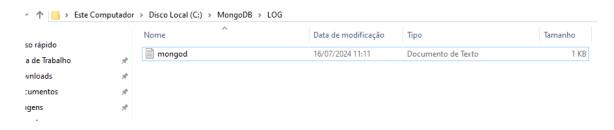
- Criar pasta LOG na raiz da pasta MongoDB
- Reiniciar Mongodb

Add user Mongo

Criar pasta LOG na raiz da pasta MongoDB



Criar o arquivo mongodb.log dentro da pasta LOG

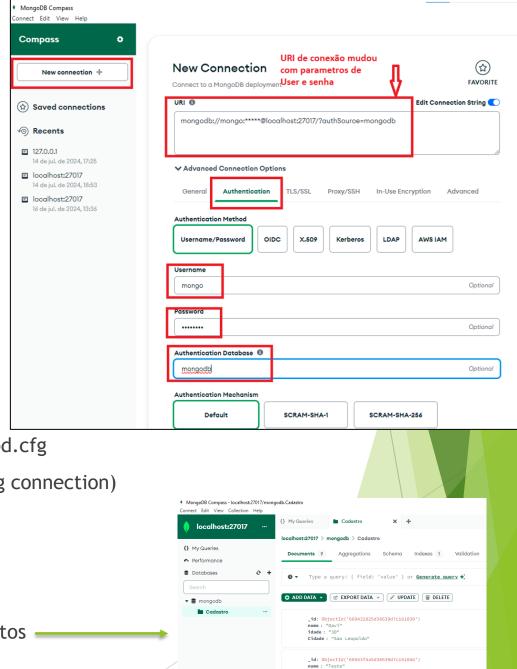


Reiniciar Mongodb passando os parametros

```
C:\MongoDB\bin>mongod.exe --config ../bin/mongod.cfg
```

Mongo Compass

- Abrir o Mongo Compass
- Clicar em New connection
- Na aba Authentication
 - Preencher Username
 - Preencher Password
 - Preencher Authentication Database
- Subir o MongoDB
 - Abrar um novo CMD
 - Acessar o diretório do MongoDB/bin
 - Executar o comando mongod.exe --config ../bin/mongod.cfg
 - Validar se o MongoDB iniciou (Waiting connection)
- Clicar em Connect
- Acesse o banco mongodb
 - Abra a collection Cadastro
 - Verifique se está aparecendo os documentos



Cidade: "Sao Paulo"

Criar .bat para iniciar o MongoDB

- Criar uma pasta SCRIPT na raiz do MongoDB
 - Abrir um CMD
 - Acessar a pasta do MongoDB
 executar comando <u>cd C:\MongoDB\SCRIPTS</u>
- Criar arquivo StartMongoDB.bat dentro da pasta SCRIPTS
 - Via CMD executar o comando <u>echo > StartMongoDB.bat</u>
 - ► Abrir o arquivo StartMongoDB.bat no editor de texto
 - Escrever o código abaixo
- Via CMD executar o StartMongoDB.bat
- Acessar a pasta C:\MongoDB\SCRIPTS
- Executar o comando <u>StartMongoDB.bat</u>
- Acessar a pasta C:\MongoDB\LOG
- Verificar se o arquivo está sendo preenchido

```
echo off
    setlocal enabledelayedexpansion
    echo [Starting MongoDB...]
    cd C:\MongoDB\bin
    mongod.exe --config mongod.cfg
 8
    cd C:\MongoDB\SCRIPTS
10
11
    :start
12
    echo [MongoDB is running...]
13
    cd C:\MongoDB\SCRIPTS
14
    timeout /t 300 /nobreak
15
    goto start
```

Buscar dados banco

Criar arquivo db.js

```
刘 File Edit Selection View Go Run Terminal Help

∠ apinode

       EXPLORER
                                        JS server.js • {} package.json
                                                                           JS InserirRegistros.js • JS db.js

✓ APINODE

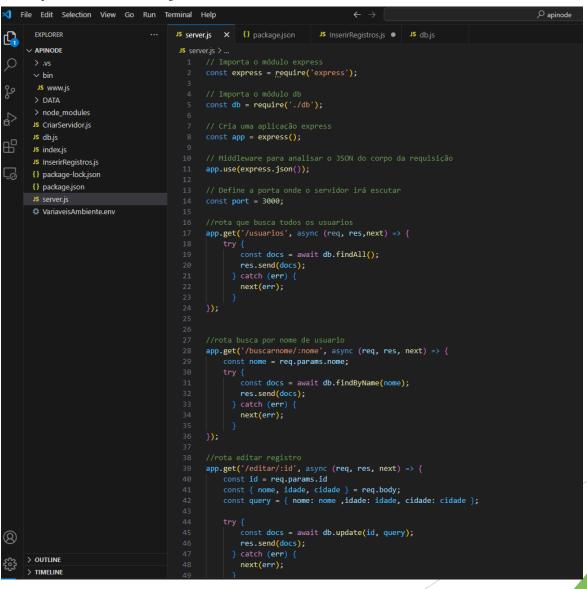
                                         JS db.js > [@] <unknown>
       > .vs
                                                const { MongoClient, ObjectId } = require("mongodb");

→ bin

       JS www.js
                                               let singleton;
       > DATA
       > node_modules
      JS CriarServidor.js
                                                const MONGO_HOST = 'mongodb://mongo:12qwaszx@localhost:27017/?authSource=mongodb';
      JS db.js
                                                const MONGO DATABASE = 'mongodb';
      JS index.js
      JS InserirRegistros.js
                                               const COLLECTION = "Cadastro";
     {} package-lock.json
      {} package.json
                                               async function connect() {
      JS server.js
                                                    if (singleton) return singleton;
      VariaveisAmbiente.env
                                                    const client = new MongoClient(MONGO HOST);
                                                    await client.connect();
                                                    singleton = client.db(MONGO_DATABASE);
                                                    return singleton;
                                                async function findAll() {
                                                    const db = await connect();
                                                    return db.collection(COLLECTION).find().toArray();
                                                async function findByName(nome) {
                                                    const query = { nome: nome };
                                                    const db = await connect();
                                                    return db.collection(COLLECTION).find(query).toArray();
                                                async function insertOne(query) {
                                                    const db = await connect();
                                                    return db.collection(COLLECTION).insertOne(query);
                                                async function update(id, query) {
                                                    const db = await connect();
                                                    return db.collection(COLLECTION).updateOne({ _id: ObjectId.createFromHexString(id) }, { $set: query });
                                                module.exports = { findAll , findByName, insertOne, update}
```

Buscar dados banco

Editar arquivo server.js

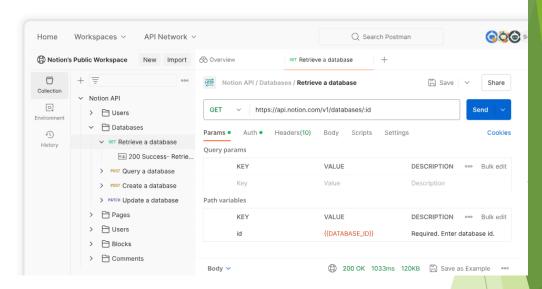


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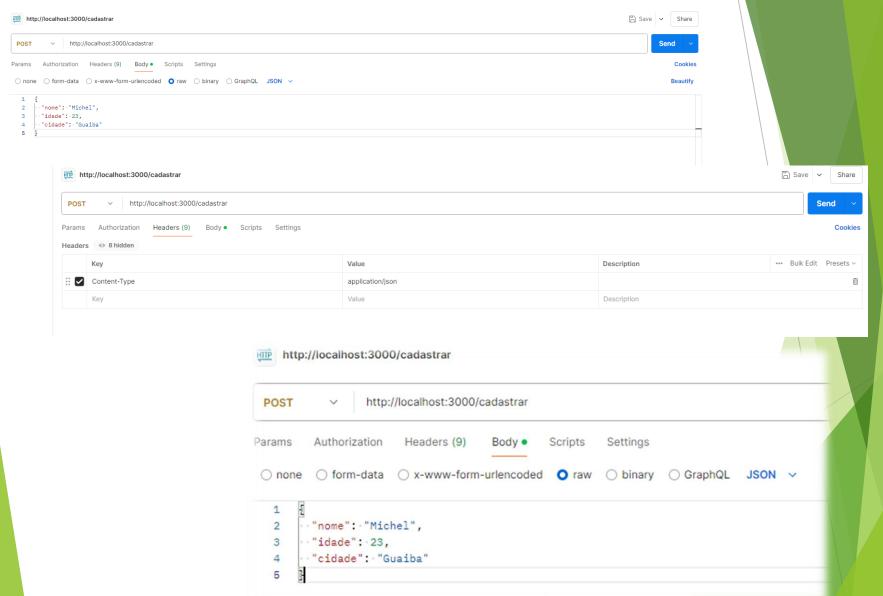
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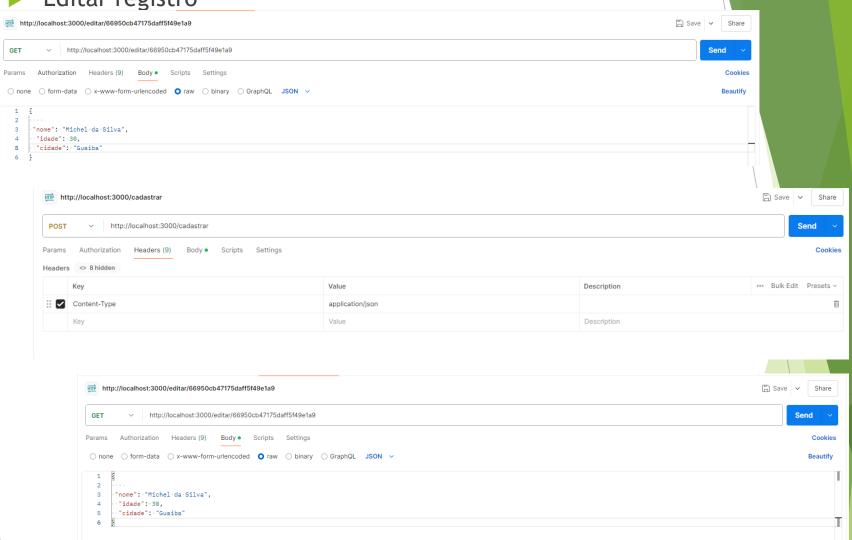
Postman

Cadastrar registro



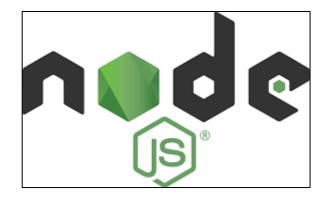
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Editar registro



Revisão

Nodejs_Mongo.pdf





Gamification

Nodejs_Mongo.pdf

