

Aula 07 Guide

Inicializar projeto node

```
npm init

name: aula07_api-node
version: (1.0.0)
description: Node.js Rest API c/ Express.
entry point: server.js
test command:
git repository:
keywords:
author: bezkoder
license: (ISC)
Is this ok? (yes) yes
```

Instalar packages

```
npm install express nodemon cors dotenv morgan --save
```

Adicionar script de start em package.json

```
"start": "nodemon --experimental-json-modules server.js"
```

Criar .env

```
SERVER_HOST=localhost
SERVER_PORT=3000
```

Criar server.js

```
// Importar node packages
import express from "express";
import cors from "cors";
import morgan from "morgan";
import "dotenv/config";

//TODO: ROUTES VÃO SER COLOCADOS AQUI!

//--REST SERVER--//
const app = express();

// Live Server CORS options
const corsOptions = {
  origin: "http://localhost:5500",
```

```
};
app.use(cors(corsOptions));

app.use(morgan("short")); // output dados de pedido HTTP

app.use(express.json()); // parse dados dos pedidos no content-type -
application/json

// correr server no url host:port definido em .env
app.listen(process.env.SERVER_PORT, process.env.SERVER_HOST, () => {
  console.log(
    "Server up and running at http://%s:%s",
    process.env.SERVER_HOST,
    process.env.SERVER_PORT
  );
});
```

Criar `data.json`

```
{
  "nome": "Tiago Fernandes",
  "data_nascimento": "25/03/1999",
  "localidade": "Viana do Castelo",
  "habilit_academicas": [
    {
      "grau": "Ensino Superior",
      "instituicao": "IPVC - ESTG",
      "tipo_curso": "Licenciatura",
      "nome_curso": "ERSC",
      "ano_inicio": 2017,
      "ano_fim": 2020
    },
    {
      "grau": "Ensino Secundário",
      "instituicao": "Escola Secundária de Monserrate",
      "tipo_curso": "Científico-Humanístico",
      "nome_curso": "Ciências e Tecnologias",
      "ano_inicio": 2014,
      "ano_fim": 2017
    }
  ],
  "habilit_profissionais": ["Servente de Mesa", "Recepcionista"],
  "projetos": []
}
```

Adicionar `Router`

```
//..imports
import fs from "fs";
```

```
import Router from "express";

//--ROUTES--//
const router = Router();

const datajson = fs.readFileSync("data.json", "utf-8"); // Read string-json from
file
const data = JSON.parse(datajson); // Parse to JSON

// GET all data method route
router.get("/", (req, res) => {
  res.send(data);
});

// GET nome data method route
router.get("/nome", (req, res) => {
  res.send(data.nome);
});

// GET habilit_academicas method route
router.get("/habilit_academicas", (req, res) => {
  res.send(data.habilit_academicas);
});

// POST new data method route
router.post("/new_data", (req, res) => {
  const new_dataJSON = {
    name: req.body.name,
    data: req.body.data,
  };

  new_data = JSON.stringify(new_dataJSON); // Stringify JSON data

  fs.writeFileSync("new_data.json", new_data, "utf-8"); // Write to file

  res.send("added new data successfully!"); // status response
});
```