

Programação Web

Novo Projeto

```
C:\Windows\System32\cmd.exe
(c) Microsoft Corporation. Todos os direitos reservados.

C:\web22_manha\revenda>npm init -y
Wrote to C:\web22_manha\revenda\package.json:

{
  "name": "revenda",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

C:\web22_manha\revenda>
```

```
C:\Windows\System32\cmd.exe

C:\web22_manha\revenda>npm i express
added 57 packages, and audited 58 packages in 3s

7 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

C:\web22_manha\revenda>npm i --save-dev nodemon
added 32 packages, and audited 90 packages in 3s

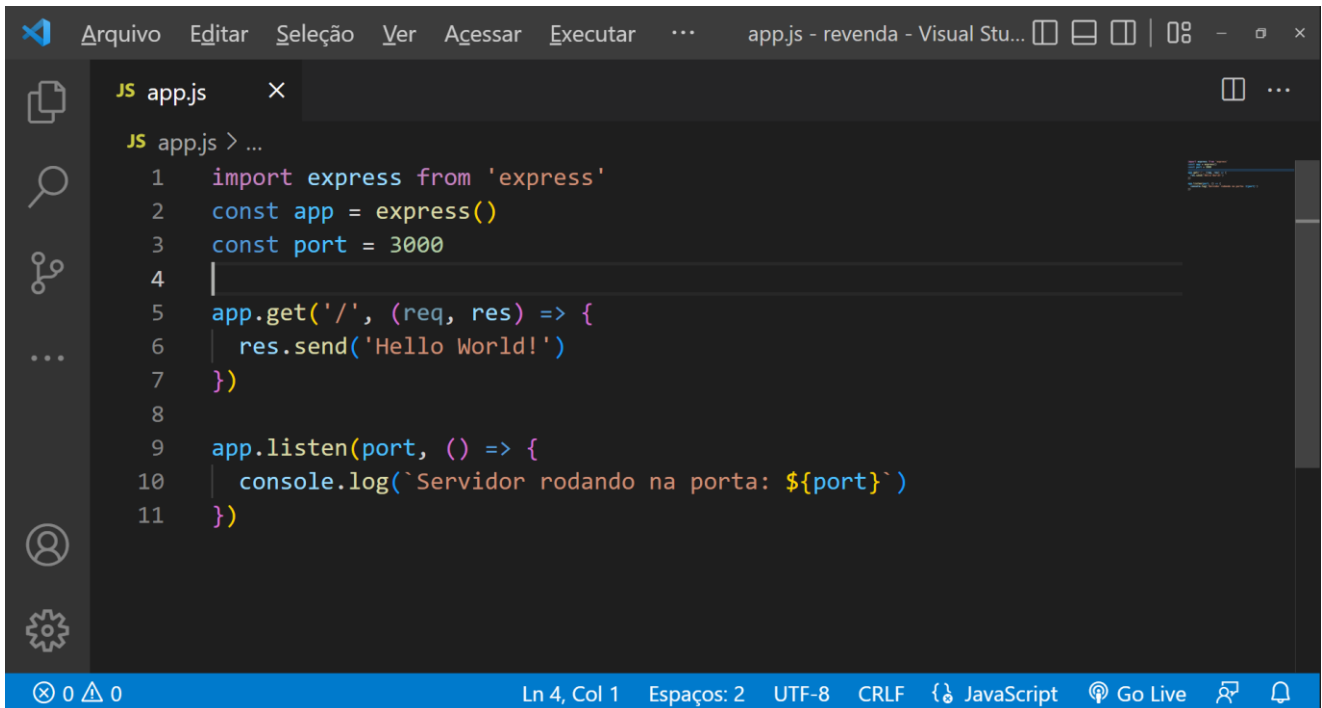
10 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

C:\web22_manha\revenda>code .
```

- Criar o arquivo app.js

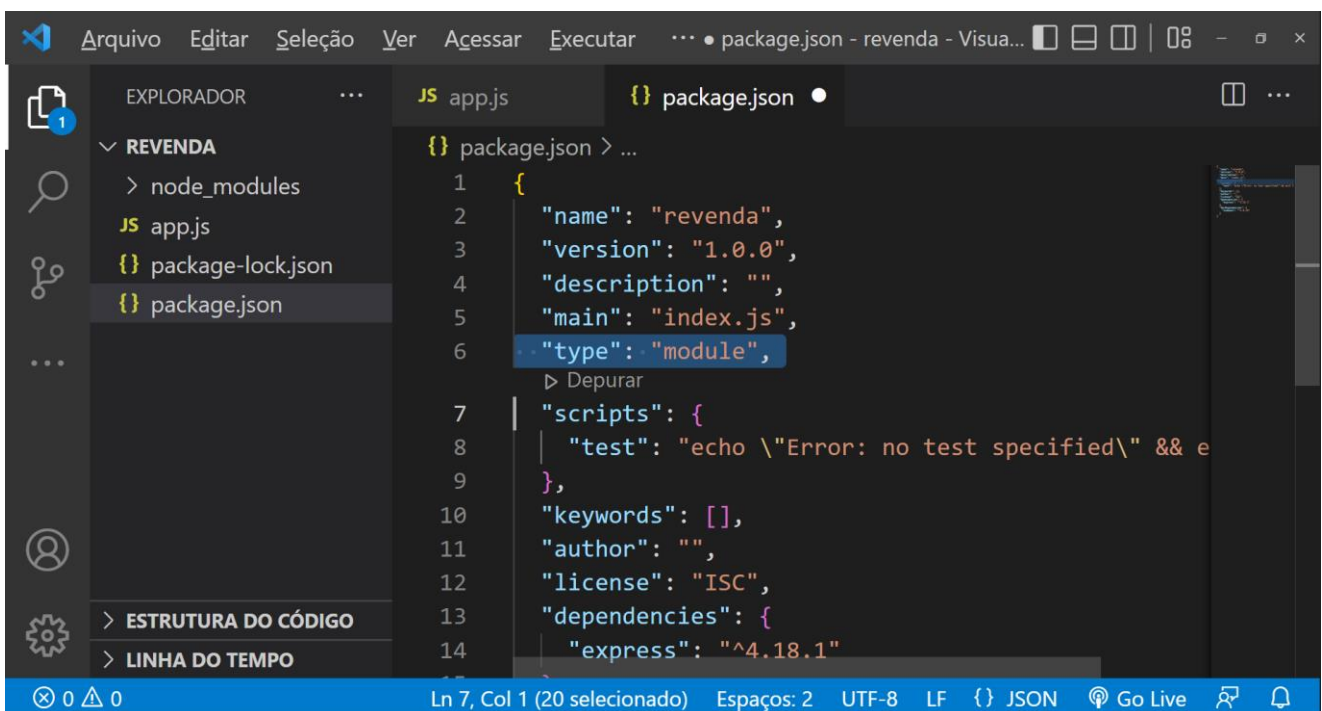
- Copiar o código de exemplo do "Hello World" do express.js (<https://expressjs.com/en/starter/hello-world.html>)



The screenshot shows the Visual Studio Code editor with the file 'app.js' open. The code is as follows:

```
1 import express from 'express'
2 const app = express()
3 const port = 3000
4
5 app.get('/', (req, res) => {
6   res.send('Hello World!')
7 })
8
9 app.listen(port, () => {
10   console.log(`Servidor rodando na porta: ${port}`)
11 })
```

The status bar at the bottom indicates 'Ln 4, Col 1', 'Espaços: 2', 'UTF-8', 'CRLF', and 'JavaScript'.



The screenshot shows the Visual Studio Code editor with the 'package.json' file open. The code is as follows:

```
{
  "name": "revenda",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "type": "module",
  "scripts": {
    "test": "echo \"Error: no test specified\" && e
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "express": "^4.18.1"
  }
}
```

The status bar at the bottom indicates 'Ln 7, Col 1 (20 selecionado)', 'Espaços: 2', 'UTF-8', 'LF', and 'JSON'.

```
C:\Windows\system32\cmd.exe
found 0 vulnerabilities

C:\web22_manha\revenda>npm i --save-dev nodemon

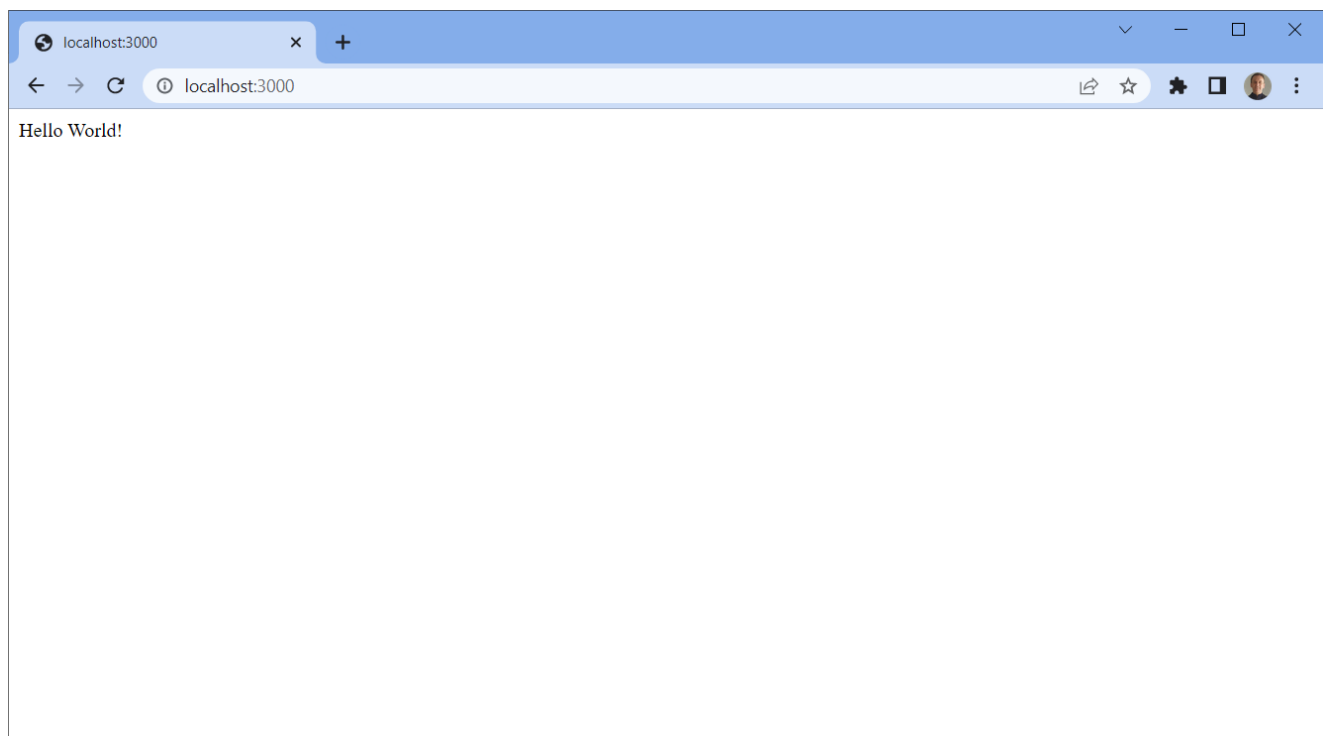
added 32 packages, and audited 90 packages in 3s

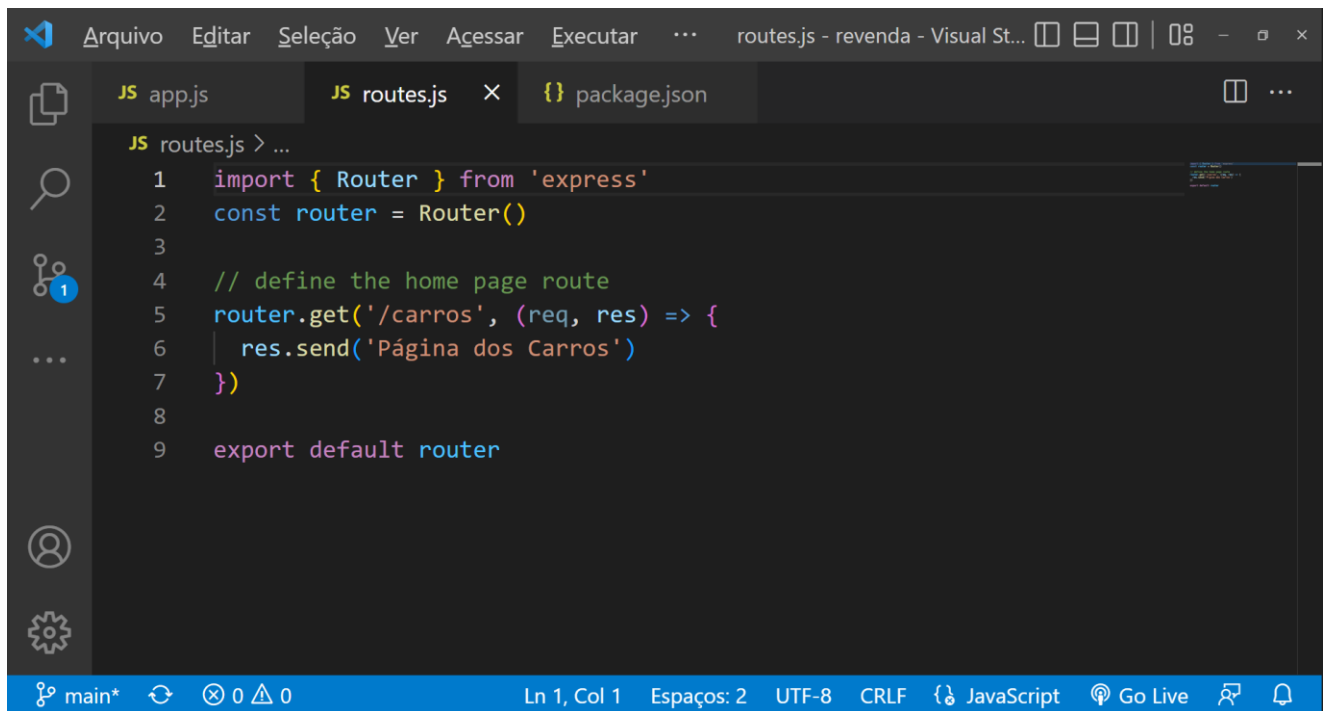
10 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

C:\web22_manha\revenda>code .

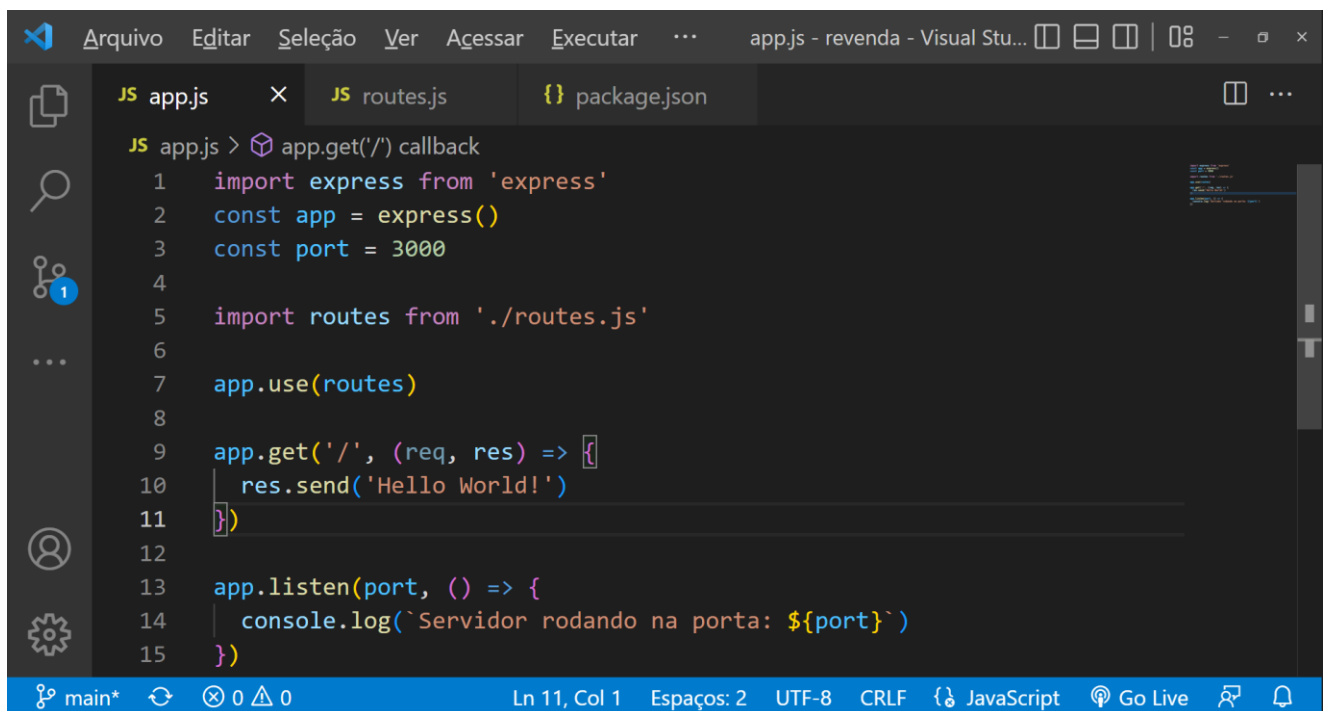
C:\web22_manha\revenda>npx nodemon app
[nodemon] 2.0.19
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node app.js`
Servidor rodando na porta: 3000
```





The screenshot shows the Visual Studio Code editor with the 'routes.js' file open. The editor has a dark theme and a sidebar on the left with icons for Explorer, Search, Source Control, and Run and Debug. The top menu bar includes 'Arquivo', 'Editar', 'Seleção', 'Ver', 'Acessar', 'Executar', and a dropdown menu. The status bar at the bottom shows 'main*', 'Ln 1, Col 1', 'Espaços: 2', 'UTF-8', 'CRLF', 'JavaScript', 'Go Live', and a bell icon.

```
JS routes.js > ...
1  import { Router } from 'express'
2  const router = Router()
3
4  // define the home page route
5  router.get('/carros', (req, res) => {
6    res.send('Página dos Carros')
7  })
8
9  export default router
```



The screenshot shows the Visual Studio Code editor with the 'app.js' file open. The editor has a dark theme and a sidebar on the left with icons for Explorer, Search, Source Control, and Run and Debug. The top menu bar includes 'Arquivo', 'Editar', 'Seleção', 'Ver', 'Acessar', 'Executar', and a dropdown menu. The status bar at the bottom shows 'main*', 'Ln 11, Col 1', 'Espaços: 2', 'UTF-8', 'CRLF', 'JavaScript', 'Go Live', and a bell icon.

```
JS app.js > app.get('/') callback
1  import express from 'express'
2  const app = express()
3  const port = 3000
4
5  import routes from './routes.js'
6
7  app.use(routes)
8
9  app.get('/', (req, res) => {
10    res.send('Hello World!')
11  })
12
13  app.listen(port, () => {
14    console.log(`Servidor rodando na porta: ${port}`)
15  })
```

Knex e SQLite

```
C:\Windows\System32\cmd.exe

C:\web22_manha\revenda>npm i knex

up to date, audited 148 packages in 2s

20 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

C:\web22_manha\revenda>npm i better-sqlite3

up to date, audited 148 packages in 1s

20 packages are looking for funding
  run `npm fund` for details

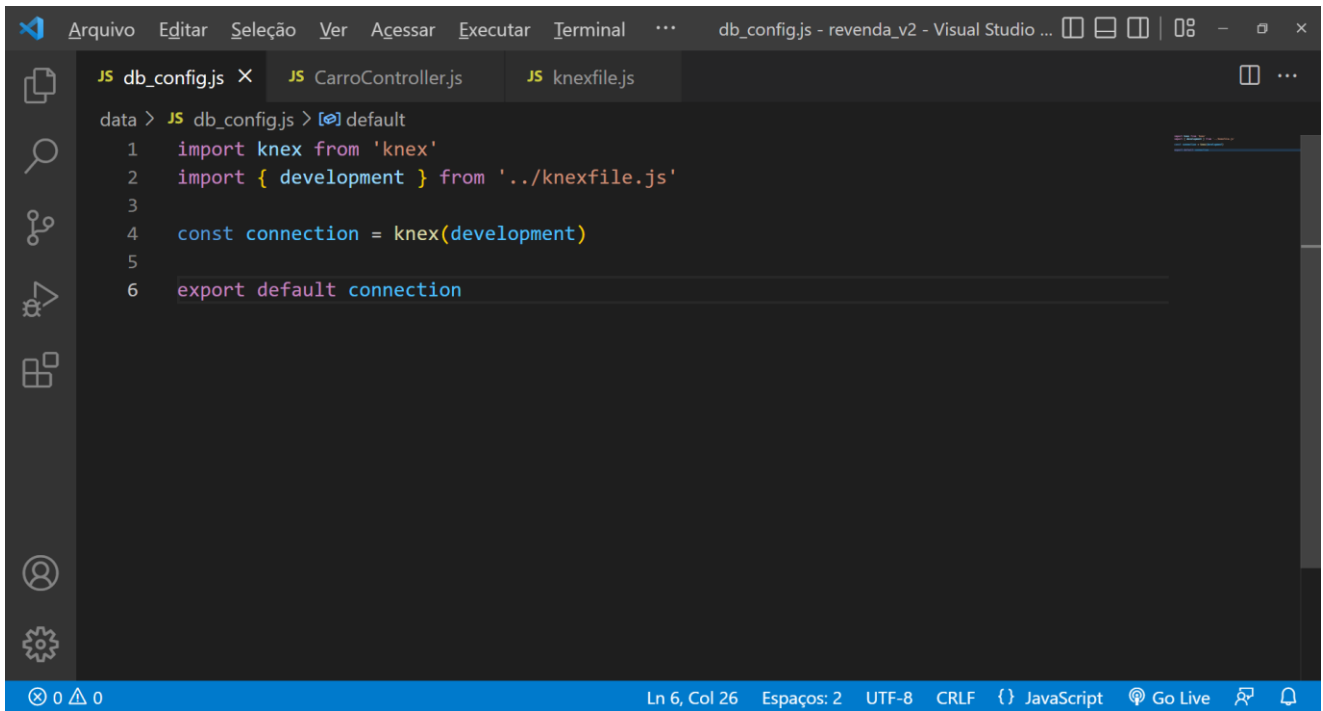
found 0 vulnerabilities

C:\web22_manha\revenda>npx knex init
Created ./knexfile.js

C:\web22_manha\revenda>
```

```
Arquivo  Editar  Seleção  Ver  Acessar  Executar  Terminal  Ajuda  knexfile.js - Visual Studio Code

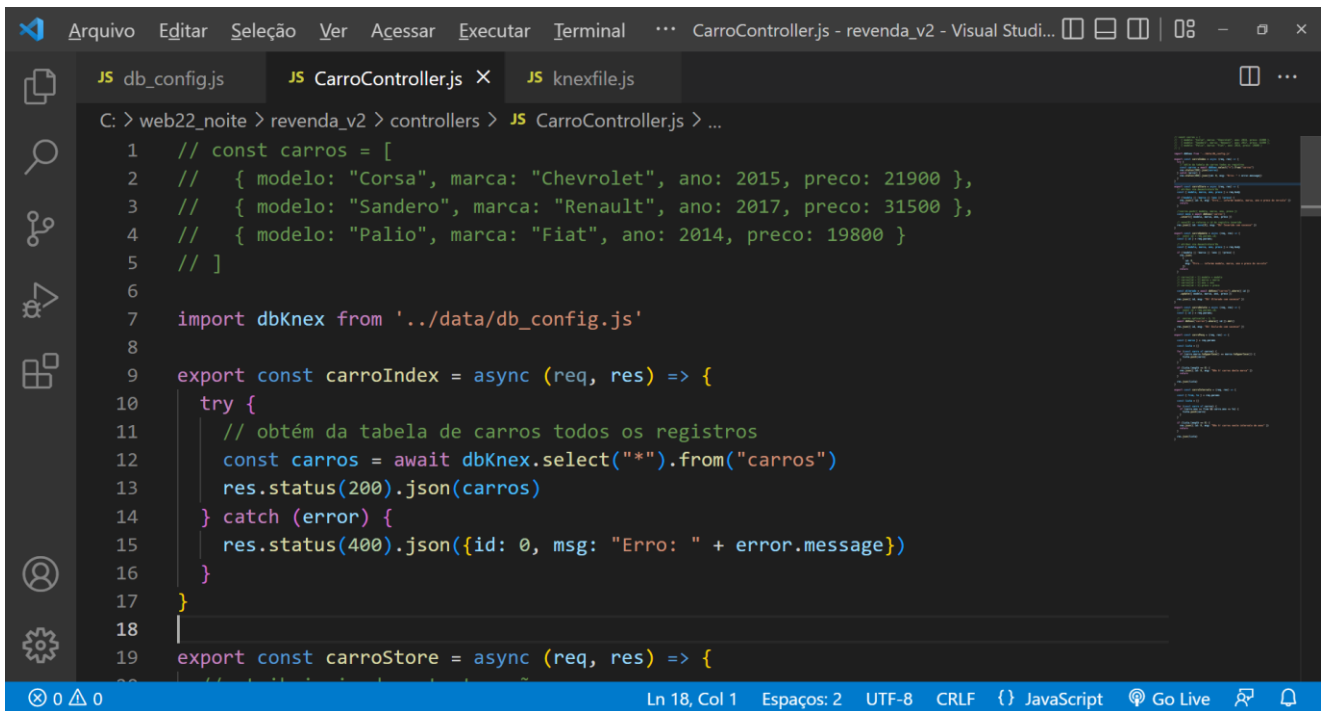
JS knexfile.js X
C: > web22_manha > revenda_v2 > JS knexfile.js > ...
1  export const development = {
2    client: 'better-sqlite3',
3    connection: {
4      filename: './data/revenda.sqlite3'
5    },
6    useNullAsDefault: true
7  };
8
9  // não necessários (por enquanto)
10 export const staging = {
11   client: 'postgresql',
12   connection: {
13     database: 'my_db',
14     user: 'username',
15     password: 'password'
16   },
17   pool: {
18     min: 2,
19     max: 10
20   }
21 }
```



The screenshot shows the Visual Studio Code editor with the file `db_config.js` open. The editor has a dark theme and a sidebar on the left with icons for Explorer, Search, Source Control, Run and Debug, Extensions, and Settings. The top menu bar includes Arquivo, Editar, Seleção, Ver, Acessar, Executar, and Terminal. The file explorer shows three files: `db_config.js`, `CarroController.js`, and `knexfile.js`. The code in `db_config.js` is as follows:

```
data > JS db_config.js > [0] default
1 import knex from 'knex'
2 import { development } from '../knexfile.js'
3
4 const connection = knex(development)
5
6 export default connection
```

The status bar at the bottom indicates the current position is Line 6, Column 26, with 2 spaces, UTF-8 encoding, CRLF line endings, and the file is a JavaScript file. There are also icons for Go Live, a bug report, and a notification bell.



The screenshot shows the Visual Studio Code editor with the file `CarroController.js` open. The editor has a dark theme and a sidebar on the left with icons for Explorer, Search, Source Control, Run and Debug, Extensions, and Settings. The top menu bar includes Arquivo, Editar, Seleção, Ver, Acessar, Executar, and Terminal. The file explorer shows three files: `db_config.js`, `CarroController.js`, and `knexfile.js`. The code in `CarroController.js` is as follows:

```
C: > web22_noite > revenda_v2 > controllers > JS CarroController.js > ...
1 // const carros = [
2 //   { modelo: "Corsa", marca: "Chevrolet", ano: 2015, preco: 21900 },
3 //   { modelo: "Sandero", marca: "Renault", ano: 2017, preco: 31500 },
4 //   { modelo: "Palio", marca: "Fiat", ano: 2014, preco: 19800 }
5 // ]
6
7 import dbKnex from '../data/db_config.js'
8
9 export const carroIndex = async (req, res) => {
10   try {
11     // obtém da tabela de carros todos os registros
12     const carros = await dbKnex.select("*").from("carros")
13     res.status(200).json(carros)
14   } catch (error) {
15     res.status(400).json({id: 0, msg: "Erro: " + error.message})
16   }
17 }
18
19 export const carroStore = async (req, res) => {
```

The status bar at the bottom indicates the current position is Line 18, Column 1, with 2 spaces, UTF-8 encoding, CRLF line endings, and the file is a JavaScript file. There are also icons for Go Live, a bug report, and a notification bell.