Energy Monitor 🔋 📊

Tech Challenge - Graduate/Pós-Graduação

GitHub Repository: https://github.com/igorgrv/energyMonitor-graduate

About 📖

Welcome to Energy Monitor! An innovative project that combines the powerful technologies of:

- Java 17;
- Maven;
- Spring Boot;
- Spring Validation;
- Lombok;

Postman collection

Pos_tech-energyMonitor-graduate.postman_collection.json

Inputs/outputs ☕

- BaseUrl: http://localhost:8080

Location/Address 🏠

Find All Locations

- Request: `GET -> {baseUrl}/locations`

- Input: `N/A`

- Output:

```
// HTTP 200
[
  {
    "address": "Rua 2",
    "number": 2,
    "neighborhood": "Ipanema",
    "city": "Rio de Janeiro",
    "state": "Rio de Janeiro"
  },
  {
    "address": "Rua 3",
    "number": 3,
    "neighborhood": "Camanducaia",
    "city": "Belo Horizonte",
    "state": "Minas Gerais"
  },
  {
    "address": "Rua 1",
    "number": 1,
    "neighborhood": "Vila Olímpia",
    "city": "São Paulo",
    "state": "São Paulo"
  }
]
```

FindBy City

- Request: `GET -> {baseUrl}/locations/{city}`

- Input: `GET -> {baseUrl}/locations /` **são paulo**

- Output:

```
// HTTP 200
{
  "address": "Rua 1",
  "number": 1,
  "neighborhood": "Vila Olímpia",
  "city": "São Paulo",
  "state": "São Paulo"
}
```

Create

- Request: `POST -> {baseUrl}/locations`

- Input:

```
{
  "address": "Rua 4",
  "number": 1,
  "neighborhood": "Vila Olímpia",
  "city": "São Paulo",
  "state": "SP"
}
```

- Output:

```
// HTTP 201
{
  "address": "Rua 4",
  "number": 1,
  "neighborhood": "Vila Olímpia",
  "city": "São Paulo",
  "state": "São Paulo"
}
```

Delete

- Request: `DELETE -> {baseUrl}/locations`
- Input:

```
{
    "address": "Rua 1",
    "number": 1,
    "neighborhood": "Vila Olímpia",
    "city": "São Paulo",
    "state": "SP"
 }
```

- Output:

```
// 200
Location was deleted
```

User 👥

Find All Users

- Request: `GET -> {baseUrl}/users`

- Input: `N/A`

- Output:

```
// HTTP 200
[
  {
    "name": "Vlad",
    "birth": "1986-03-08",
    "gender": "MALE",
    "relative": "SON"
  },
  {
    "name": "Joao",
    "birth": "1996-03-08",
    "gender": "MALE",
    "relative": "FATHER"
  },
  {
    "name": "Maria",
    "birth": "1996-03-08",
    "gender": "FEMALE",
    "relative": "MOTHER"
  }
]
```

FindBy Name

- Request: `GET -> {baseUrl}/users/{name}`

- Input: `GET -> {baseUrl}/users /` **joão**

- Output:

```
// HTTP 200
{
  "name": "Joao",
  "birth": "1996-03-08",
  "gender": "MALE",
  "relative": "FATHER"
}
```

Create

- Request: `POST -> {baseUrl}/users`

- Input:

```
{
  "name": "Joao2",
  "birth": "1996-03-08",
  "gender": "MALE",
  "relative": "SON"
}
```

- Output:

```
// HTTP 201
{
    "name": "Joao2",
    "birth": "1996-03-08",
    "gender": "MALE",
    "relative": "SON"
}
```

Delete

- Request: `DELETE -> {baseUrl}/users`
- Input:

```
{
    "name": "Joao",
    "birth": "1996-03-08",
    "gender": "MALE",
    "relative": "FATHER"
}
```

- Output:

```
// 200
User was deleted
```

Appliance 📺

Find All Appliances

- Request: `GET -> {baseUrl}/appliances`
- Input: `N/A`

- Output:

```
// HTTP 200
[
  {
    "name": "XBOX",
    "model": "Series X",
    "watts": 100
  },
  {
    "name": "Playstation",
    "model": "Verison 5",
    "watts": 100
  },
  {
    "name": "TV",
    "model": "Samsung QN85A",
    "watts": 100
  }
]
```

FindBy Name

- Request: GET -> {baseUrl}/appliances/{applianceName}
- Input: GET -> {baseUrl}/appliances/ **xbox**
- Output:

```
// HTTP 200
{
  "name": "XBOX",
  "model": "Series X",
  "watts": 100
}
```

Create

- Request: `POST -> {baseUrl}/appliances`
- Input:

```json
{
  "name": "XBOX",
  "model": "Series ONE",
  "watts": 100
}
```

- Output:

```json
// HTTP 201
{
  "name": "XBOX",
  "model": "Series ONE",
  "watts": 100
}
```

Delete

- Request: `DELETE -> {baseUrl}/appliances`
- Input:

```json
{
  "name": "XBOX",
  "model": "Series ONE",
  "watts": 100
}
```

- Output:

```
// 200
Appliance was deleted
```