

Energy Monitor

Tech Challenge - Graduate/Pós-Graduação

GitHub: <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;

FASE 1 – inputs/outputs

- BaseUrl: <http://localhost:8080>

Location/Address

Find All Locations

- Request: GET -> `{baseUrl}/location/findAll`
 - 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}/location/findBy/city/{city}
- Input: GET -> {baseUrl}/location/findBy/city/ **são paulo**
- Output:

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

Create

- Request: POST -> {baseUrl}/location/create
- Input:

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

- Output:

```
// HTTP 200
{
  "address": "Rua 4",
  "number": 1,
  "neighborhood": "Vila Olímpia",
  "city": "São Paulo",
  "state": "São Paulo"
}
```

Delete

- Request: DELETE -> {baseUrl}/location/delete
- Input:

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

- Output:

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

User

Find All Locations

- Request: GET -> {baseUrl}/user/findAll
- 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}/user/findBy/name/{name}
- Input: GET -> {baseUrl}/user/findBy/name/ **joão**
- Output:

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

Create

- Request: POST -> {baseUrl}/user/create
- Input:

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

- Output:

```
// HTTP 200
{
  "name": "Joao2",
  "birth": "1996-03-08",
  "gender": "MALE",
  "relative": "SON"
}
```

Delete

- Request: DELETE -> {baseUrl}/user/delete
- Input:

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

- Output:

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

Appliance

Find All Locations

- Request: GET -> {baseUrl}/appliance/findAll
- 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}/appliance/findBy/name/{applianceName}
- Input: GET -> {baseUrl}/appliance/findBy/name/ **xbox**
- Output:

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

Create

- Request: POST -> {baseUrl}/appliance/create
- Input:

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

- Output:

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


Delete

- Request: DELETE -> {baseUrl}/appliance/delete

- Input:

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

- Output:

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