

Consumo

POST /Consumo Cria um novo consumo.

Parameters

Try it out

No parameters

Request body

application/json

Dados do consumo a ser criado.

Example Value | Schema

```
{
  "id": 1,
  "valorEmKwh": 100.5,
  "nome": "Exemplo de Consumo",
  "local": "Local de Exemplo"
}
```

Responses

Code	Description	Links
201	Retorna o consumo recém-criado.	No links
400	Se o valor de consumo em Kwh for zero ou negativo.	No links
	Media type text/plain	
	Example Value Schema	
	O consumo em Kwh deve ser maior que 0!	
500	Se ocorrer um erro interno no servidor.	No links

GET /Consumo Obtém todos os consumos.

Parameters

Try it out

No parameters

Responses

Code	Description	Links
200	Retorna a lista de consumos.	No links
	<pre>{ "id": 1, "valorEmKwh": 100.5, "nome": "Exemplo de Consumo", "local": "Local de Exemplo" }, { "id": 1, "valorEmKwh": 100.5, "nome": "Exemplo de Consumo", "local": "Local de Exemplo" }</pre>	
404	Se nenhum consumo for encontrado.	No links
	Media type text/plain	
	Example Value Schema	
	Nenhum consumo cadastrado no nosso banco de dados!	
500	Se ocorrer um erro interno no servidor.	No links

GEI

/Consumo/{id} Obtem um consumo pelo ID.

Parameters

Try it out

Name	Description
id * required integer(\$int32) (path)	ID do consumo.
<input type="text" value="id"/>	

Responses

Code	Description	Links
200	<pre>{ "id": 1, "valorEmKwh": 100.5, "nome": "Exemplo de Consumo", "local": "Local de Exemplo" }</pre>	No links
404	Se o consumo não for encontrado. Nenhum consumo com esse id encontrado no nosso banco de dados!	No links
500	Se ocorrer um erro interno no servidor.	No links

Health

GEI

/Health

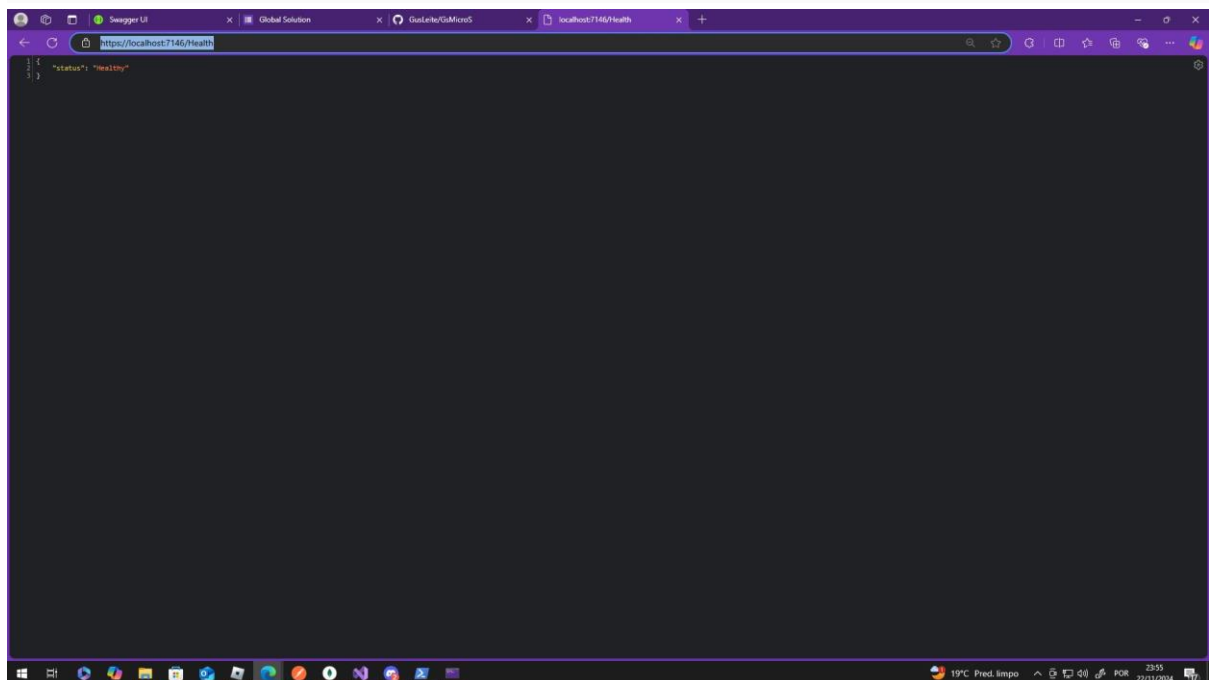
Parameters

Try it out

No parameters

Responses

Code	Description	Links
200	Success	No links



GET https://localhost:7146/co POST https://localhost:7146/co + ...

https://localhost:7146/consumo

POST https://localhost:7146/consumo Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary JSON

```
1 {
2   "id": 5,
3   "valorEmKwh": 100,
4   "nome": "Teste",
5   "local": "SP"
6 }
```

Body Cookies Headers (5) Test Results Status: 201 Created Time: 525 ms Size: 260 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 8533965,
3   "valorEmKwh": 100,
4   "nome": "Teste",
5   "local": "SP"
6 }
```

GET https://localhost:7146/co POST https://localhost:7146/co + ...

https://localhost:7146/consumo

GET https://localhost:7146/consumo Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings

Query Params

Key	Value
Key	Value

Body Cookies Headers (4) Test Results Status: 200 OK Time: 13 ms Size: 260 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 0,
4     "valorEmKwh": 0,
5     "nome": "string",
6     "local": "string"
7   },
8   {
9     "id": 1,
10    "valorEmKwh": 100,
11    "nome": "Teste",
12    "local": "SP"
13  }
14 }
```

```

1 using GDI;
2 using Moq; // Adicione este using
3 using System;
4 using System.Collections.Generic;
5 using System.Linq;
6 using System.Text;
7 using System.Threading.Tasks;
8 using Xunit; // Adicione este using
9 using Microsoft.AspNetCore.Mvc; // Adicione este using
10 using Microsoft.AspNetCore.Mvc.Abstractions; // Adicione este using
11 using FluentAssertions; // Adicione este using
12
13 namespace GoSTests
14 {
15     [TestFixture]
16     public class ConsumoControllerTests
17     {
18         private readonly Mock<MongoDBService> _mockMongoDBService;
19         private readonly Mock<RedisCacheService> _mockRedisCacheService;
20         private readonly ConsumoController _controller;
21
22         [SetUp]
23         public ConsumoControllerTests()
24         {
25             _mockMongoDBService = new Mock<MongoDBService>();
26             _mockRedisCacheService = new Mock<RedisCacheService>();
27             _controller = new ConsumoController(_mockMongoDBService.Object, _mockRedisCacheService.Object);
28         }
29
30         [Fact]
31         public async Task Create_ShouldReturnBadRequest_WhenValorEmWhIsZero()
32         {
33             var consumo = new Consumo { Id = 1, ValorEmWh = 0, Nome = "Teste", Local = "Local" };
34             var result = await _controller.Create(consumo);
35             result.Should().BeOfType<BadRequestResult>();
36         }
37
38         [Fact]
39         public async Task Get_ShouldReturnOk_WhenDataIsCached()
40         {
41             var cacheKey = "consumos";
42             var cachedData = "[{"Id":1,"ValorEmWh":100,"Nome":"Teste","Local":"Local"}]";
43             _mockRedisCacheService.Setup(r => r.GetCacheAsync(cacheKey)).ReturnsAsync(cachedData);
44             var result = await _controller.Get();
45             result.Should().BeOfType<OkObjectResult>();
46         }
47
48         [Fact]
49         public async Task GetById_ShouldReturnNotFound_WhenConsumoDoesNotExist()
50         {
51             _mockMongoDBService.Setup(m => m.GetAsync()).ReturnsAsync(new List<Consumo>());
52             var result = await _controller.GetById(1);
53             result.Should().BeOfType<NotFoundResult>();
54         }
55     }
56 }

```

Não foi encontrado nenhum problema

Ln: 31 Car: 8

```

1 using GDI;
2 using Moq;
3 using Xunit;
4 using Microsoft.Extensions.Options;
5 using MongoDB.Driver;
6 using System.Threading.Tasks;
7 using FluentAssertions;
8
9 [TestFixture]
10 public class MongoDBServiceTests
11 {
12     private readonly MongoDBService _mongoDBService;
13     private readonly Mock<MongoCollection<Consumo>> _mockCollection;
14
15     [SetUp]
16     public MongoDBServiceTests()
17     {
18         var settings = Options.Create(new MongoDBSettings
19         {
20             ConnectionString = "mongodb://localhost:27017",
21             DatabaseName = "testdb",
22             CollectionName = "testcollection"
23         });
24
25         var mockClient = new Mock<MongoClient>();
26         var mockDatabase = new Mock<MongoDatabase>();
27         _mockCollection = new Mock<MongoCollection<Consumo>>();
28
29         mockClient.Setup(c => c.GetDatabase(It.IsAny<string>(), null)).Returns(mockDatabase.Object);
30         mockDatabase.Setup(d => d.GetCollection<Consumo>(It.IsAny<string>(), null)).Returns(_mockCollection.Object);
31         _mongoDBService = new MongoDBService(settings);
32     }
33
34     [Fact]
35     public async Task CreateAsync_ShouldInsertConsumo()
36     {
37         var consumo = new Consumo { Id = 1, ValorEmWh = 100, Nome = "Teste", Local = "Local" };
38         await _mongoDBService.CreateAsync(consumo);
39         _mockCollection.Verify(c => c.InsertOneAsync(consumo, null, default), Times.Once);
40     }
41 }

```

Running tests...

Test Name: Create_ShouldReturnBadRequest_WhenValorEmKwhIsZero

Result: Passed

Output: BadRequestObjectResult

Test Name: Get_ShouldReturnOk_WhenDataIsCached

Result: Passed

Output: OkObjectResult

Test Name: GetById_ShouldReturnNotFound_WhenConsumoDoesNotExist

Result: Passed

Output: NotFoundResult

All tests passed successfully.

Running tests...

Test Name: CreateAsync_ShouldInsertConsumo

Result: Passed

Output: InsertOneAsync called once with Consumo object

All tests passed successfully.