

**ANO  
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**UNINTER**

## **Trabalho Acadêmico**

**Arquitetura e Desenvolvimento de  
APIs  
v1.2**

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# Instruções de Submissão do Trabalho Acadêmico

**Disciplina: Arquitetura e Desenvolvimento de API's – WebAPIs**

## **Descrição:**

API construída em C# que possibilita o cadastro, consulta, atualização e exclusão de informações sobre empresas e funcionários.

## **Tecnologias utilizadas:**

Linguagem de Programação	C#
Framework	.NET 10 (ASP.NET Core Web API)
Banco de Dados	MySQL Docker
ORM	Entity Framework Core
Documentação	Swagger (Swashbuckle.AspNetCore)
Testes	Swagger UI
Padrão de Projeto	DDD (Domain, Driver, Design)
IDE utilizada	Visual Studio Code

## Evidências:

### Empresa

#### GET

Curl

```
curl -X 'GET' \
'http://localhost:5157/api/Empresa' \
-H 'accept: */*'
```

Request URL

<http://localhost:5157/api/Empresa>

Server response

Code Details

200 Response body

```
[{"id": 1, "name": "Amazon", "cnpj": "1112234554649", "quantidadeFuncionarios": 2}, {"id": 2, "name": "Google", "cnpj": "44618234971522", "quantidadeFuncionarios": 1000}, {"id": 3, "name": "Microsoft", "cnpj": "44612884612873", "quantidadeFuncionarios": 792}, {"id": 4, "name": "Oracle", "cnpj": "55310753816485", "quantidadeFuncionarios": 697}]
```

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 17 Dec 2025 23:24:56 GMT
server: Kestrel
transfer-encoding: chunked
```

Ativar o Windows  
Acesse Configurações para ativar o Windows

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#### POST

### 200

Responses

Curl

```
curl -X 'POST' \
'http://localhost:5157/api/Empresa' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Bayar",
  "cnpj": "14523696587410",
  "quantidadeFuncionarios": 20
}'
```

Request URL

<http://localhost:5157/api/Empresa>

Server response

Code Details

200 Response headers

```
content-length: 0
date: Wed, 17 Dec 2025 23:26:44 GMT
server: Kestrel
```

### 400

#### Responses

Curl

```
curl -X 'POST' \
'http://localhost:5157/api/Empresa' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Bayar",
  "cnpj": "1452369658710",
  "quantidadeFuncionarios": 20
}'
```

Request URL

<http://localhost:5157/api/Empresa>

Server response

Code Details

400 Undocumented Error: Bad Request

Response body

```
Internal server error: CNPJ deve conter 14 caracteres.
```

Response headers

```
content-type: text/plain; charset=utf-8
date: Wed, 17 Dec 2025 23:27:11 GMT
server: Kestrel
transfer-encoding: chunked
```

## PUT

200

### Responses

#### Curl

```
curl -X 'PUT' \
'http://localhost:5157/api/Empresa/5' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Bayer",
  "cnpj": "74589636521445",
  "quantidadeFuncionarios": 1000
}'
```

#### Request URL

```
http://localhost:5157/api/Empresa/5
```

#### Server response

Code	Details
200	Response headers

200

#### Response headers

```
content-length: 0
date: Wed, 17 Dec 2025 23:28:50 GMT
server: Kestrel
```



400

### Responses

#### Curl

```
curl -X 'PUT' \
'http://localhost:5157/api/Empresa/5' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Bayer",
  "cnpj": "74589636521445",
  "quantidadeFuncionarios": 1000
}'
```

#### Request URL

```
http://localhost:5157/api/Empresa/5
```

#### Server response

Code	Details
400	Undocumented Error: Bad Request

#### Response body

```
Internal server error: CNPJ deve conter 14 caracteres.
```



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#### Response headers

```
content-type: text/plain; charset=utf-8
date: Wed, 17 Dec 2025 23:30:06 GMT
server: Kestrel
transfer-encoding: chunked
```

## Evidências DELETE

200

### Responses

#### Curl

```
curl -X 'DELETE' \
'http://localhost:5157/api/Empresa/1' \
-H 'accept: */*'
```

#### Request URL

```
http://localhost:5157/api/Empresa/1
```

#### Server response

Code	Details
200	Response headers

200

#### Response headers

```
content-length: 0
date: Thu, 18 Dec 2025 00:56:42 GMT
server: Kestrel
```

422

## Responses

### Curl

```
curl -X 'DELETE' \
'http://localhost:5157/api/Empresa/7' \
-H 'accept: */*'
```

### Request URL

```
http://localhost:5157/api/Empresa/7
```

### Server response

Code Details

422

Unprocessable Entity

#### Response body

```
Empresa não encontrada.
```

 

#### Response headers

```
content-type: text/plain; charset=utf-8
date: Thu, 18 Dec 2025 23:30:55 GMT
server: Kestrel
transfer-encoding: chunked
```

# Fucionário

## GET

## Responses

### Curl

```
curl -X 'GET' \
'http://localhost:5157/api/Fucionario' \
-H 'accept: */*'
```

### Request URL

```
http://localhost:5157/api/Fucionario
```

### Server response

Code Details

200

#### Response body

```
[]
```

 

#### Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 18 Dec 2025 00:59:28 GMT
server: Kestrel
transfer-encoding: chunked
```

## POST

## 200

## Responses

### Curl

```
curl -X 'POST' \
'http://localhost:5157/api/Fucionario' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "nome": "Neymar",
  "cpf": "12345678930",
  "contratoAtivo": 0
}'
```

### Request URL

```
http://localhost:5157/api/Fucionario
```

### Server response

Code Details

200

#### Response headers

```
content-length: 0
date: Thu, 18 Dec 2025 01:00:54 GMT
server: Kestrel
```

## 400

## Responses

### Curl

```
curl -X 'POST' \
'http://localhost:5157/api/Funcionario' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Neymar",
  "cpf": "1234567893",
  "contratoAtivo": 0
}'
```

### Request URL

<http://localhost:5157/api/Funcionario>

### Server response

[Code](#) [Details](#)

400

*Undocumented* Error: Bad Request

#### Response body

```
Internal server error: CPF deve conter 11 caracteres.
```



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#### Response headers

```
content-type: text/plain; charset=utf-8
date: Thu,18 Dec 2025 01:01:17 GMT
server: Kestrel
transfer-encoding: chunked
```

## PUT

### 200

## Responses

### Curl

```
curl -X 'PUT' \
'http://localhost:5157/api/Funcionario/1' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "Neymar Jr",
  "cpf": "12345678930",
  "contratoAtivo": 0
}'
```

### Request URL

<http://localhost:5157/api/Funcionario/1>

### Server response

[Code](#) [Details](#)

200

#### Response headers

```
content-length: 0
date: Thu,18 Dec 2025 01:03:12 GMT
server: Kestrel
```

## 400

## Responses

### Curl

```
curl -X 'PUT' \
'http://localhost:5157/api/Funcionario/2' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "name": "string",
  "cpf": "string",
  "contratoAtivo": 0
}'
```

### Request URL

<http://localhost:5157/api/Funcionario/2>

### Server response

[Code](#) [Details](#)

422

*Undocumented* Error: Unprocessable Entity

#### Response body

```
Funcionario não encontrado.
```



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#### Response headers

```
content-type: text/plain; charset=utf-8
date: Thu,18 Dec 2025 01:02:01 GMT
server: Kestrel
transfer-encoding: chunked
```

## Evidências DELETE

### 200

## Responses

### Curl

```
curl -X 'DELETE' \
'http://localhost:5157/api/Funcionario/1' \
-H 'accept: */*'
```

### Request URL

```
http://localhost:5157/api/Funcionario/1
```

### Server response

Code Details

200

### Response headers

```
content-length: 0
date: Thu, 18 Dec 2025 01:04:03 GMT
server: Kestrel
```

**422**

## Responses

### Curl

```
curl -X 'DELETE' \
'http://localhost:5157/api/Funcionario/2' \
-H 'accept: */*'
```

### Request URL

```
http://localhost:5157/api/Funcionario/2
```

### Server response

Code Details

422

*Undocumented* Error: Unprocessable Entity

### Response body

```
Funcionario não encontrado.
```

 

### Response headers

```
content-type: text/plain; charset=utf-8
date: Thu, 18 Dec 2025 01:03:43 GMT
server: Kestrel
transfer-encoding: chunked
```

Código-fonte comentado.

Disponível no github [jenifercmarques/ApiEmpresas](https://github.com/jenifercmarques/ApiEmpresas).

Caso deseje clonar diretamente: <https://github.com/jenifercmarques/ApiEmpresas.git>

OBS: Considerar a leitura do passo a passo no readme do projeto antes da execução do mesmo.