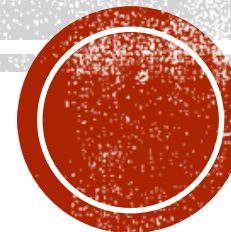


# ENCERRAMENTO DE BD

Conhecimentos , Habilidades e Atitudes



# FASES

- Design System
- Analista de Requisitos
- Administrador de Banco de Dados
- Desenvolvedor FullStack C#



# SITUAÇÃO PROBLEMA AVALIATIVA (CLINICA ROMULLUS)

- Um cliente necessita de um sistema que realize o controle de uma clinica ou hospital. Teremos que cadastrar o paciente, o médico e realizar o agendamento.
- 15 minutos apenas para identificar as entidades



# PROJETO FINAL PADARIA

- **HARDSKILLS**

- Desenvolvimento FullStack C#

- C#
    - Entity Framework
    - ASP.NET CORE
    - GITHUB
    - GIT INIT
    - GIT BRANCH
    - GIT MERGE

- **TRABALHAR EM EQUIPE.**

- **SOFTSKILLS**

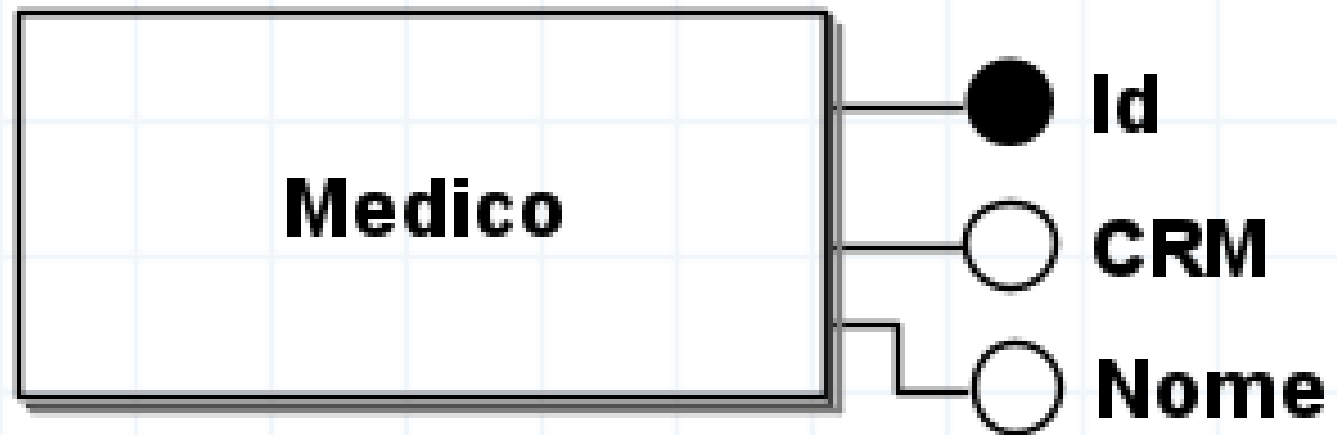
- COMPROMETIMENTO
    - TRABALHO EM EQUIPE
    - ENTREGA CONTÌNUA COM O TIME



- Cadastro de pacientes
- Cadastro de médicos
- Registro de consultas
- Registro de sinais vitais dos pacientes

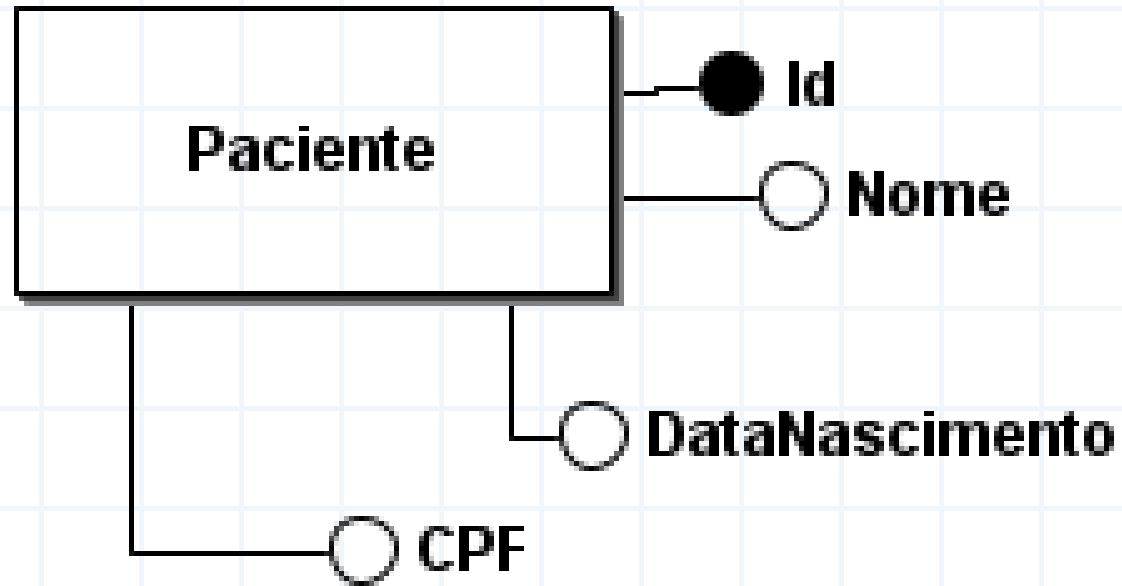
**20** minutos apenas para identificar as entidades





```
namespace SisMed.Models.Entities
{
    public class Medico
    {
        public int Id { get; set; }
        public string CRM { get; set; } = string.Empty;
        public string Nome { get; set; } = string.Empty;
        public ICollection<Consulta> Consultas { get; set; } = null!;
    }
}
```

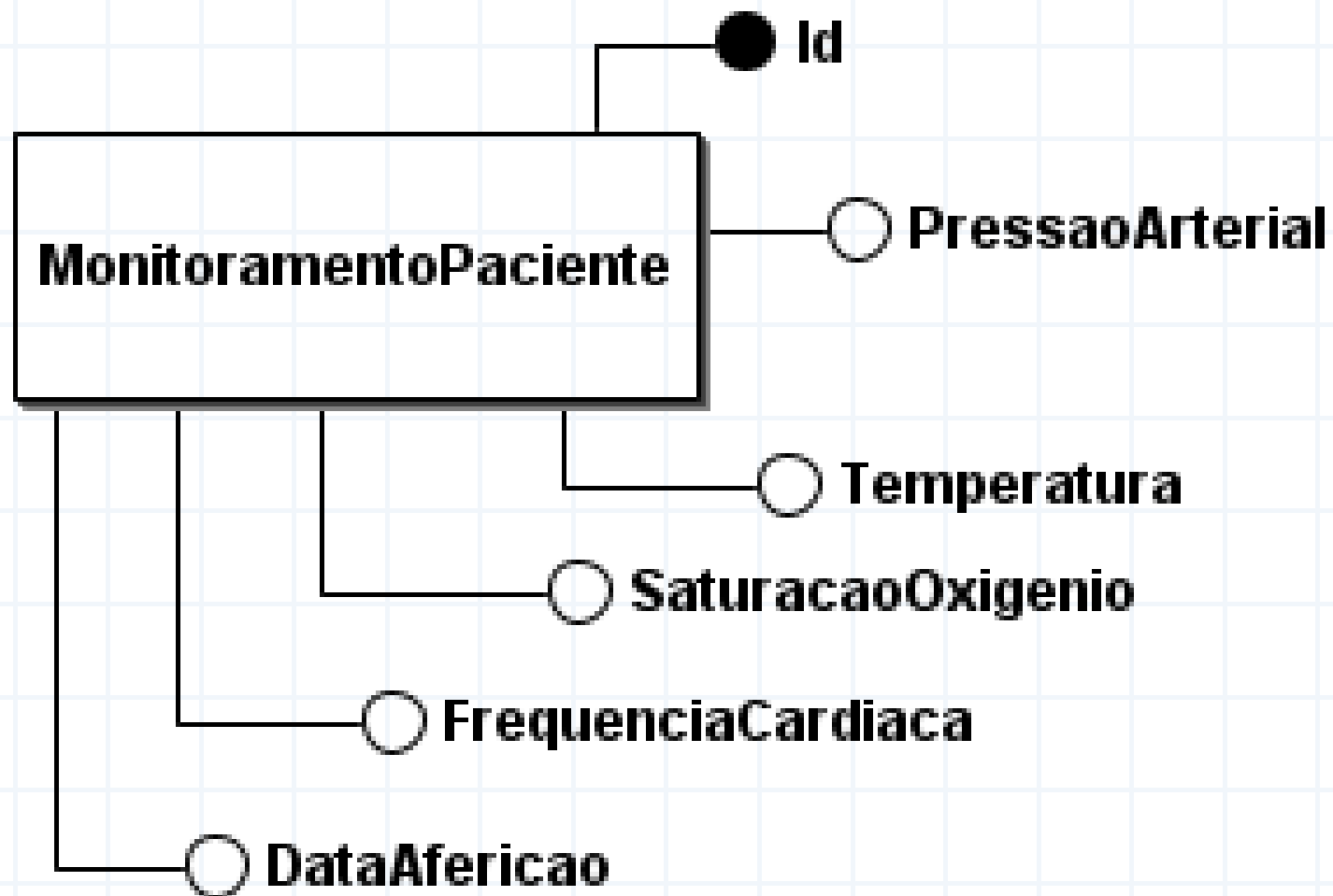






```
namespace SisMed.Models.Entities
{
    public class Paciente
    {
        public int Id { get; set; }
        public string CPF { get; set; } = string.Empty;
        public string Nome { get; set; } = string.Empty;
        public DateTime DataNascimento { get; set; }
        public InformacoesComplementaresPaciente? InformacoesComplementares { get; set; }
        public ICollection<MonitoramentoPaciente> Monitoramentos { get; set; } = null!;
        public ICollection<Consulta> Consultas { get; set; } = null!;
    }
}
```





```
namespace SisMed.Models.Entities
{
    public class MonitoramentoPaciente
    {
        public int Id { get; set; }
        public string PressaoArterial { get; set; } = string.Empty;
        public decimal Temperatura { get; set; }
        public int SaturacaoOxigenio { get; set; }
        public int FrequenciaCardiaca { get; set; }
        public DateTime DataAfericao { get; set; }
        public int IdPaciente { get; set; }
        public Paciente Paciente { get; set; } = null!;
    }
}
```



## **InformacoesComplementaresPaciente**



**Id**



**Alergias**



**MedicamentosEmUso**



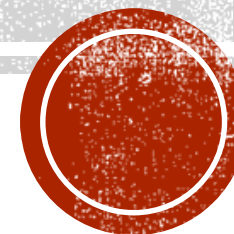
**CirurgiasRealizadas**

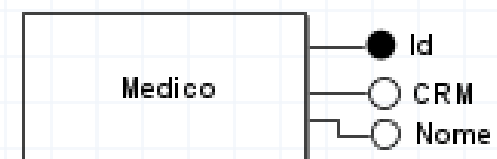
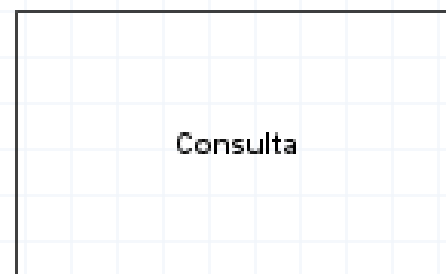
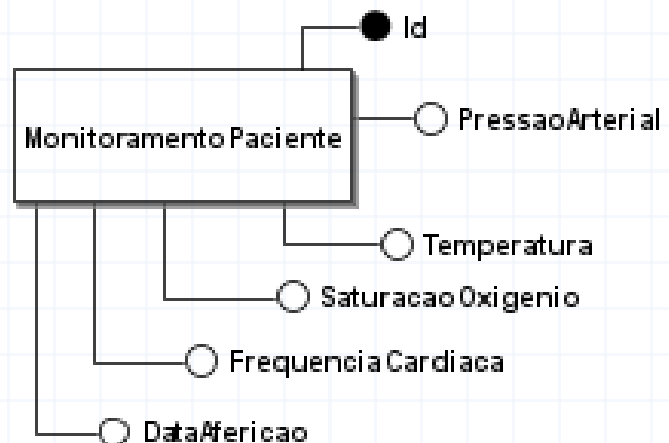
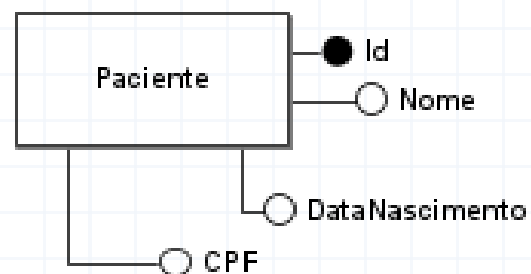


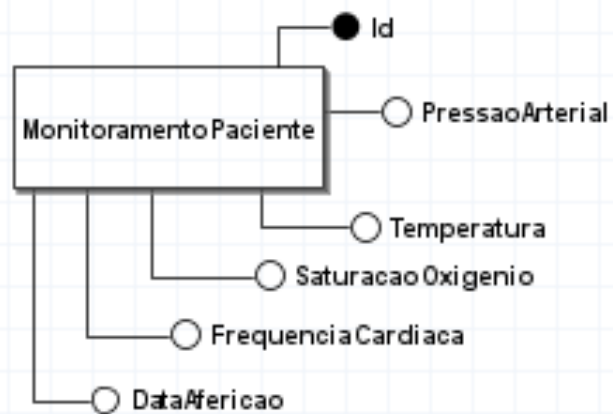
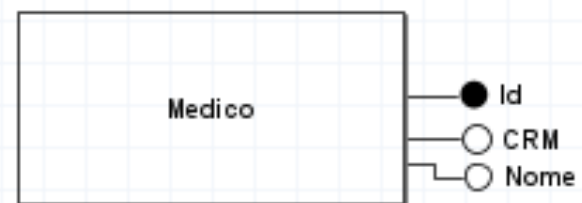
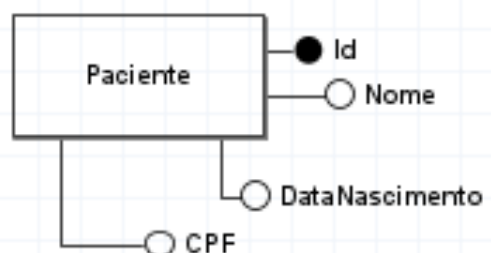
```
namespace SisMed.Models.Entities
{
    public class InformacoesComplementaresPaciente
    {
        public int Id { get; set; }
        public string? Alergias { get; set; }
        public string? MedicamentosEmUso { get; set; }
        public string? CirurgiasRealizadas { get; set; }
        public int IdPaciente { get; set; }
        public Paciente Paciente { get; set; } = null!;
    }
}
```



# A CEREJA DO BOLO





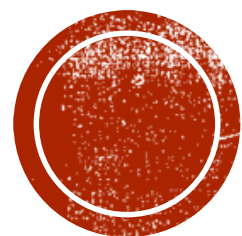




```
using SisMed.Models.Enums;

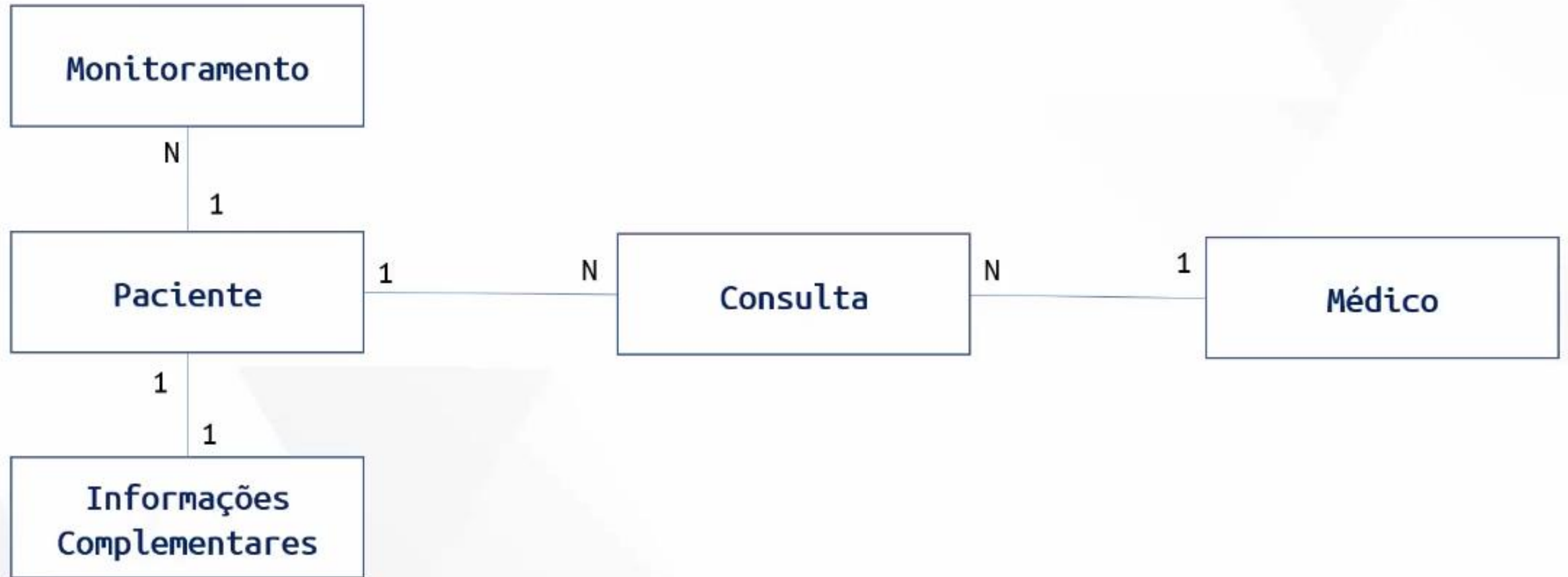
namespace SisMed.Models.Entities
{
    public class Consulta
    {
        public int Id { get; set; }
        public DateTime Data { get; set; }
        public TipoConsulta Tipo { get; set; }
        public int IdPaciente { get; set; }
        public int IdMedico { get; set; }
        public Paciente Paciente { get; set; } = null!;
        public Medico Medico { get; set; } = null!;
    }
}
```

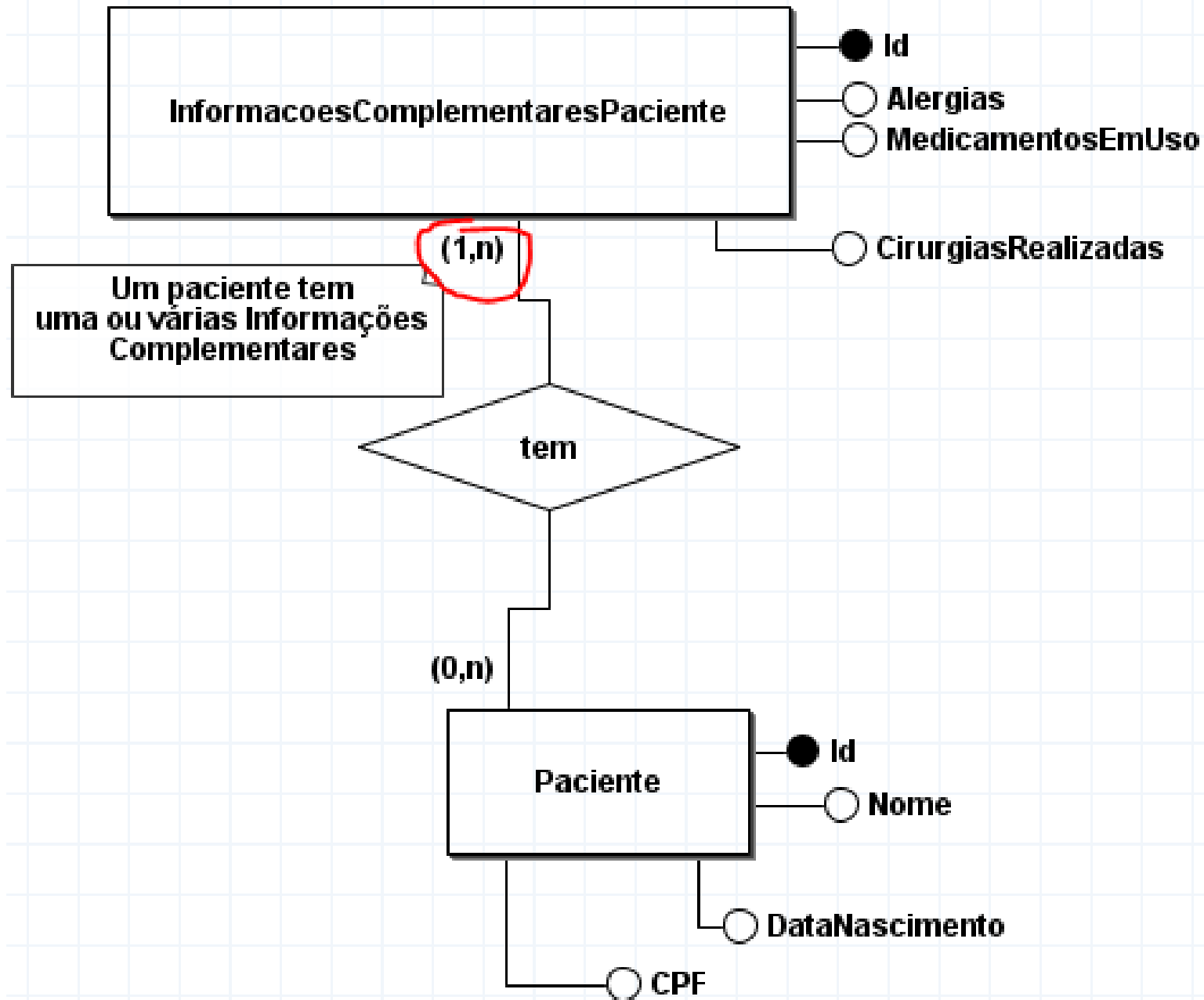


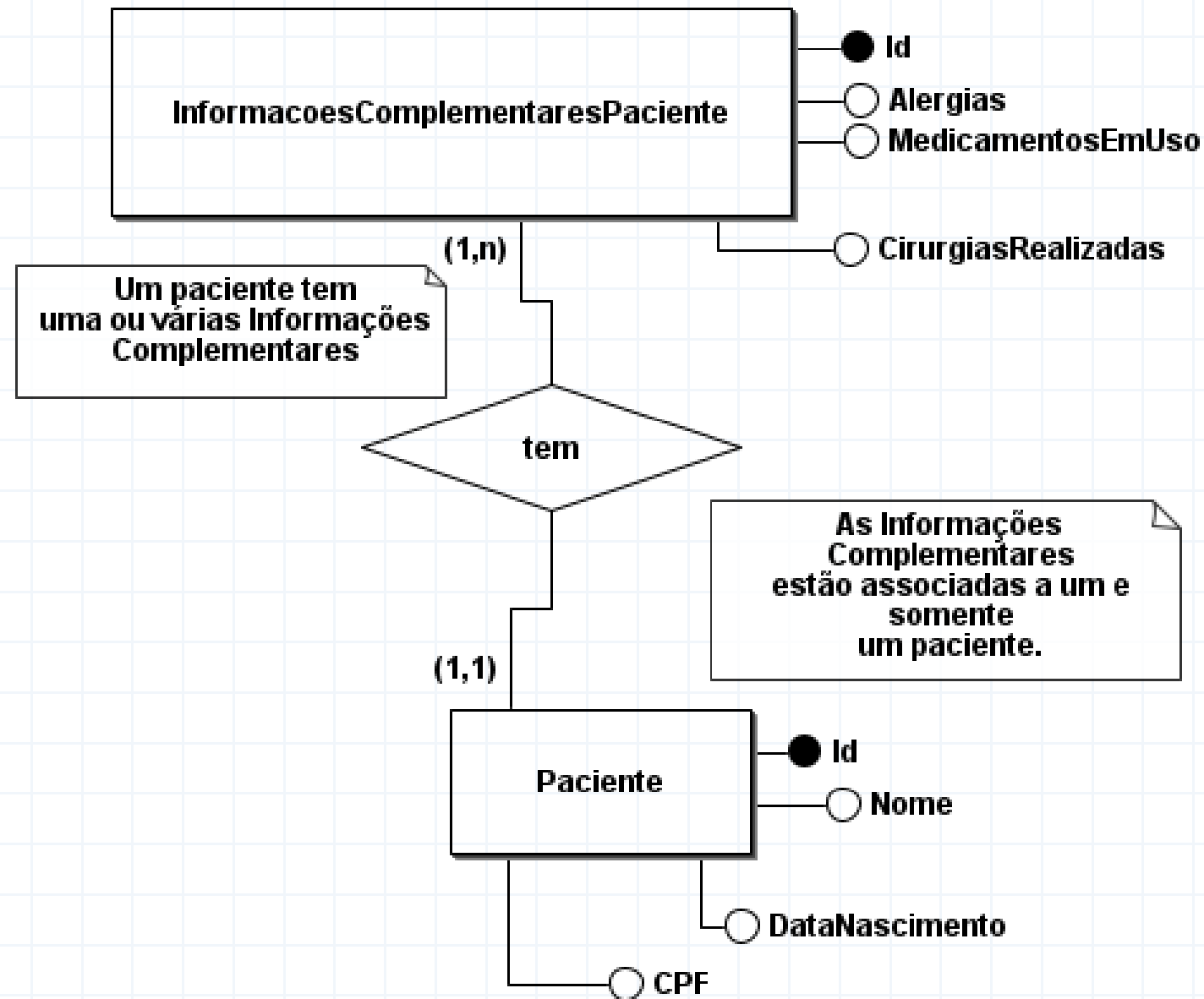


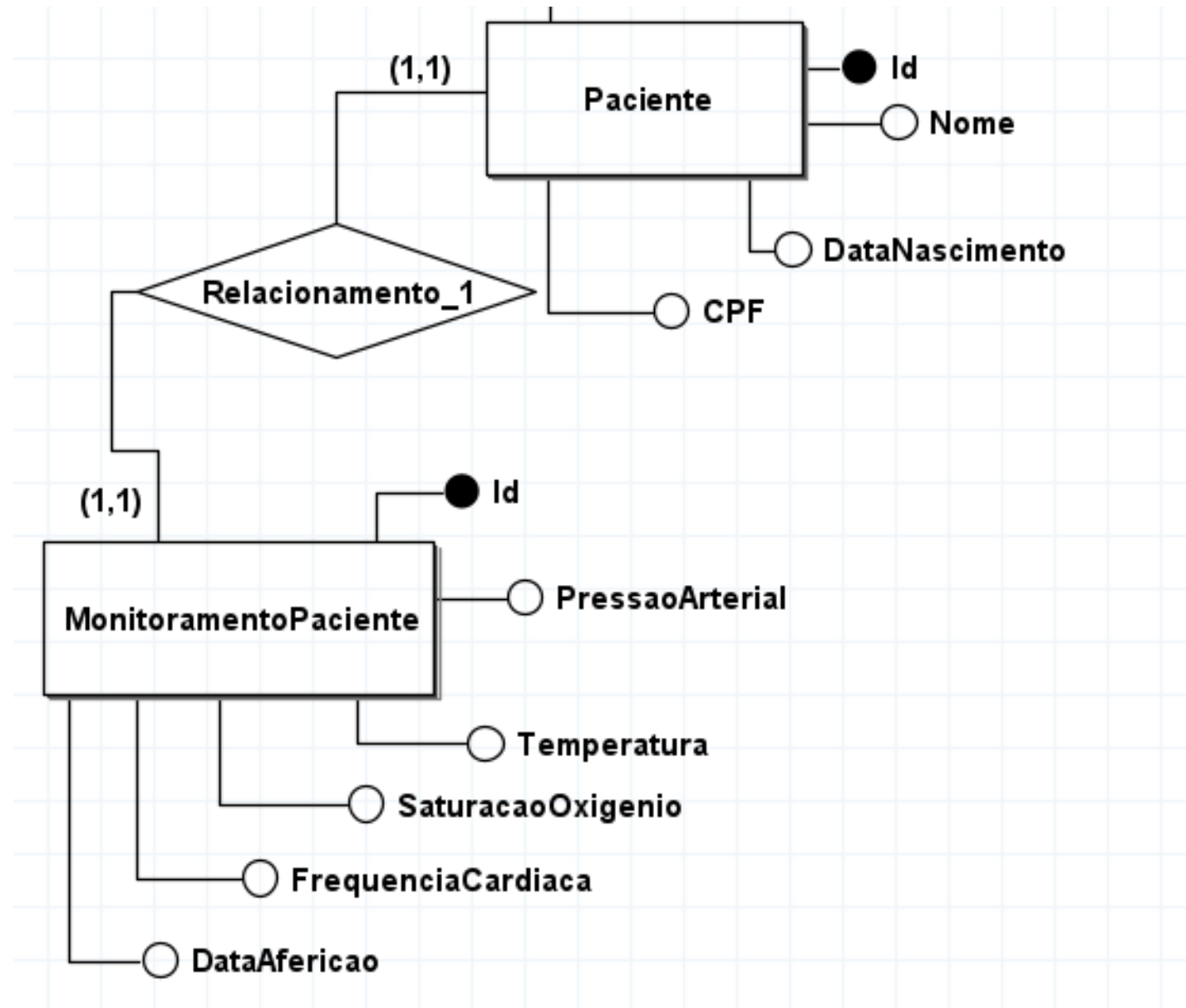
# ENTIDADE FORTE E FRACA

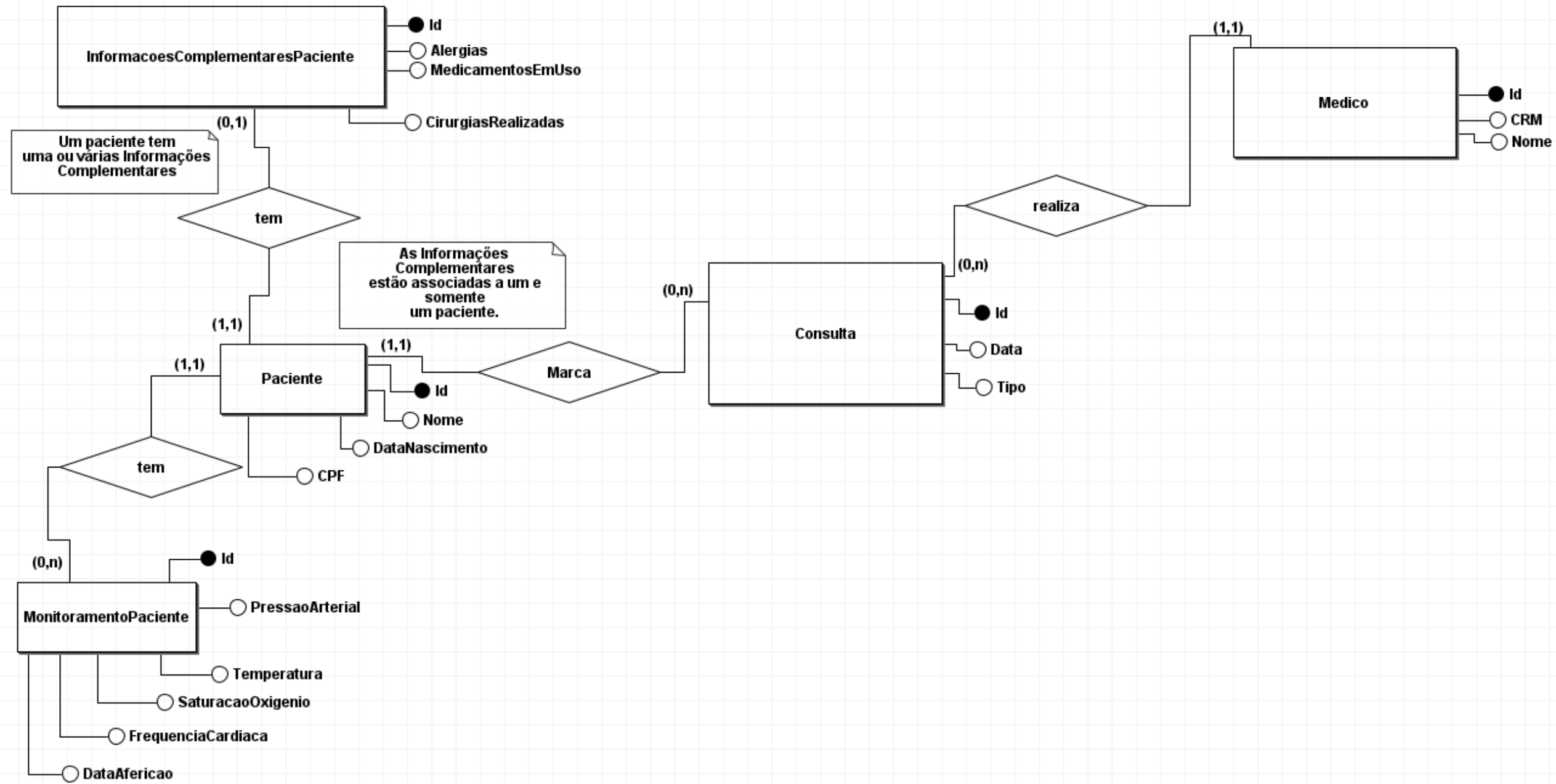
A entidade fraca é que precisa de outra entidade.

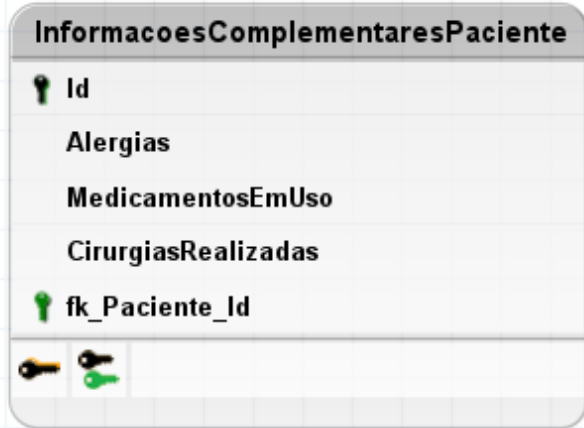












(0,1)

(1,1)

(1,1)



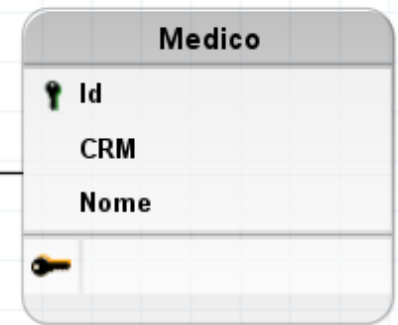
(1,1)

(0,n)

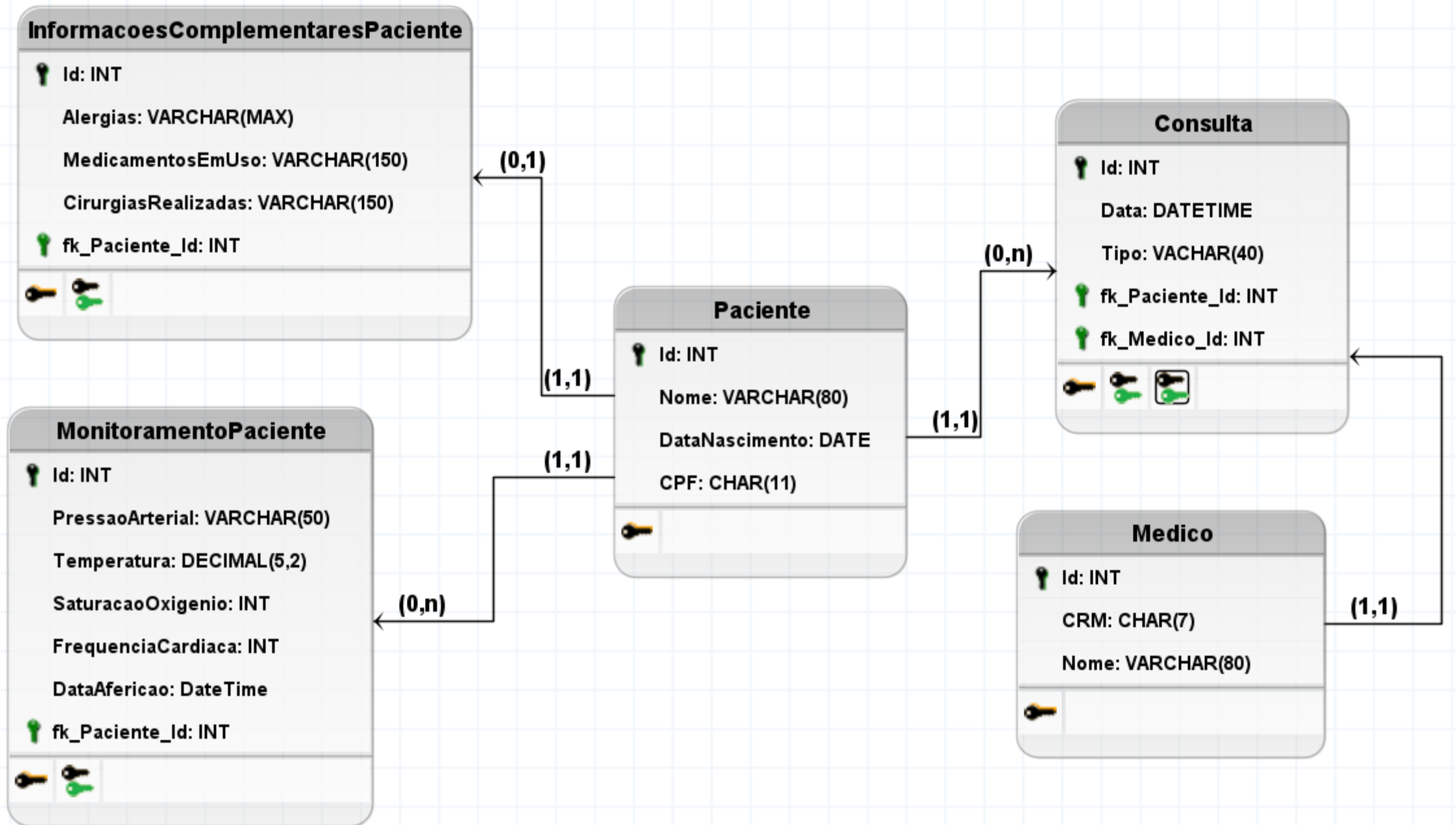


(0,n)

(1,1)

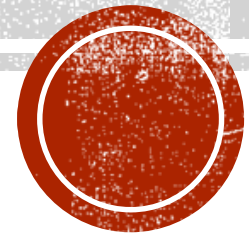






# NAMESPACE

É um conjunto de classes (organização, porém, lógica)



- **NAMESPACES**

- Agrupar todas as classes de entidade.

- SisMed

- Models

- Entities

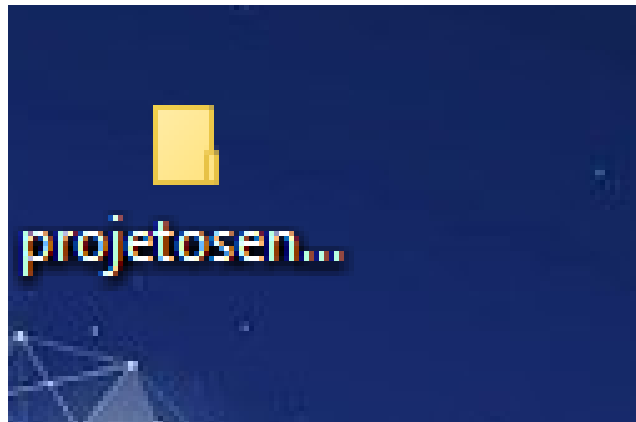
- `namespace SisMed.Models.Entities`



namespace SisMed.Models.Entities



Criar uma pasta de trabalho com o nome projetosenairomulo:  
Objetivo da pasta é organizar os seus projetos pessoais da escola.



# VSCODE

## ■ Microsoft Ignite

- VSCODE
- GITHUB
- CHATGPT
- COPILOT X dentro do GITHUB
- LOOP
- SQL SERVER
- WINDOWS 11





```
PS C:\Users\PROFESSOR\Desktop\projetosenairomulo> dotnet new mvc -o SisMed
O modelo "Aplicativo Web do ASP.NET Core (Model-View-Controller)" foi criado com êxito.
Este modelo contém tecnologias de outras pessoas além da Microsoft, consulte https://aka.ms/aspnetcore/7.0-third-party-notices para obter detalhes.
```

```
Processando ações pós-criação...
```

```
Restaurando C:\Users\PROFESSOR\Desktop\projetosenairomulo\SisMed\SisMed.csproj:
```

```
  Determinando os projetos a serem restaurados...
```

```
  C:\Users\PROFESSOR\Desktop\projetosenairomulo\SisMed\SisMed.csproj restaurado (em 75 ms).
```

```
A restauração foi bem-sucedida.
```

```
PS C:\Users\PROFESSOR\Desktop\projetosenairomulo> █
```



EXPLORER




✓ PROJETOSENAIROMULO


>  SisMed







Dev C#








**C# Dev Kit**  
Official C# extension from Mic...  
Microsoft

**IntelliCode for C# Dev Kit**  
AI-assisted development for C...  
Microsoft

**C# Utilities**  
Workflow enhancements for C...  
RevrenLove



**C# Dev Kit** v1.0.14


Microsoft  microsoft.com |  1,115,823 |      (1)

Official C# extension from Microsoft

Disable

Uninstall

Switch to Pre-Release Version



This extension is enabled globally.

DETAILS

FEATURE CONTRIBUTIONS

CHANGELOG

DEPENDENCIES








EXTENSION PACK

RUNTIME ST






C# v2.10.28

Microsoft  microsoft.com |  24,483,923 |     

Base language support for C#

Set Color Theme

Disable 

Uninstall 



This extension is enabled globally.







## IntelliCode for C# Dev Kit

v0.1.26


Prev

Microsoft  microsoft.com

 1,014,462

     (8)

AI-assisted development for C# Dev Kit

Disable 

Uninstall 




This extension is enabled globally.





## C# Extensions v1.7.3

JosKreativ |  744,276 | ★★★★★ (13)

C# IDE Extensions for VSCode

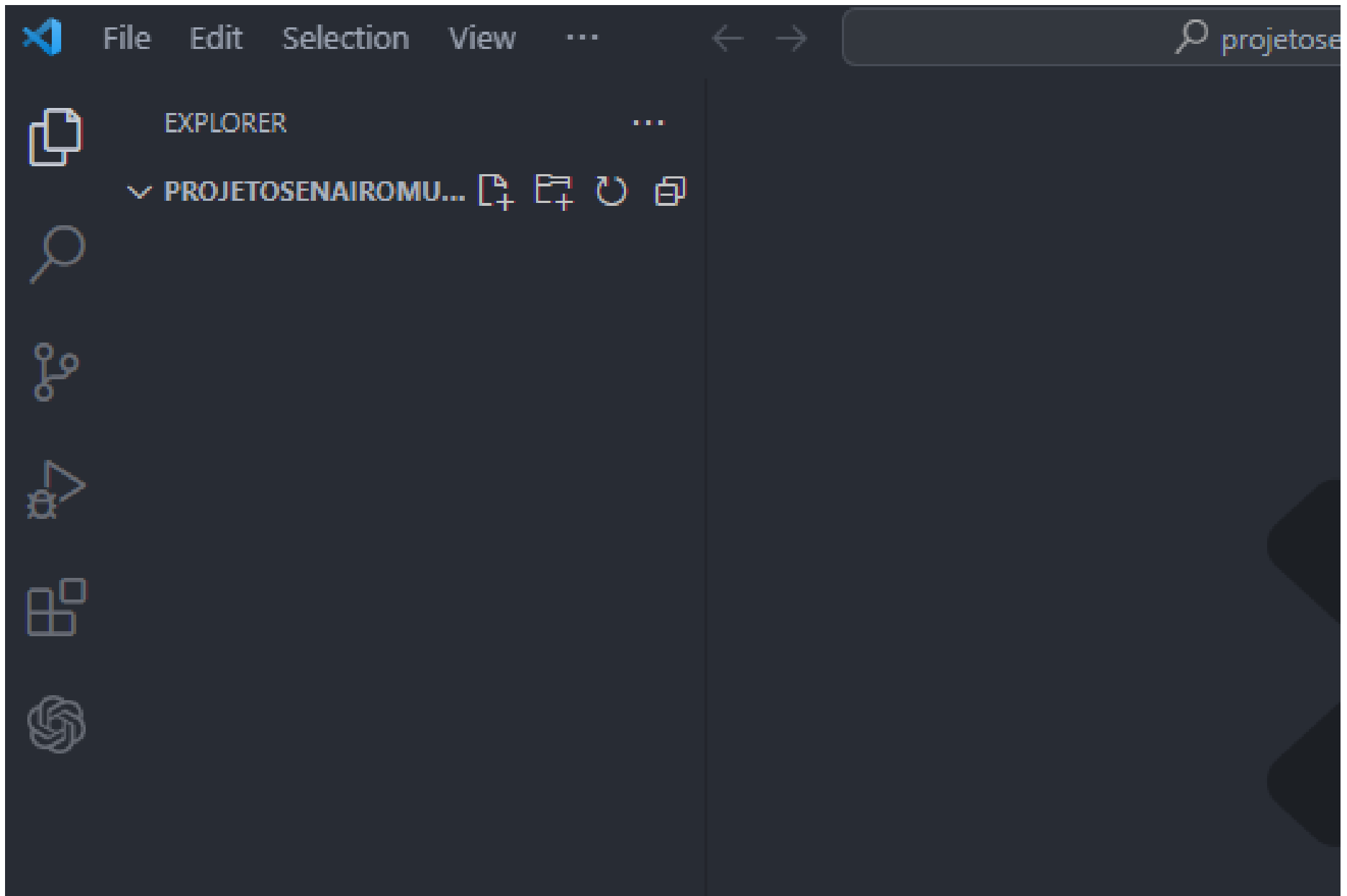
Disable ▼

Uninstall ▼



This extension is enabled globally.





```
PS C:\Users\PROFESSOR\Desktop\projetos> dotnet
```

```
Usage: dotnet [options]
```

```
Usage: dotnet [path-to-application]
```

```
Options:
```

-h --help	Display help.
--info	Display .NET information.
--list-sdks	Display the installed SDKs.
--list-runtimes	Display the installed runtimes.

```
path-to-application:
```



```
PS C:\Users\PROFESSOR\Desktop\projetos> dotnet --version  
7.0.202  
PS C:\Users\PROFESSOR\Desktop\projetos> |
```



```
PS C:\Users\PROFESSOR\Desktop\projetos> dotnet new mvc -o SisMed
O modelo "Aplicativo Web do ASP.NET Core (Model-View-Controller)" foi criado com êxito.
Este modelo contém tecnologias de outras pessoas além da Microsoft, consulte https://aka.ms/aspnetcore/7.0-third-party-notices para obter detalhes.


Processando ações pós-criação...
Restaurando C:\Users\PROFESSOR\Desktop\projetos\SisMed\SisMed.csproj:
```







✓  SisMed

>  Controllers

>  Models

>  obj

>  Properties

>  Views

>  wwwroot

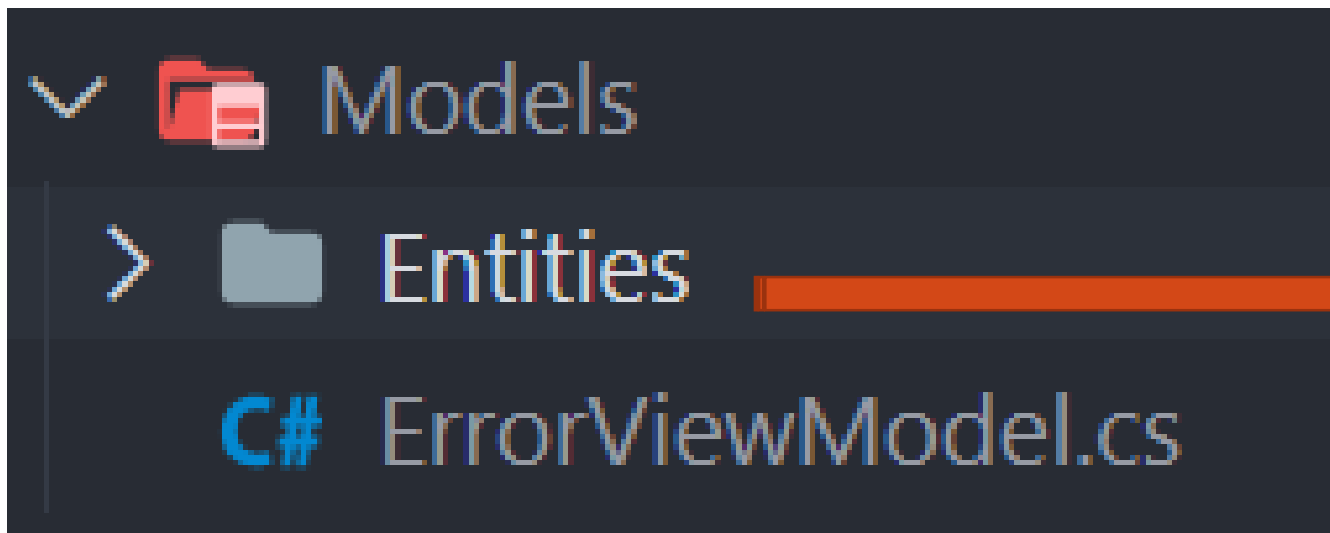
{..} appsettings.Development.json

{..} appsettings.json

C# Program.cs

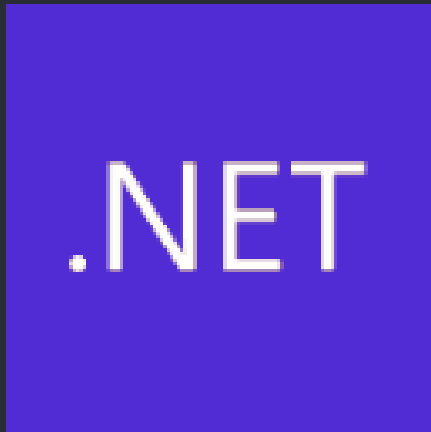
 SisMed.csproj





Medico  
Paciente  
Consulta  
InformacoesComplementaresPaciente  
MonitoramentoPaciente





## .NET Install Tool v2.0.0

Microsoft

This extension installs and manages different versions of the .NE...

Disable



Uninstall



This extension is enabled globally.





C# v2.10.28

Microsoft

Base language support for C#

Set Color Theme

Disable | v

Uninstall



This extension is enabled globally.





## C# Dev Kit v1.0.14

Microsoft

Official C# extension from Microsoft

Disable

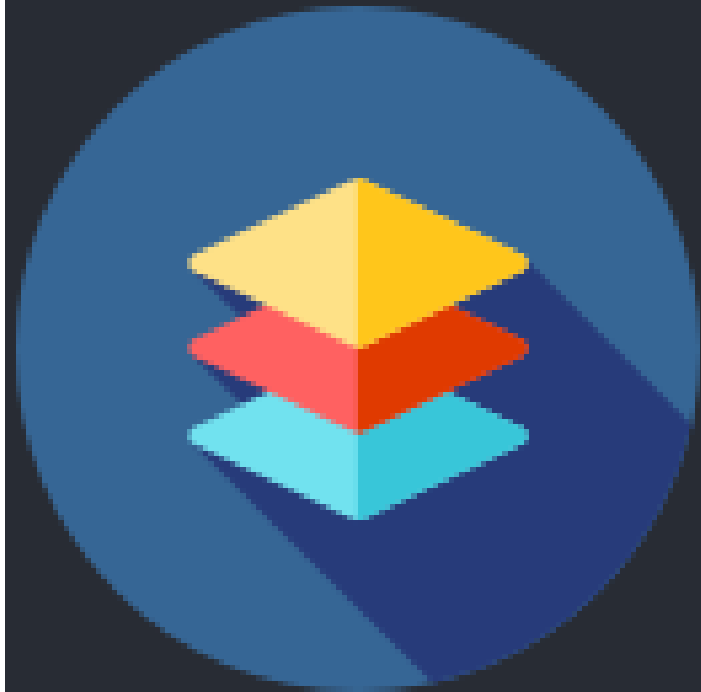


Uninstall



This extension is enabled globally.





# C# Extensions v1.7.3

JosKreativ

C# IDE Extensions for VSCode

Disable | ▼

Uninstall



This extension is enabled globally.



```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace SisMed.Models.Entities
7  {
8      0 references
9      public class Medico
10     {
11     }
12 }
```

