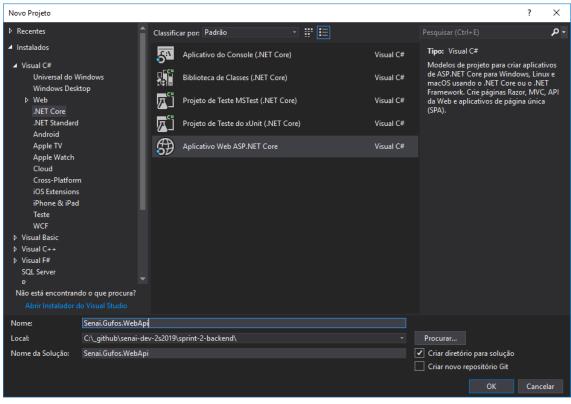
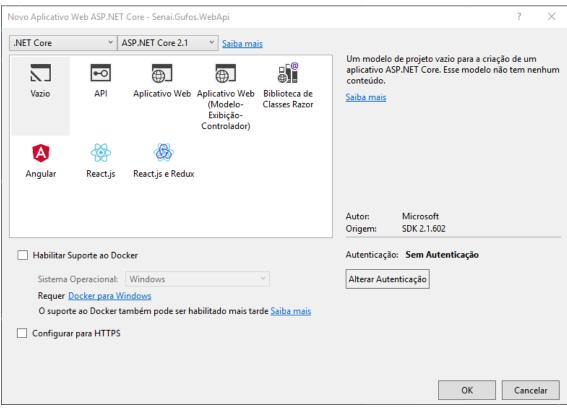
### Apresentação EF Core

#### Criar novo projeto – Senai.Gufos.WebApi



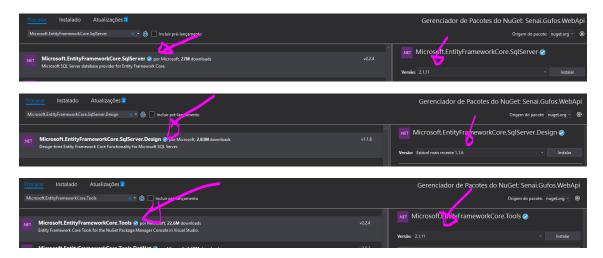


Gerenciar Pacotes do Nuget

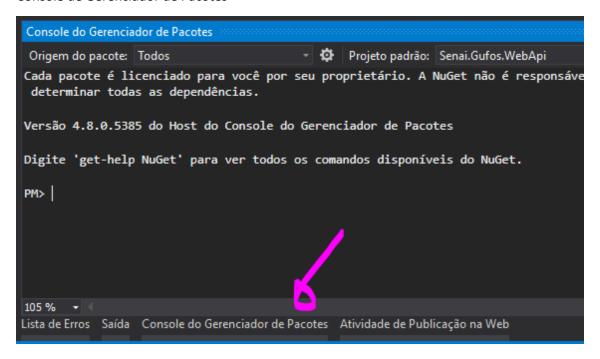
Microsoft.EntityFrameworkCore.SqlServer – versão 2.1.11

Microsoft.EntityFrameworkCore.SqlServer.Design – versão 1.1.6

Microsoft.EntityFrameworkCore.Tools – versão 2.1.11



Console de Gerenciador de Pacotes



Scaffold-DbContext "Data Source=localhost; Initial Catalog=Gufos; Integrated Security=True" Microsoft.EntityFrameworkCore.SqlServer -OutputDir Domains -ContextDir Contexts -Context GufosContext



# **Configurar Startup**

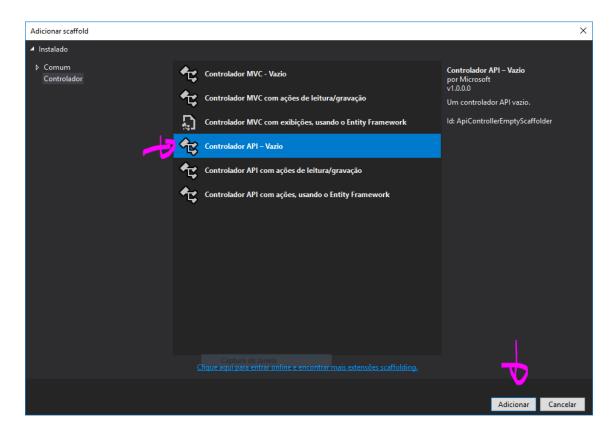
```
public class Startup
{
    // This method gets called by the runtime. Use this method to add services to the container.
    // For more information on how to configure your application, visit https://go.microsoft.com/fwlink/?LinkID=398940
public void ConfigureServices(IServiceCollection services)
{
    services.AddMvc().SetCompatibilityVersion(Microsoft.AspNetCore.Mvc.CompatibilityVersion.Version_2_1);
}

// This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    app.UseMvc();

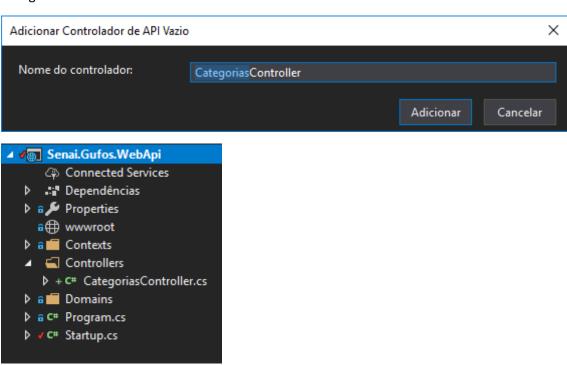
    //app.Run(async (context) =>
    //{
        // await context.Response.WriteAsync("Hello World!");
    //});
}
```

Criar pasta chamada Controllers.

Adicionar novo controlador – Controlador API – Vazio



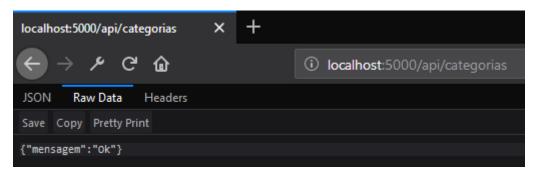
# CategoriasController.cs



Alterar CategoriasController.cs

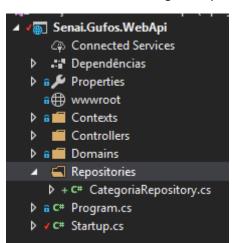
```
[Route("api/[controller]")]
[Produces("application/json")]
[ApiController]
public class CategoriasController : ControllerBase
{
    [HttpGet]
    public IActionResult ListarTodos()
    {
        return Ok(new { mensagem = "Ok" });
    }
}
```

Localhost:5000/api/categorias



Criar pasta Repositories

Adicionar nova classe CategoriaRepository.cs



Criar método Listar()

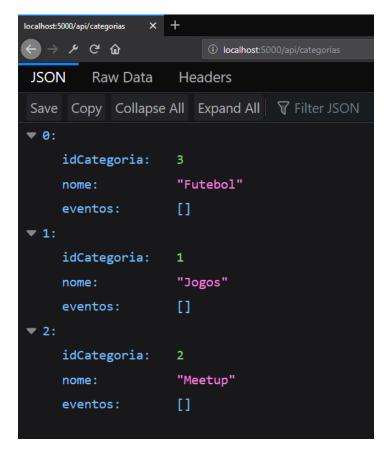
```
public class CategoriaRepository
{
    public List<Categorias> Listar()
    {
        using (GufosContext ctx = new GufosContext())
        {
            return ctx.Categorias.ToList();
        }
    }
}
```

Alterar no CategoriasController.cs

```
CategoriaRepository CategoriaRepository = new CategoriaRepository();

[HttpGet]
public IActionResult ListarTodos()
{
    return Ok(CategoriaRepository.Listar());
}
```

Visualizar resultado no Browser.



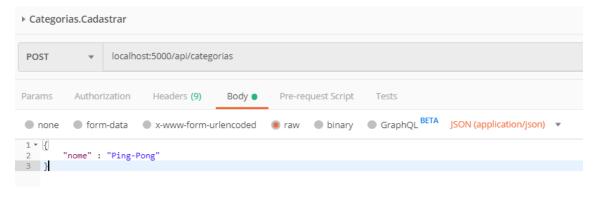
Cadastrar

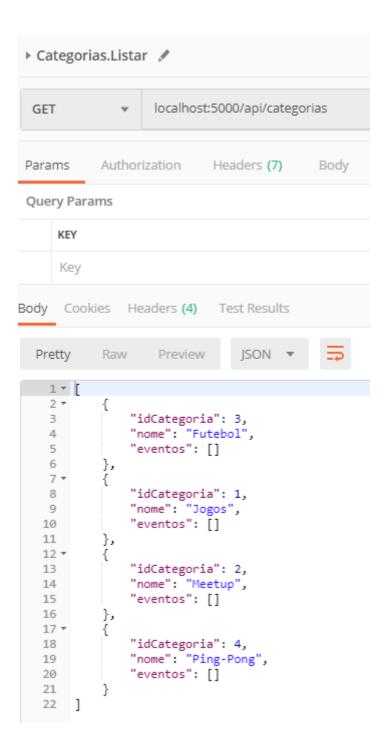
CategoriaRepository.cs

```
public void Cadastrar(Categorias categoria)
{
    using (GufosContext ctx = new GufosContext())
    {
        ctx.Categorias.Add(categoria);
        ctx.SaveChanges();
    }
}
```

# CategoriasController.cs

```
[HttpPost]
public IActionResult Cadastrar(Categorias categoria)
{
    try
    {
        CategoriaRepository.Cadastrar(categoria);
        return Ok();
    }
    catch (Exception)
    {
        return BadRequest();
    }
}
```

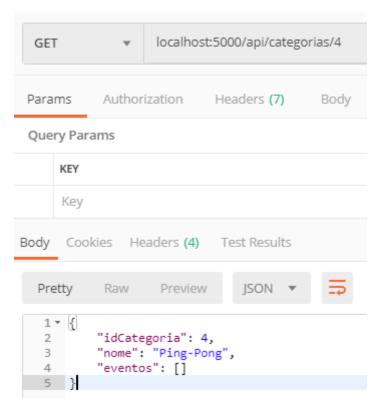




BuscarPorId

```
[HttpGet("{id}")]
public IActionResult BuscarPorId(int id)
{
    Categorias Categoria = CategoriaRepository.BuscarPorId(id);
    if (Categoria == null)
    {
        return NotFound();
    }
    return Ok(Categoria);
}
```

```
public Categorias BuscarPorId(int id)
{
    using (GufosContext ctx = new GufosContext())
    {
        return ctx.Categorias.FirstOrDefault(x => x.IdCategoria == id);
    }
}
```



Deletar

CategoriaRepository.cs

```
public void Deletar(int id)
{
    using (GufosContext ctx = new GufosContext())
    {
        Categorias CategoriaBuscada = ctx.Categorias.Find(id);
        ctx.Categorias.Remove(CategoriaBuscada);
        ctx.SaveChanges();
    }
}
```

```
[HttpDelete("{id}")]
public IActionResult Deletar(int id)
{
    CategoriaRepository.Deletar(id);
    return Ok();
}
```

▶ Categorias.Deletar

DELETE

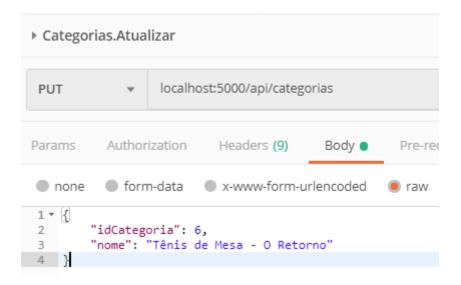
localhost:5000/api/categorias/5

# Atualizar

```
public void Atualizar(Categorias categoria)
{
    using (GufosContext ctx = new GufosContext())
    {
        Categorias CategoriaAtualizada = ctx.Categorias.FirstOrDefault(x => x.IdCategoria == categoria.IdCategoria);
        CategoriaAtualizada.Nome = categoria.Nome;
        ctx.Categorias.Update(CategoriaAtualizada);
        ctx.SaveChanges();
    }
}
```

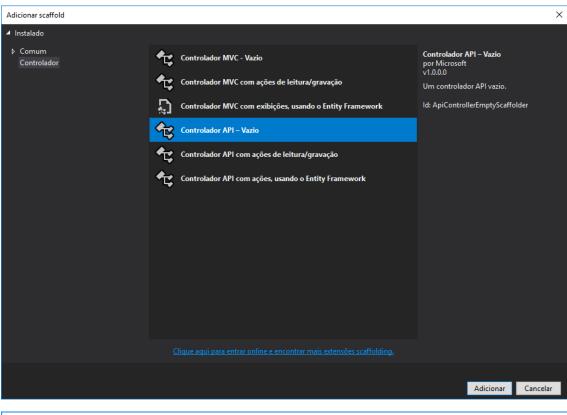
```
[HttpPut]
public IActionResult Atualizar(Categorias categoria)
{
    try
    {
        Categorias CategoriaBuscada = CategoriaRepository.BuscarPorId(categoria.IdCategoria);
        if (CategoriaBuscada == null)
            return NotFound();

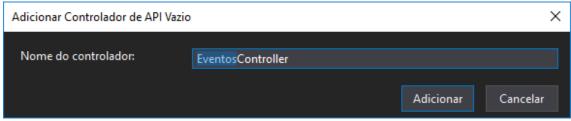
        CategoriaRepository.Atualizar(categoria);
        return Ok();
    }
    catch (Exception)
    {
        return BadRequest();
    }
}
```



# **EVENTOS**

# EventosController.cs





```
[HttpGet]
public IActionResult Listar()
{
    return Ok();
}
```

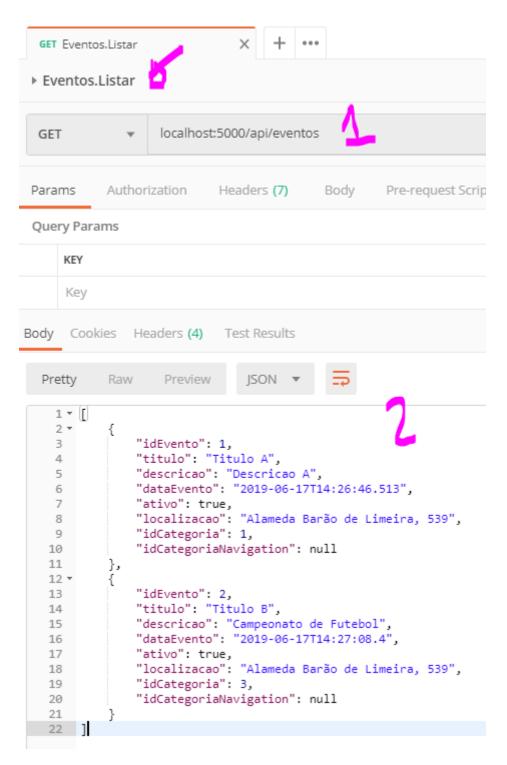
EventoRepository.cs

```
public class EventoRepository
{
    public List<Eventos> Listar()
    {
        using (GufosContext ctx = new GufosContext())
        {
            return ctx.Eventos.ToList();
        }
    }
}
```

EventosController.cs

```
[Route("api/[controller]")]
[Produces("application/json")]
[ApiController]
public class EventosController : ControllerBase
{
    EventoRepository EventoRepository = new EventoRepository();
    [HttpGet]
    public IActionResult Listar()
    {
        return Ok(EventoRepository.Listar());
    }
}
```

Criar pasta no postman.



Incluir a categoria nos eventos.

EventoRepository.cs

```
public List<Eventos> Listar()
{
    using (GufosContext ctx = new GufosContext())
    {
        return ctx.Eventos.Include(x => x.IdCategoriaNavigation).ToList();
    }
}
```

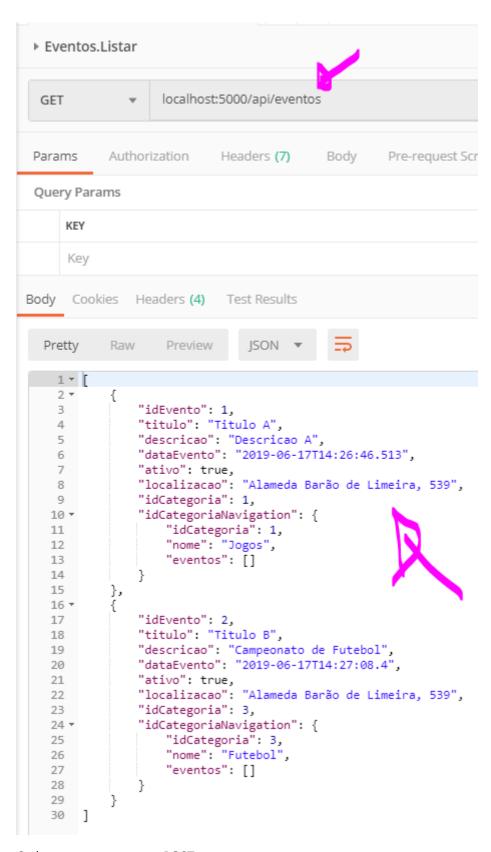
# Could not beautify



#### Startup.cs

```
// This method gets called by the runtime. Use this method to add services to the container.
// For more information on how to configure your application, visit https://go.microsoft.com/fwlink/?LinkID=398940
public void ConfigureServices(IServiceCollection services)
{
    services.AddMvc()
        .AddJsonOptions(
        options => {
        options.SerializerSettings.ReferenceLoopHandling = Newtonsoft.Json.ReferenceLoopHandling.Ignore;
        options.SerializerSettings.NullValueHandling = Newtonsoft.Json.NullValueHandling.Ignore;
    })
    .SetCompatibilityVersion(Microsoft.AspNetCore.Mvc.CompatibilityVersion.Version_2_1);
}
```

Localhost:5000/api/eventos



Cadastrar novo evento - POST

EventoRepository.cs

```
public void Cadastrar(Eventos evento)
{
    using (GufosContext ctx = new GufosContext())
    {
        ctx.Eventos.Add(evento);
        ctx.SaveChanges();
    }
}
```

```
[HttpPost]
public IActionResult Cadastrar(Eventos evento)
{
    try
    {
        EventoRepository.Cadastrar(evento);
        return Ok();
    }
    catch (Exception ex)
    {
        return BadRequest(new { mensagem = ex.Message });
    }
}
```

