



asp.net core

-  _____
-  _____
- efcore



```
<SatelliteResourceLanguages>zh-Hans</SatelliteResourceLanguages>
```



```
//
```

```
ArgumentNullException.ThrowIfNull(services);
```



```
context.Response.ContentType = "application/octet-stream";  
context.Response.Headers.Append("Content-Disposition",  
new string[] { $"attachment;filename={generate.Domain.TrimStart('*')}.zip" });
```

3. Strategy

**
**

```csharp

```
public interface IPaymentStrategy { void Pay(); }
public class AlipayStrategy : IPaymentStrategy { public void Pay() { /*...*/ } }
public class WeChatPayStrategy : IPaymentStrategy { public void Pay() { /*...*/ } }
```

```
public class PaymentContext
```

```
{
 private readonly IPaymentStrategy _strategy;
 public PaymentContext(IPaymentStrategy strategy) { _strategy = strategy; }
 public void ExecutePay() => _strategy.Pay();
}
```

```
}
```

```
//
```

```
services.AddTransient<IPaymentStrategy, AlipayStrategy>();
```

```
services.AddTransient<PaymentContext>();
```

```
```
```

4. Decorator

**
** AOP

```csharp

```
public class LoggingRepository<T> : IRepository<T>
```

```
{
 private readonly IRepository<T> _inner;
 public LoggingRepository(IRepository<T> inner) { _inner = inner; }
 public void Add(T entity) { Console.WriteLine(""); _inner.Add(entity); }
}
```

```
}
```

```
//
```

```
services.Decorate(typeof(IRepository<>), typeof(LoggingRepository<>)); // Scrutor
```

```
```
```

5. Observer

**
**

```csharp

```
public interface IEventHandler<T> { void Handle(T evt); }
```



---

## 8. Proxy

\*\*`RepositoryProxy` implements `IRepository`

```
```csharp
public class RepositoryProxy<T> : IRepository<T>
{
    private readonly IRepository<T> _inner;
    public RepositoryProxy(IRepository<T> inner) { _inner = inner; }
    public void Add(T entity) { /* ... */ _inner.Add(entity); }
}
// ...
services.Decorate(typeof(IRepository<>), typeof(RepositoryProxy<>));
```
```

---

## 9. Command

\*\*`CommandInvoker` implements `ICommandInvoker`

```
```csharp
public interface ICommand { void Execute(); }
public class CreateOrderCommand : ICommand { /* ... */ }
public class CommandInvoker
{
    private readonly IEnumerable<ICommand> _commands;
    public CommandInvoker(IEnumerable<ICommand> commands) { _commands = commands; }
    public void ExecuteAll() { foreach (var cmd in _commands) cmd.Execute(); }
}
// ...
services.AddTransient<ICommand, CreateOrderCommand>();
```
```

---

## 10. Template Method

\*\*`BaseModule` defines `RegisterModule`

```
```csharp
public abstract class BaseModule
{
    public void RegisterModule()
    {
```

```

    PreRegister();
    DoRegister();
    PostRegister();
}
protected virtual void PreRegister() { }
protected abstract void DoRegister();
protected virtual void PostRegister() { }
}
...

```

11. Builder

**[Builder](#) **[Builder](#) SQL Http

```

```csharp
public class DbContextBuilder
{
 private string _connStr;
 public DbContextBuilder UseSqlServer(string connStr) { _connStr = connStr; return this; }
 public MyDbContext Build() => new MyDbContext(_connStr);
}
...

```

---

## 12. Flyweight

\*\*[Flyweight](#)    \*\*[Flyweight](#)

```

```csharp
public class DbContextPool
{
    private readonly Dictionary<string, MyDbContext> _pool = new();
    public MyDbContext Get(string connStr)
    {
        if (!_pool.ContainsKey(connStr))
            _pool[connStr] = new MyDbContext(connStr);
        return _pool[connStr];
    }
}
...

```

13. Composite

20. 工厂方法 Prototype

工厂方法 **工厂方法

```
```csharp
public interface IPrototype<T> { T Clone(); }
public class ConfigPrototype : IPrototype<ConfigPrototype>
{
 public string Value;
 public ConfigPrototype Clone() => (ConfigPrototype)this.MemberwiseClone();
}
```
```

21. 链式调用 Pipeline/Filter

链式调用 **链式调用

```
```csharp
public interface IPipelineStep { void Process(RequestContext ctx); }
public class AuthStep : IPipelineStep { public void Process(RequestContext ctx) { /*...*/ } }
```
```

22. 门面 Facade

门面 **门面

```
```csharp
public class PaymentFacade
{
 private readonly IPaymentStrategy _alipay;
 private readonly IPaymentStrategy _wechat;
 public PaymentFacade(IPaymentStrategy alipay, IPaymentStrategy wechat)
 {
 _alipay = alipay; _wechat = wechat;
 }
 public void PayByAlipay() => _alipay.Pay();
 public void PayByWeChat() => _wechat.Pay();
}
```
```

23. 数据库访问 DAO

efcore

dotnet -ef [] [] [] []

```
[Console]::OutputEncoding = [System.Text.Encoding]::UTF8
```