.NET Framework

4.7   4.8

.NET Core

1.0   2.0   3.0   .NET 5   .NET 6   .NET 7

WPF, WinForms   EF Core 7

SOAP

CoreWCF 1.0

.NET Standard

Domain

.NET Framework		.NET Core				
IIS	Self Hosting	Windows	Linux	MacOS	Android	IOS
Windows		IIS	Apache | ngnx	Apache | ngnx		
Winforms	WPF	Winforms | WPF | UWP			Xamarin	
		WinUI				

MAUI	MAUI	MAUI

Avalonia UI

Blazor

.NET Core								
dotnet	Visual Studio		Visual Studio Code			Rider		
	Windows	MacOS	Windows	MacOS	Linux	Windows	MacOS	Linux

GET api/customers

GET api/customers/1

request (żądanie)

SQL

response (odpowiedź)

recordset

JSON / XML
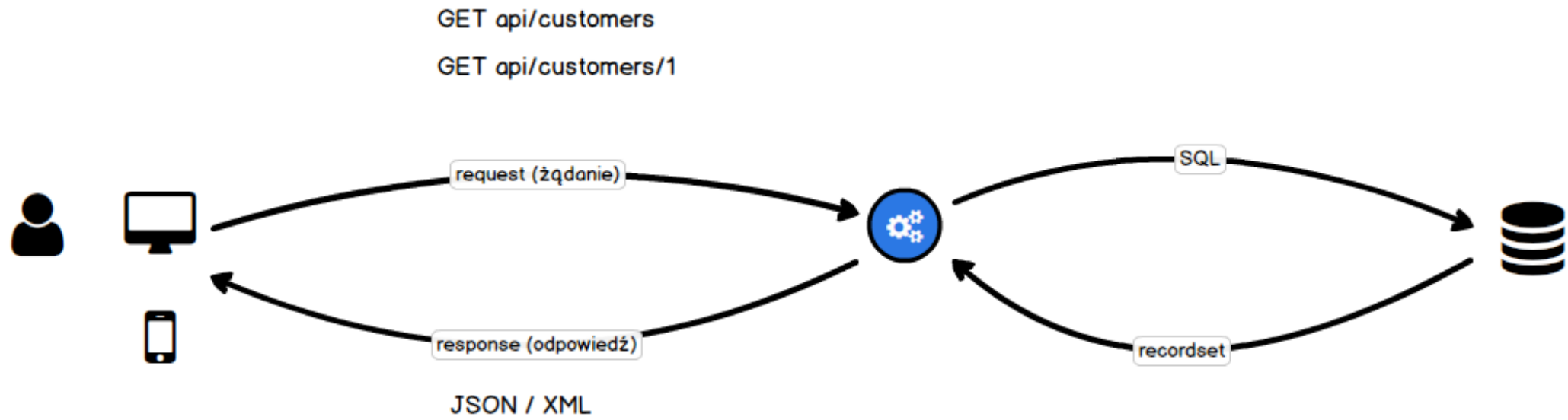
GET /api/customers/{customerId}?city={city}&street={street}
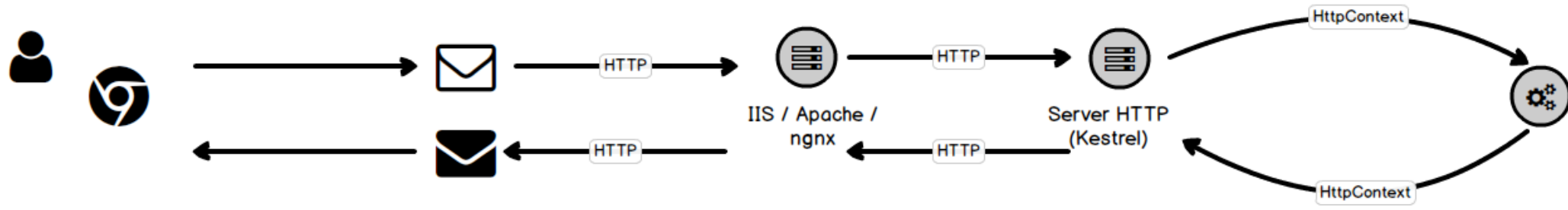
Verb

Route Params

Query Params

Url

GET /api/customers/1 HTTP/1.1
Host: localhost
Accept: application/json
\n\r

HttpContext
 - HttpRequest Request {get; set; }
 - HttpResponse Response {get; set; }
 - environment

http://localhost:5000/api/customers/1

HTTP

HTTP

HttpContext

IIS / Apache /
ngnx

Server HTTP
(Kestrel)

HTTP

HTTP

HttpContext

		request	response	

HEAD — Pobierz nagłówek

```
HEAD /api/customers/1 HTTP/1.1
Host: localhost
\n\r
```

```
200 OK
```

```
404 Not Found
```

GET — Pobierz

```
GET /api/customers/1 HTTP/1.1
Host: localhost
Accept: application/json
\n\r
```

```
200 OK
Content-Type: application/json
```

POST — Utwórz

```
POST /api/customers HTTP/1.1
Host: localhost
Content-Type: application/json
Accept: application/json

{
 "FirstName":"John",
"LastName":"Smith", "Salary":1000
}
\n\r
```

```
201 Created
Location: http://localhost:5000/
api/customers/1
Content-Type: application/json

{
 "Id":1, "FirstName":"John",
"LastName":"Smith", "Salary":
1000
}
\n\r
```

PUT — Zamień

```
PUT /api/customers/1 HTTP/1.1
Host: localhost
Content-Type: application/json
Accept: application/json

{
 "FirstName":"John",
"LastName":"Smith",
"Salary":1500
}
\n\r
```

```
204 NoContent
```

PATCH — Zmień

```
PATCH /api/customers/1 HTTP/1.1
Host: localhost
Content-Type: application/json
Accept: application/json

{
 "Salary":1500
}
\n\r
```

```
204 NoContent
```

JSON Merge Patch

Content-Type: application/merge-patch+json

Morcatko.AspNetCore.JsonMergePatch

JSON Patch

Content-Type: application/json-patch+json

Microsoft.AspNetCore.JsonPatch

DELETE — Usuń

```
DELETE /api/customers/1 HTTP/1.1
Host: localhost

\n\r
```

```
200 Ok
```

SOLID - Zasada Odwróconej zależności

Interface

ICustomerRepository

CSVCustomerRepository : ICustomerRepository

call

call

objects

InMemoryCustomerRepository : ICustomerRepository

SQL Server

DbCustomerRepository : ICustomerRepository
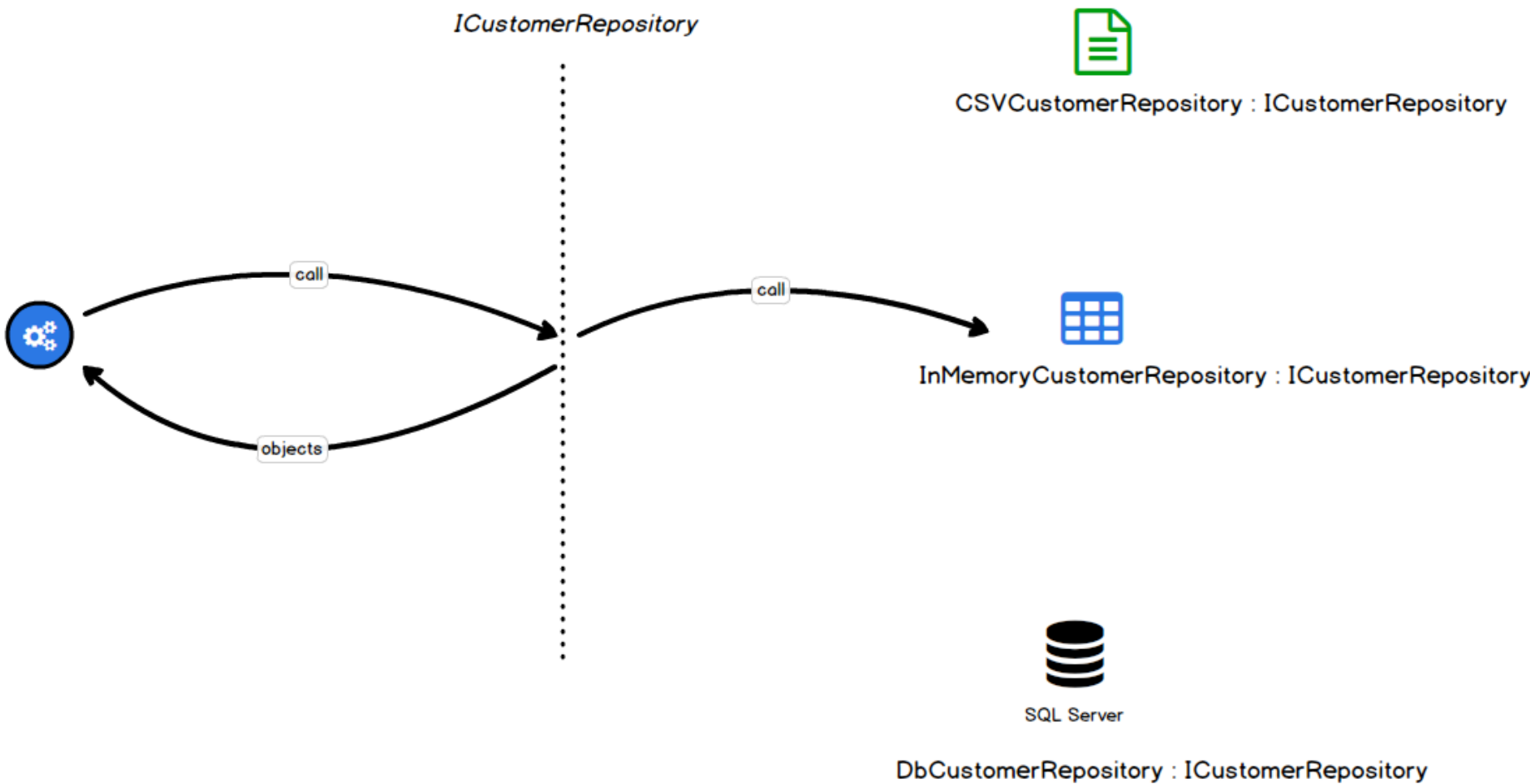
Type	Type
ICustomerRepository	InMemoryCustomerRepository
IProductRepository	DbProductRepository

http://

Name (job title)	Age ⬍	Nickname	Employee ▼
Giacomo Guilizzoni Founder & CEO	40	Peldi	⦿
Marco Botton Tuttofare	38		☑
Mariah Maclachlan Better Half	41	Patata	⊟
Valerie Liberty Head Chef	:)	Val	☑
Data Grid Docs			☐

http://

Some text

Some text

Some text

Some text

Some text

Some text

Some text

ComboBox

CopyToAsync()

.Position   ← [Reader] —   —[Writer] →   .Position
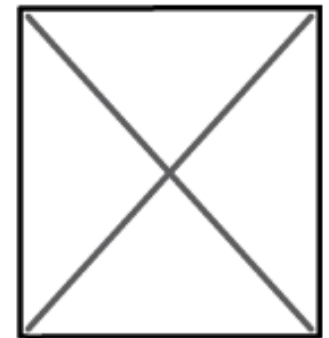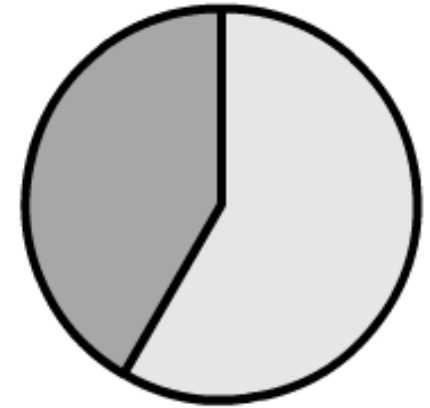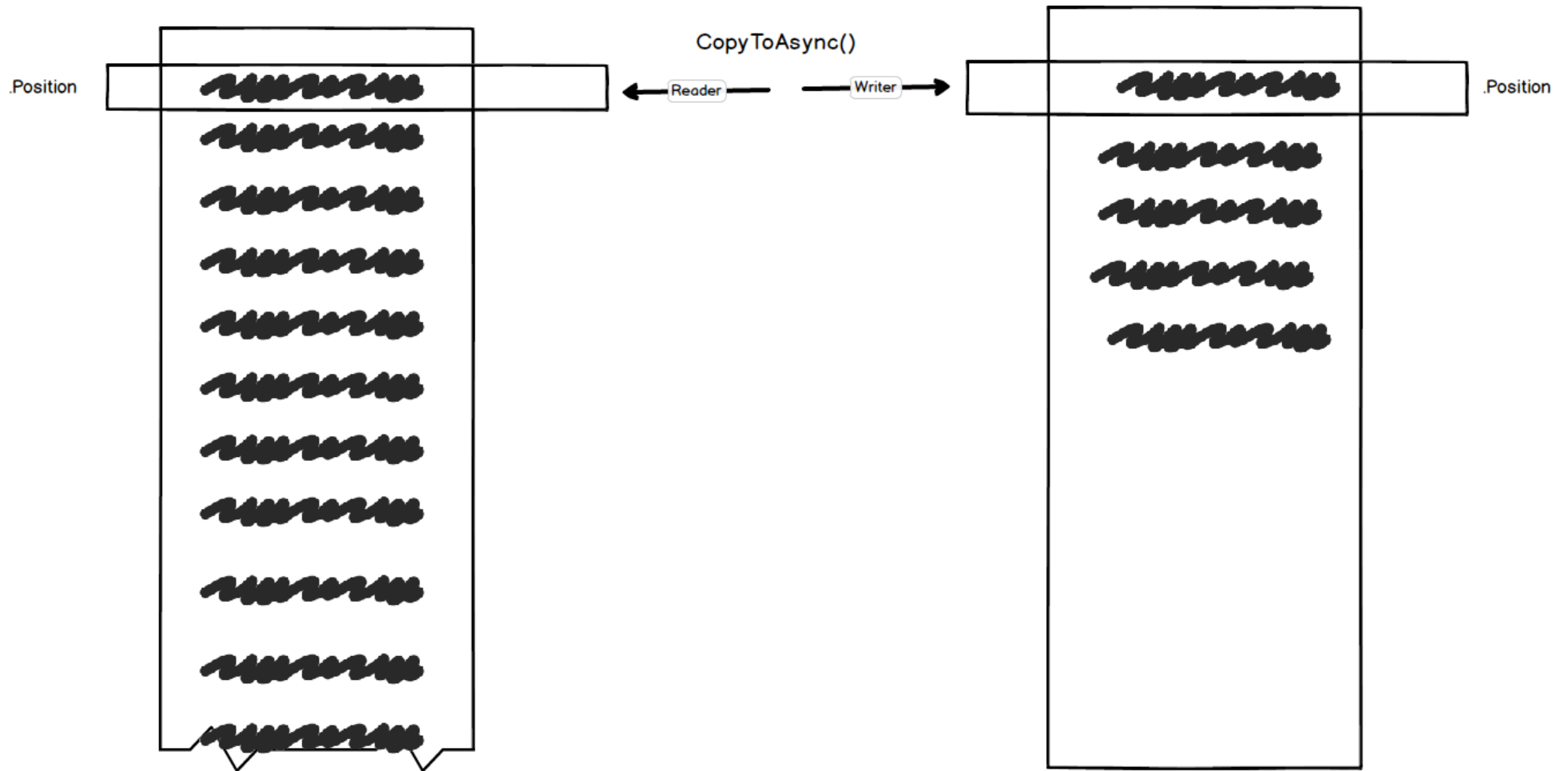
Customers.csv

Customers.xls

string[] lines = File.ReadAllText()