.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

SQL

request (żądanie)

response (odpowiedź)

recordset

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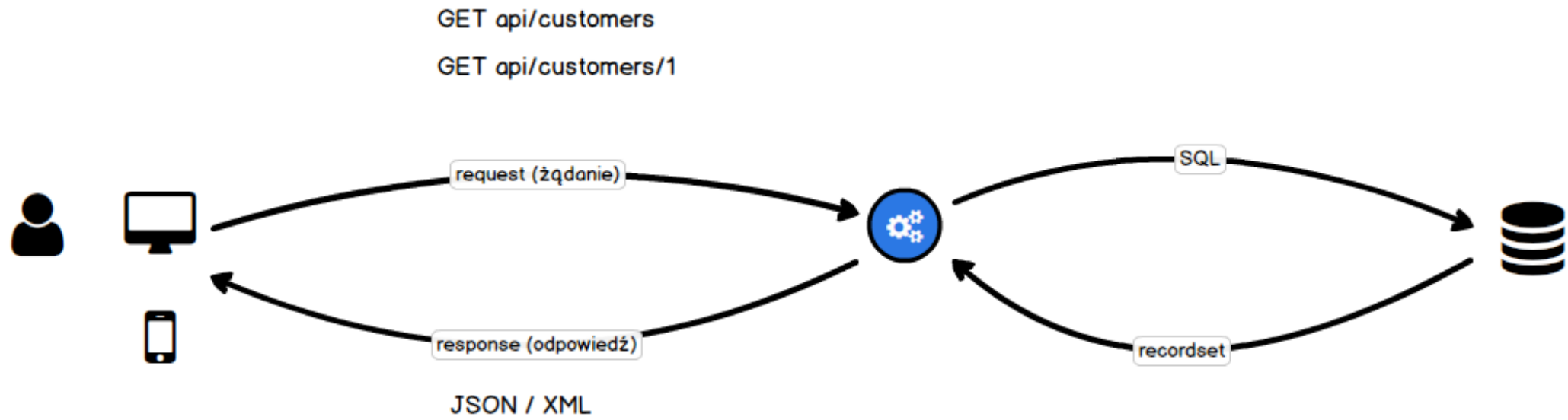
GET /api/customers/{customerId}?city={city}&street={street}
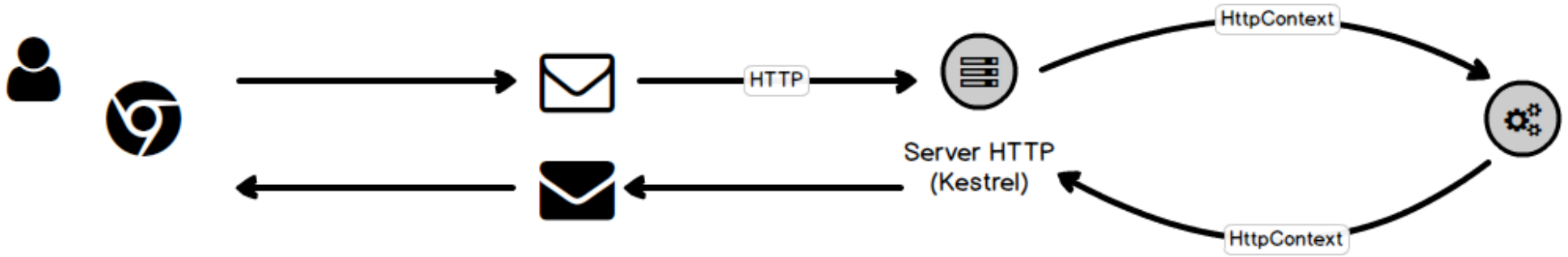
Verb

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

HttpContext

HttpContext

Server HTTP
(Kestrel)

		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

InMemoryCustomerRepository : ICustomerRepository

objects

SQL Server

DbCustomerRepository : ICustomerRepository
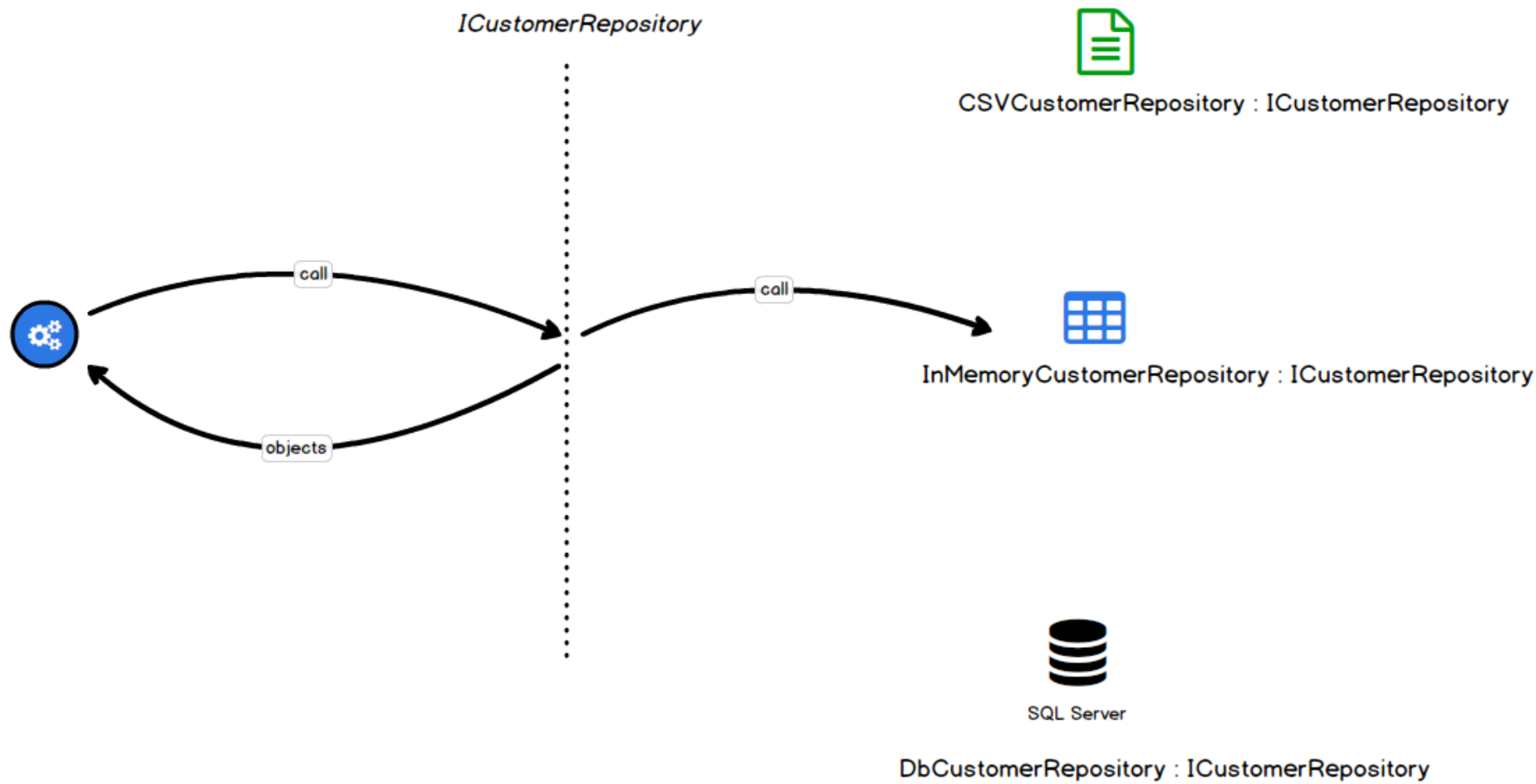
Type	Type
ICustomerRepository	InMemoryCustomerRepository
IProductRepository	DbProductRepository

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
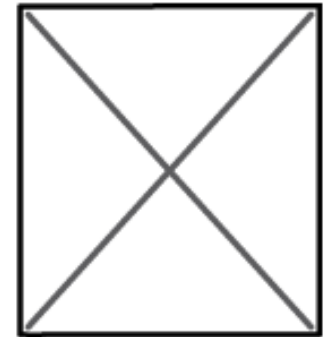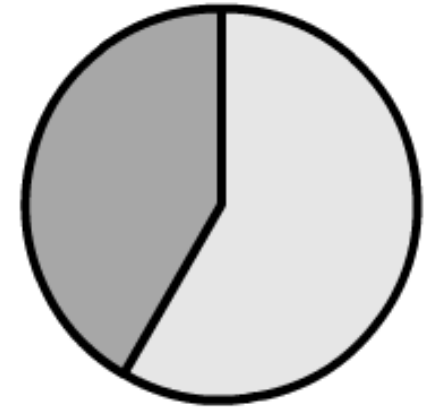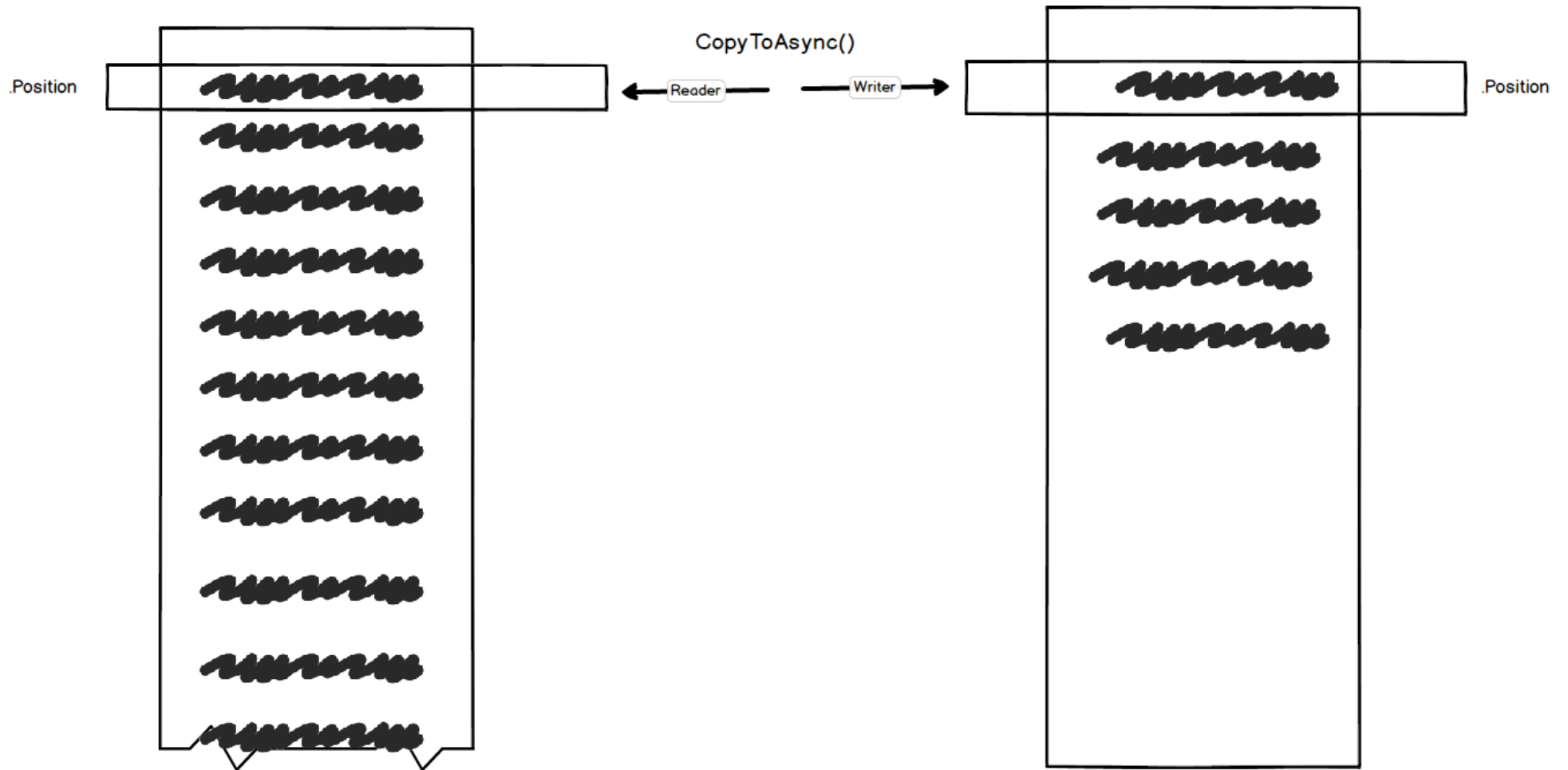
Customers.csv

Customers.xls

string[] lines = File.ReadAllText()