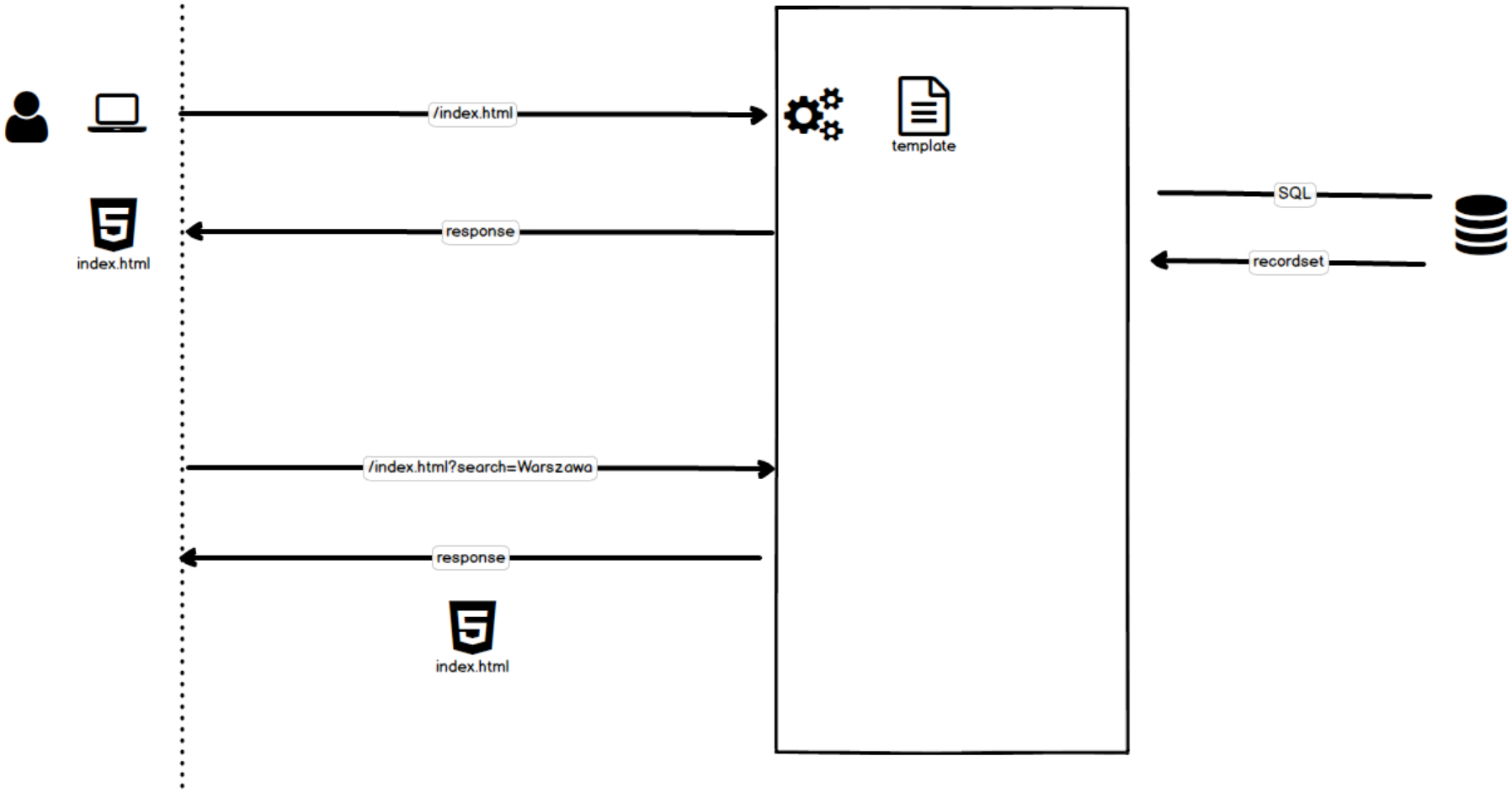
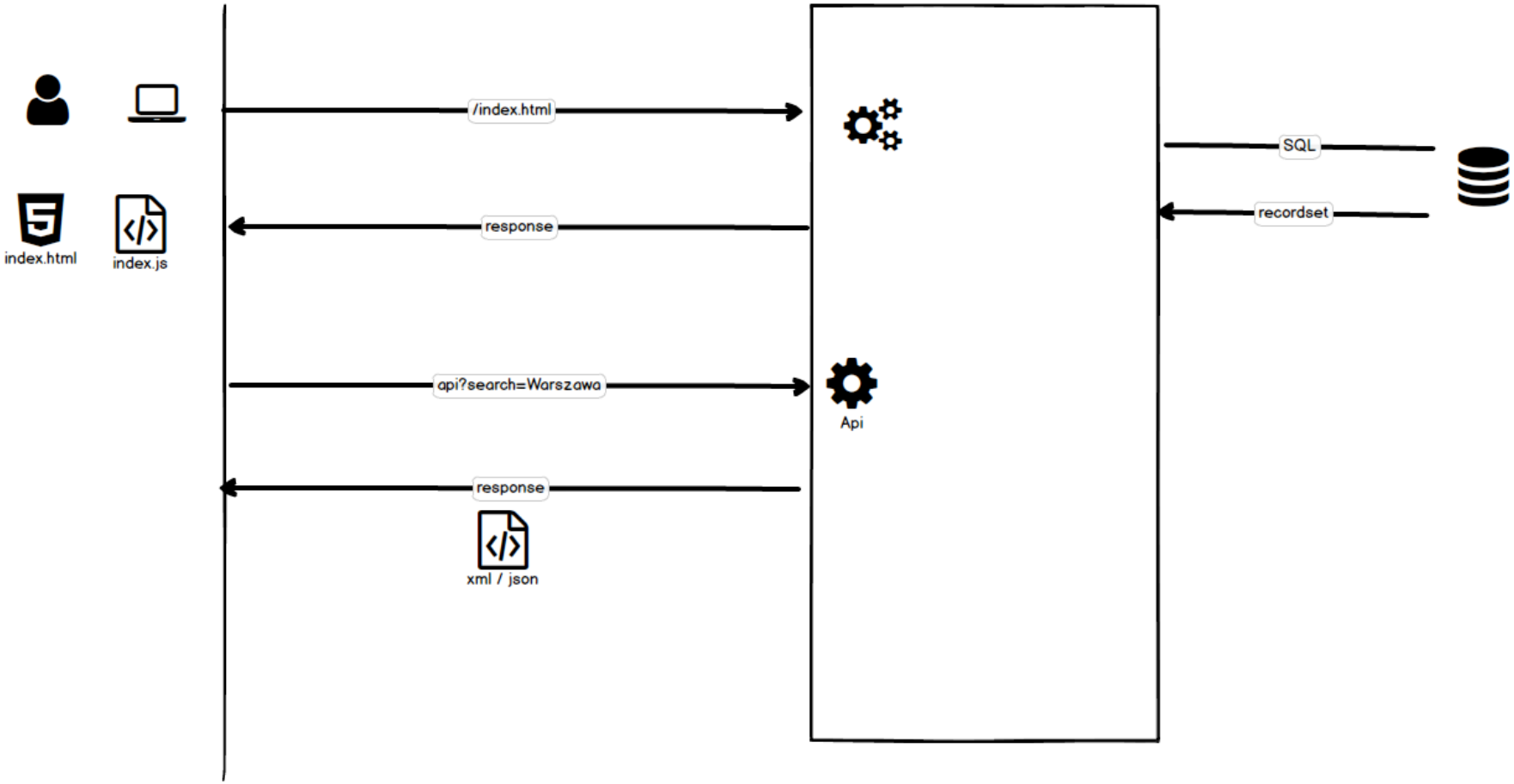
ASP.NET Core Blazor

Rendes Modes

Server Side Rendering (SSR)

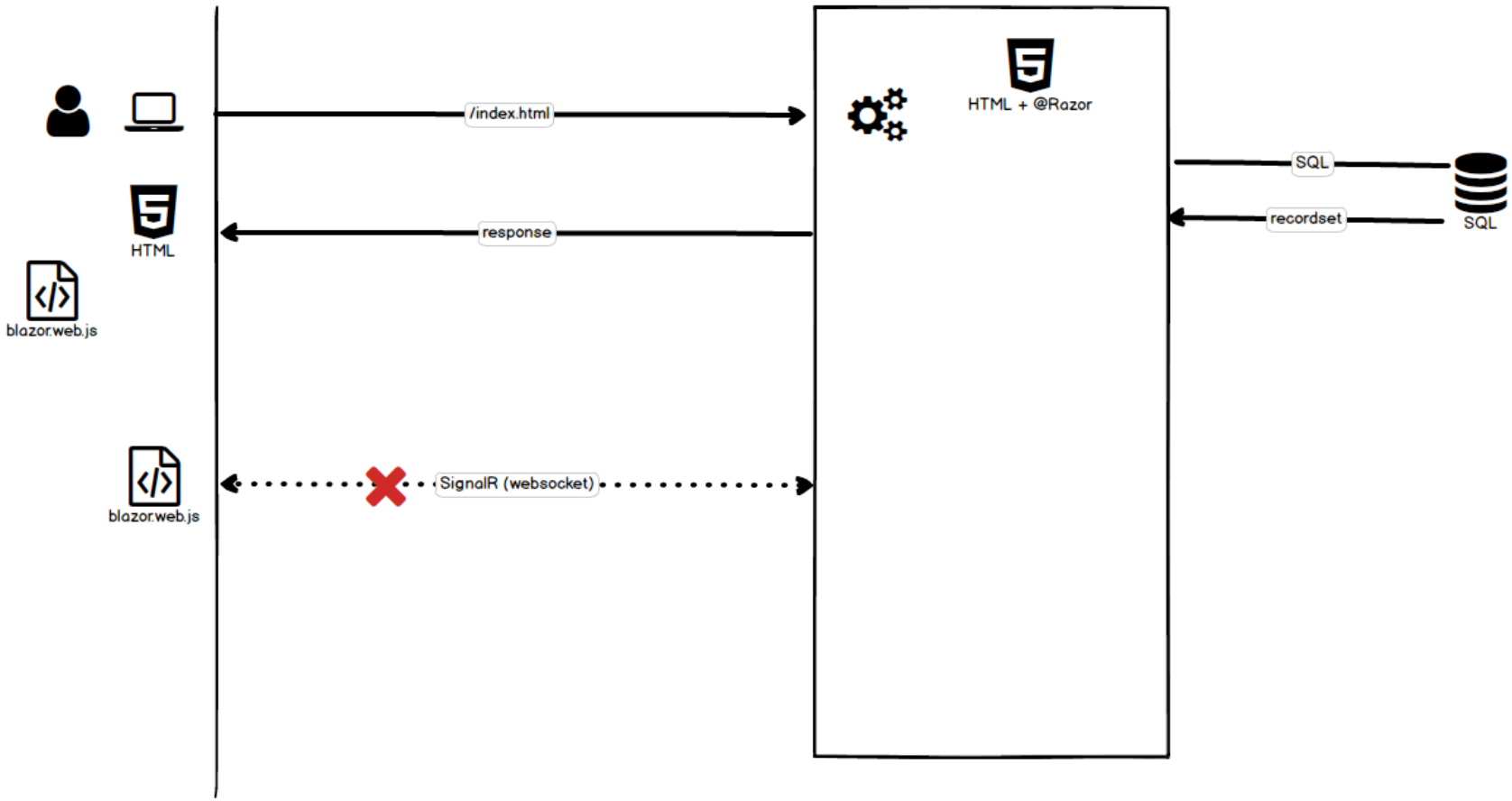


Client Side Rendering (CSR)

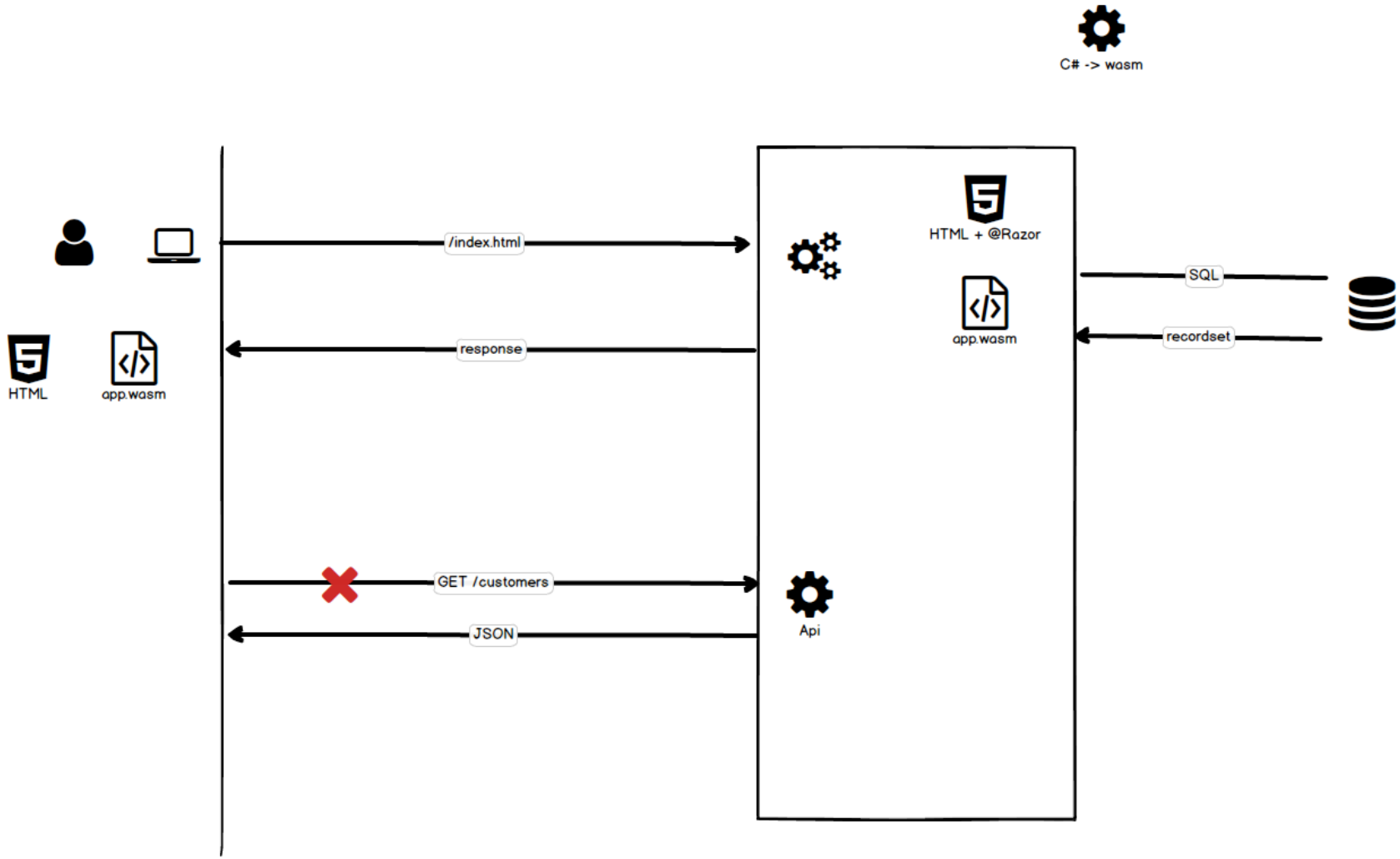


Blazor Hosting Models

Blazor Server (Blazor Server-Side)

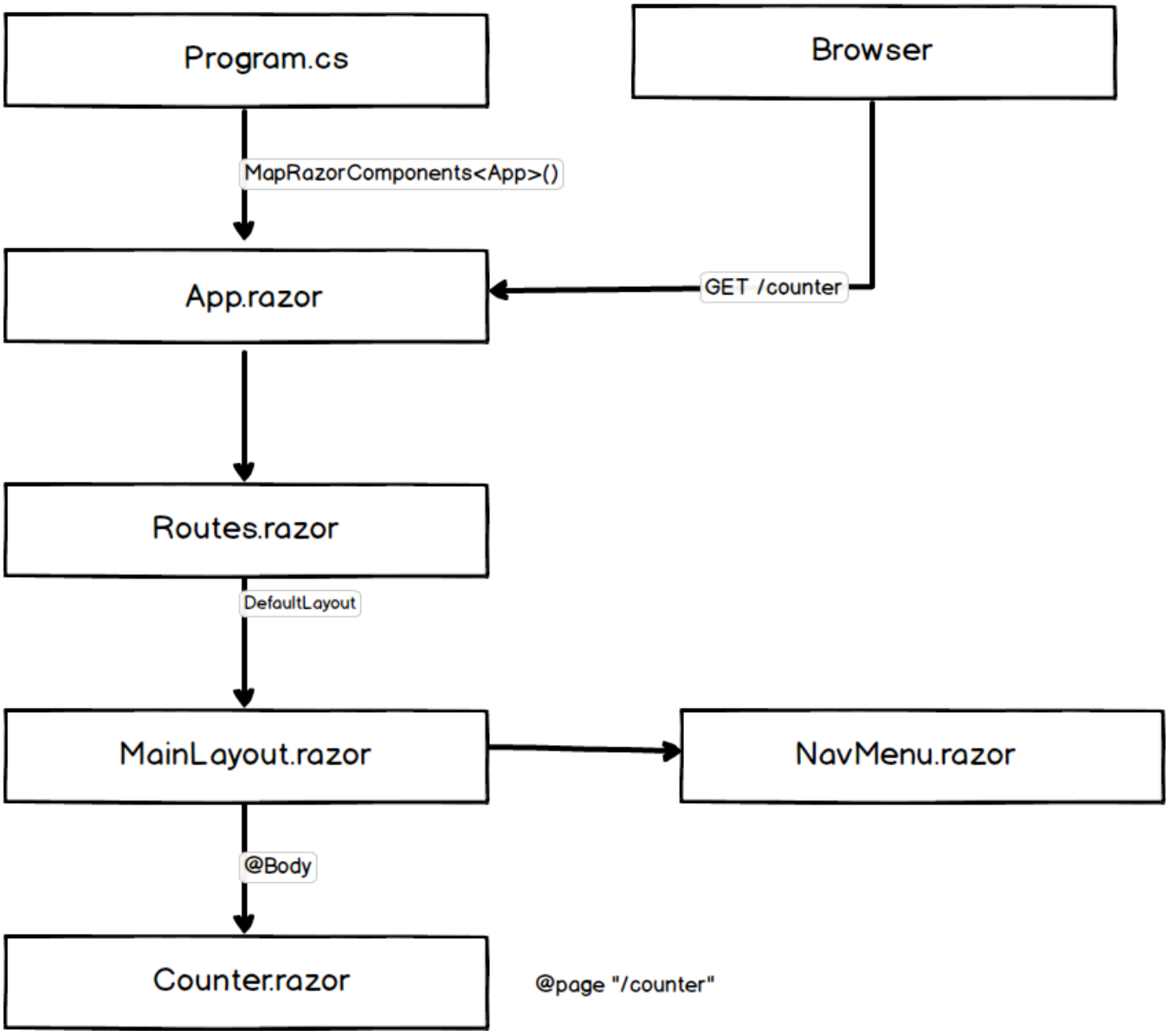


Blazor Web Assembly (Blazor Client-Side)

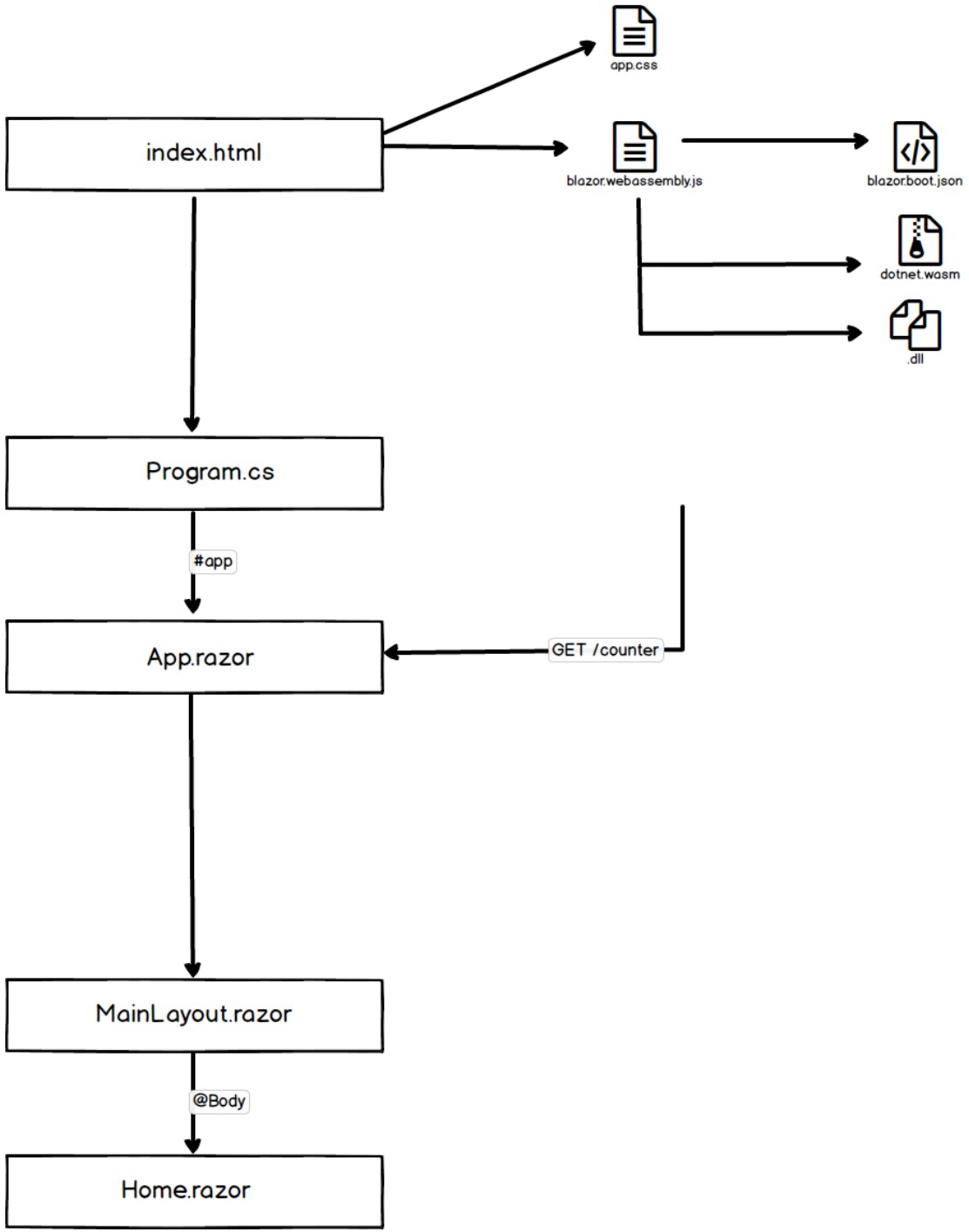


Project Structure

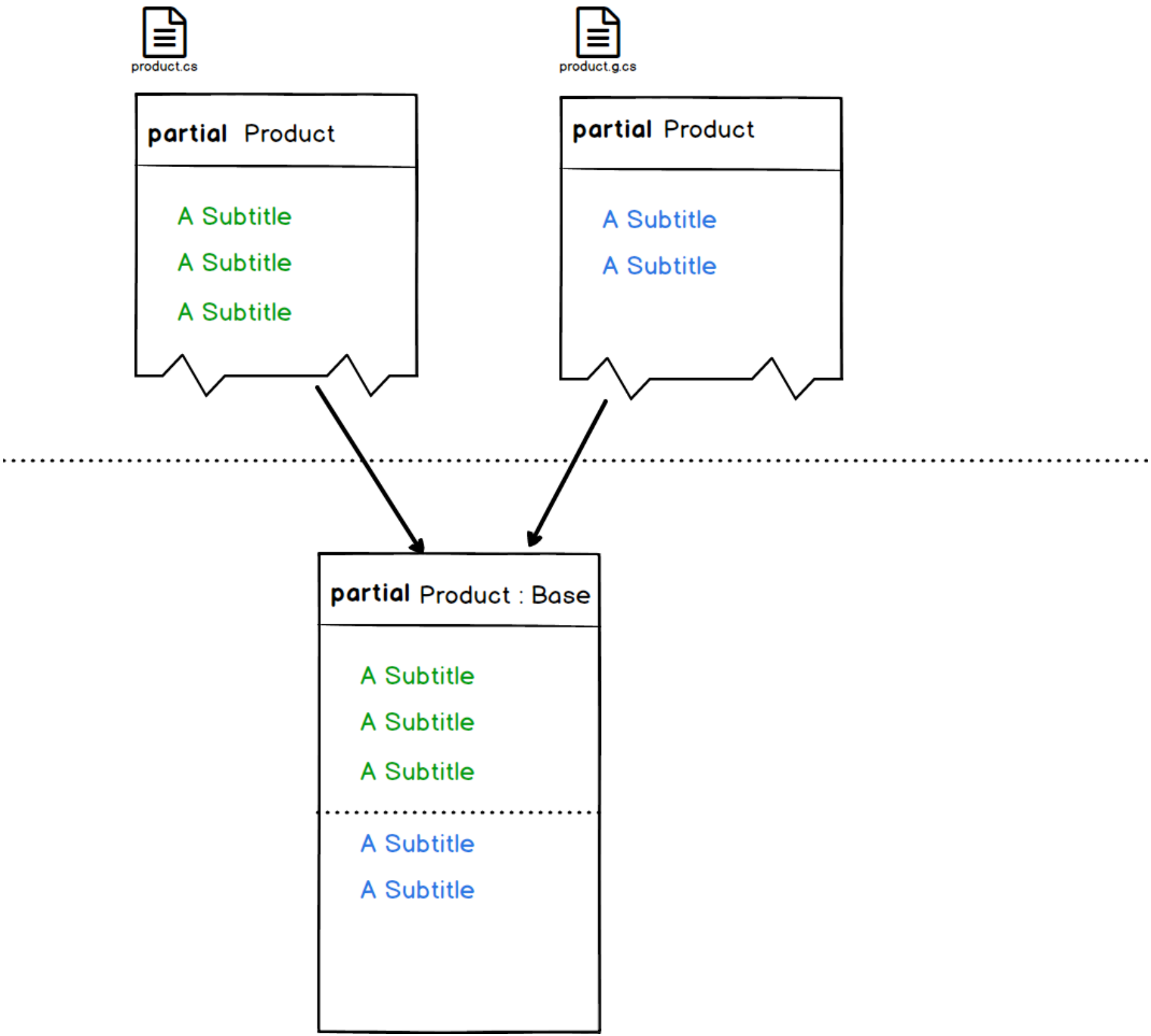
Project Structure - Blazor Server



Blazor Web Assembly

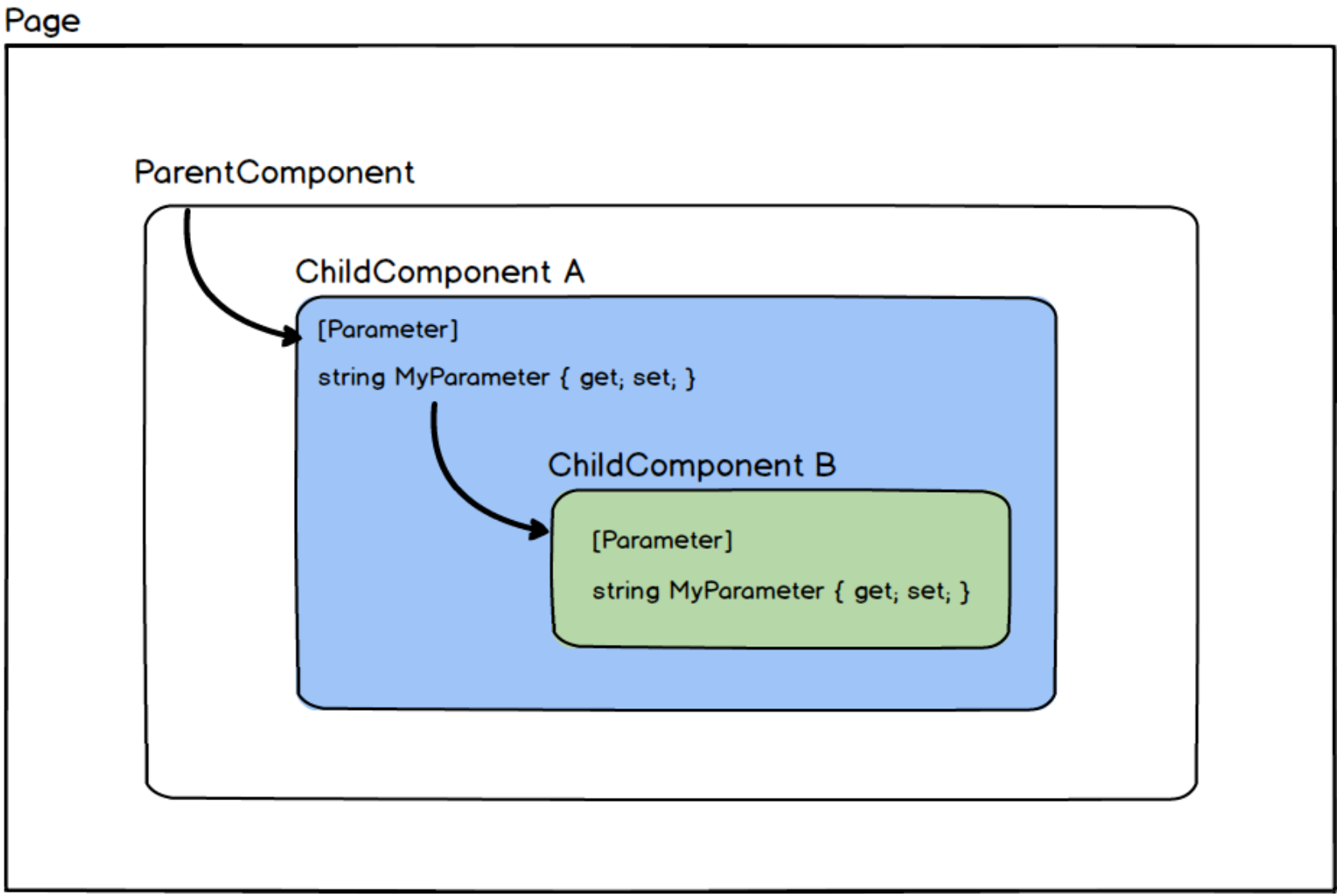


Pages

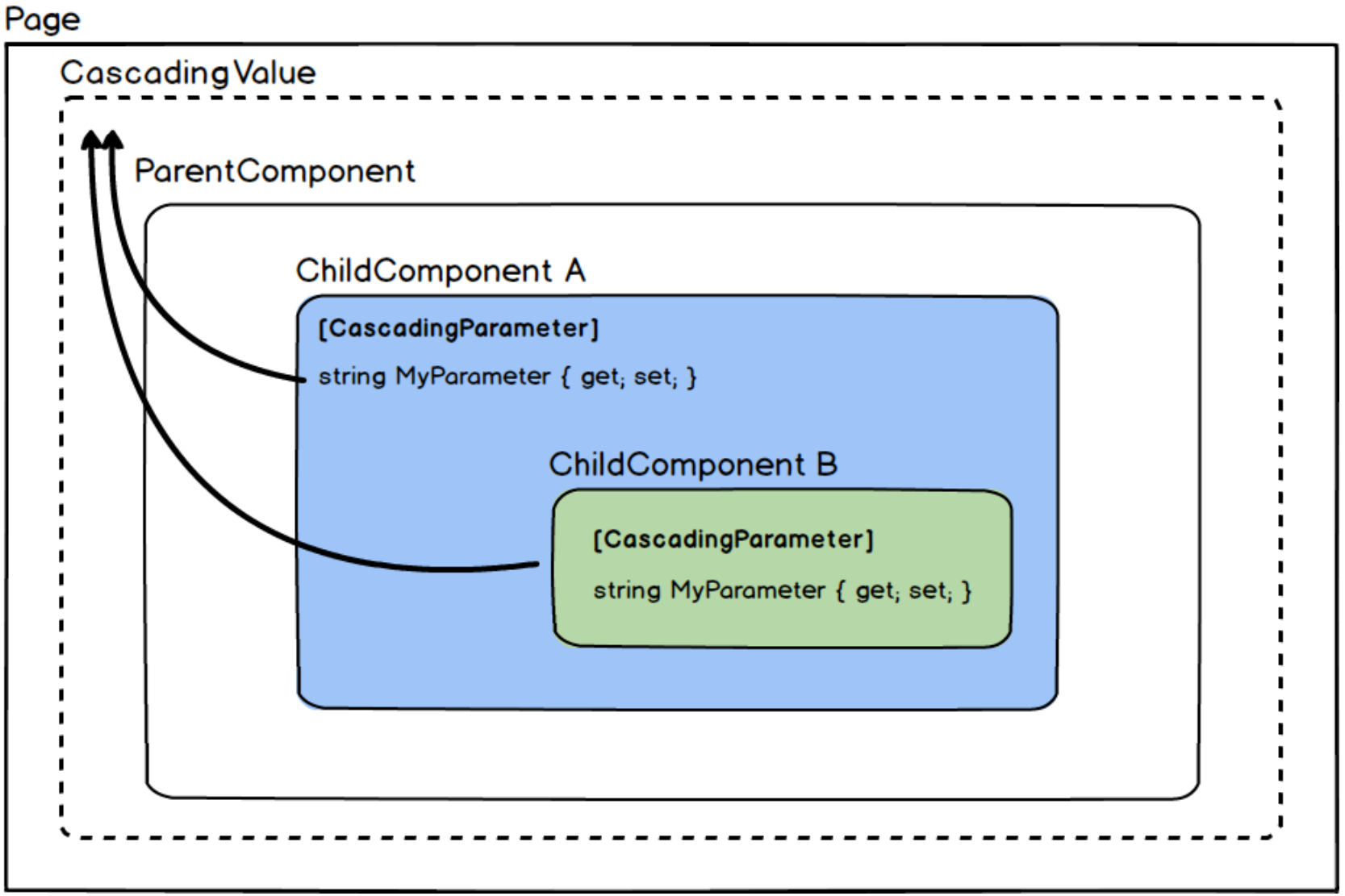

product.cs
product.g.cs
partial Product
A Subtitle
A Subtitle
A Subtitle
partial Product
A Subtitle
A Subtitle
partial Product : Base
A Subtitle
A Subtitle
A Subtitle
A Subtitle
A Subtitle

Parameters

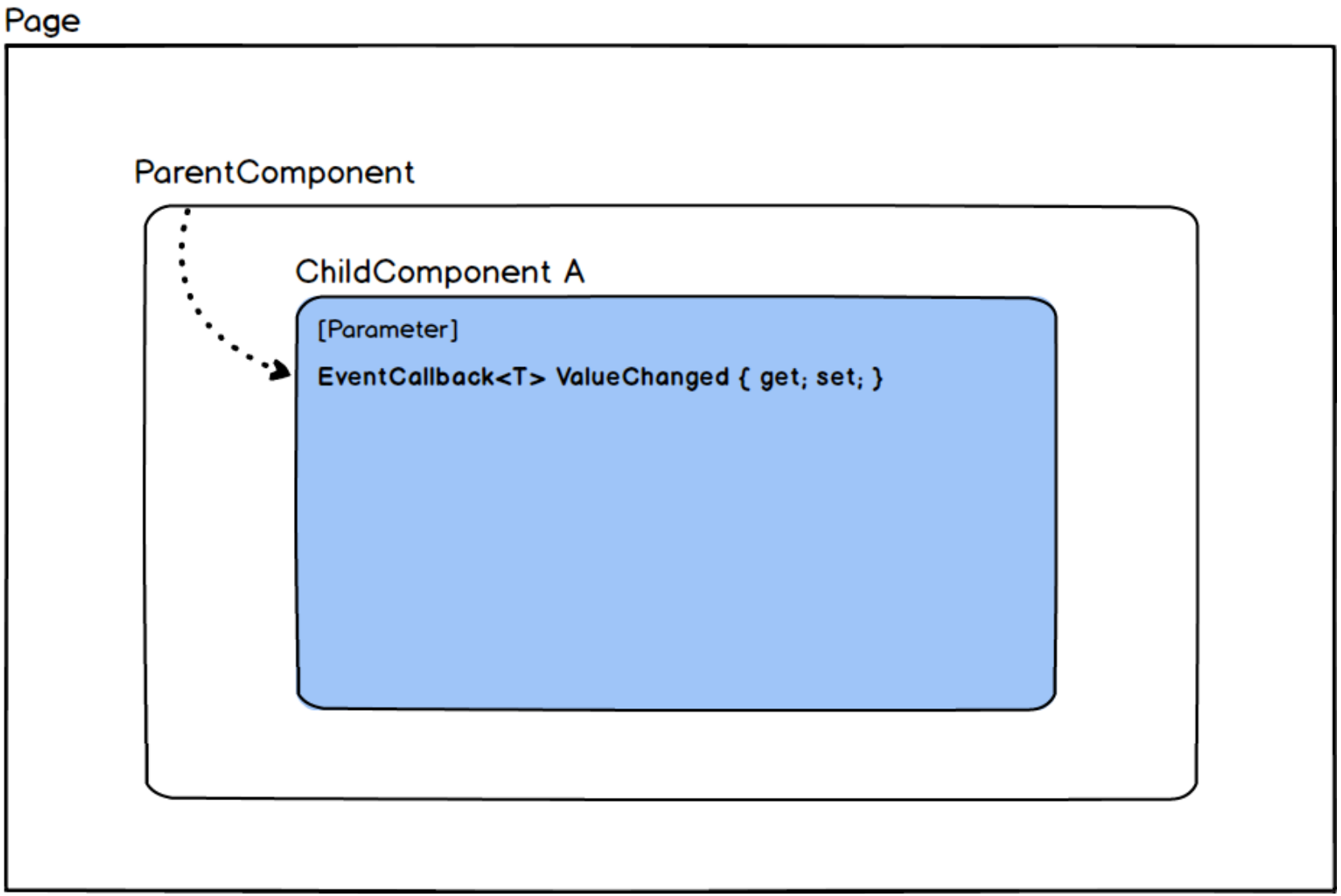
Parameter


Page
ParentComponent
ChildComponent A
[Parameter]
string MyParameter { get; set; }
ChildComponent B
[Parameter]
string MyParameter { get; set; }

Cascading Parameter



EventCallback



Authentication Authorization

Authentication / Authorization

Uwierzytelnianie

Authentication

kim jesteś?

Tożsamość

Identity

Principal

Autoryzacja

Authorization

do czego masz dostęp?

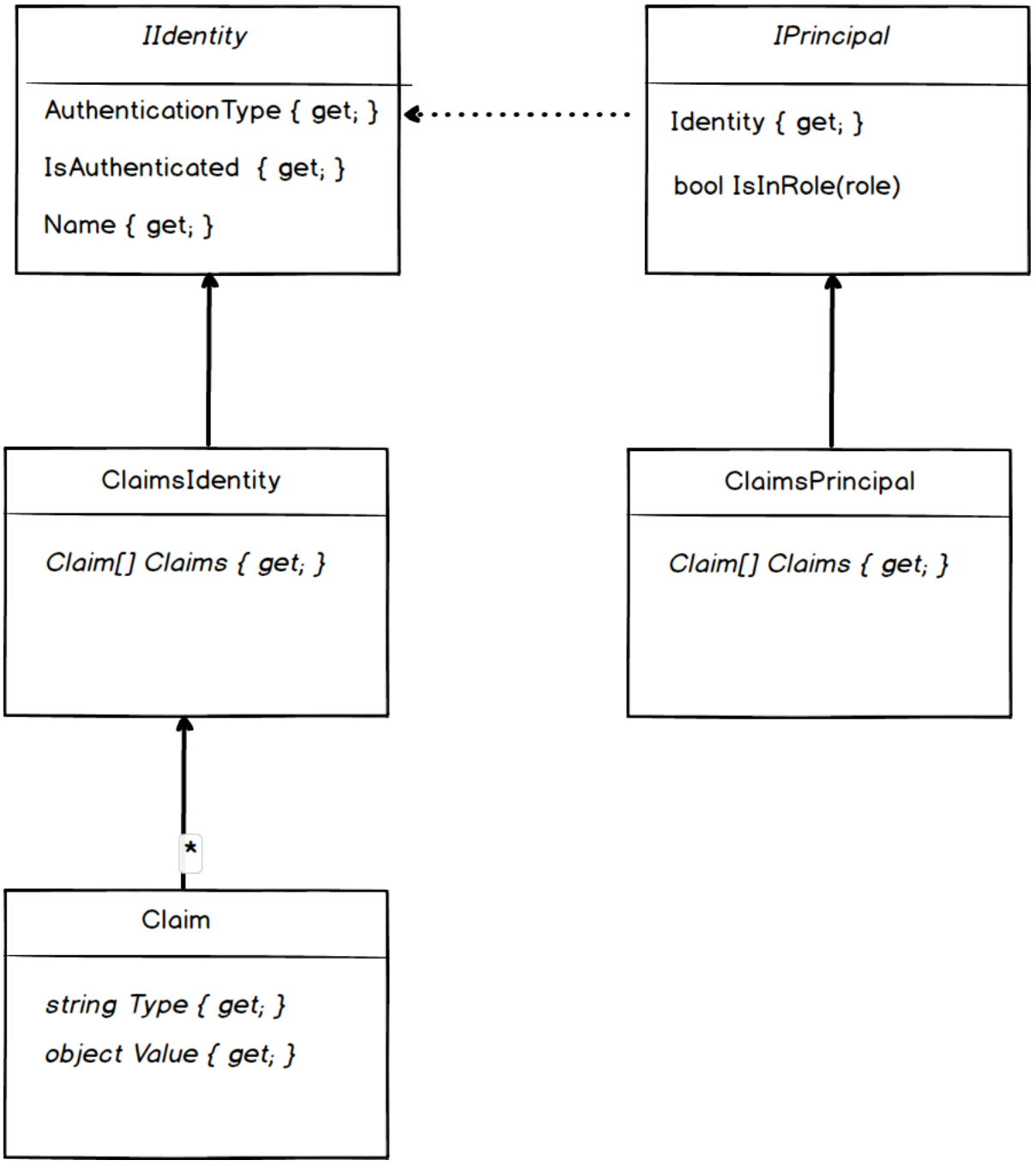
.UseAuthentication()

.UseAuthorization()

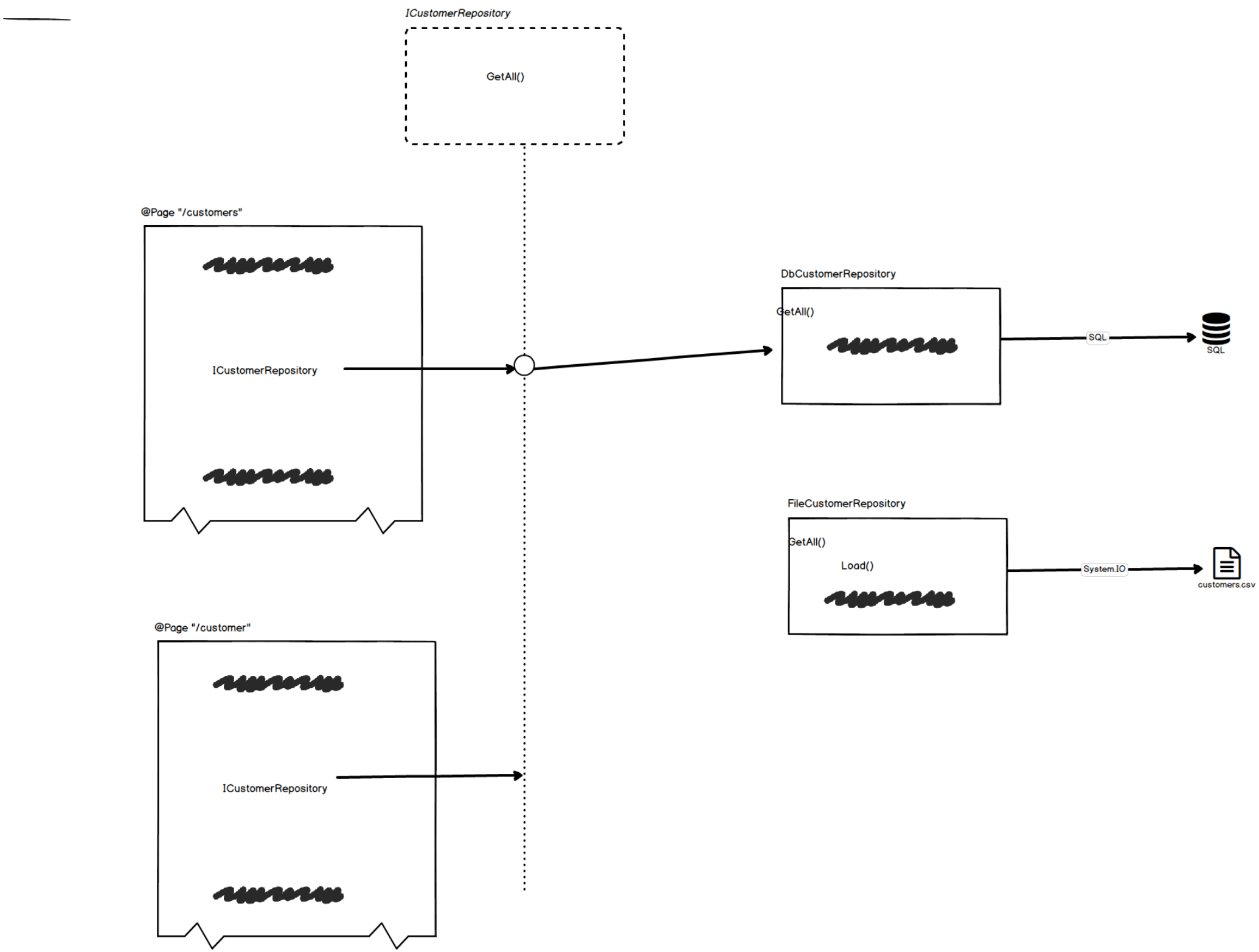
IIdentity vs IPrincipal

Identity

Principal

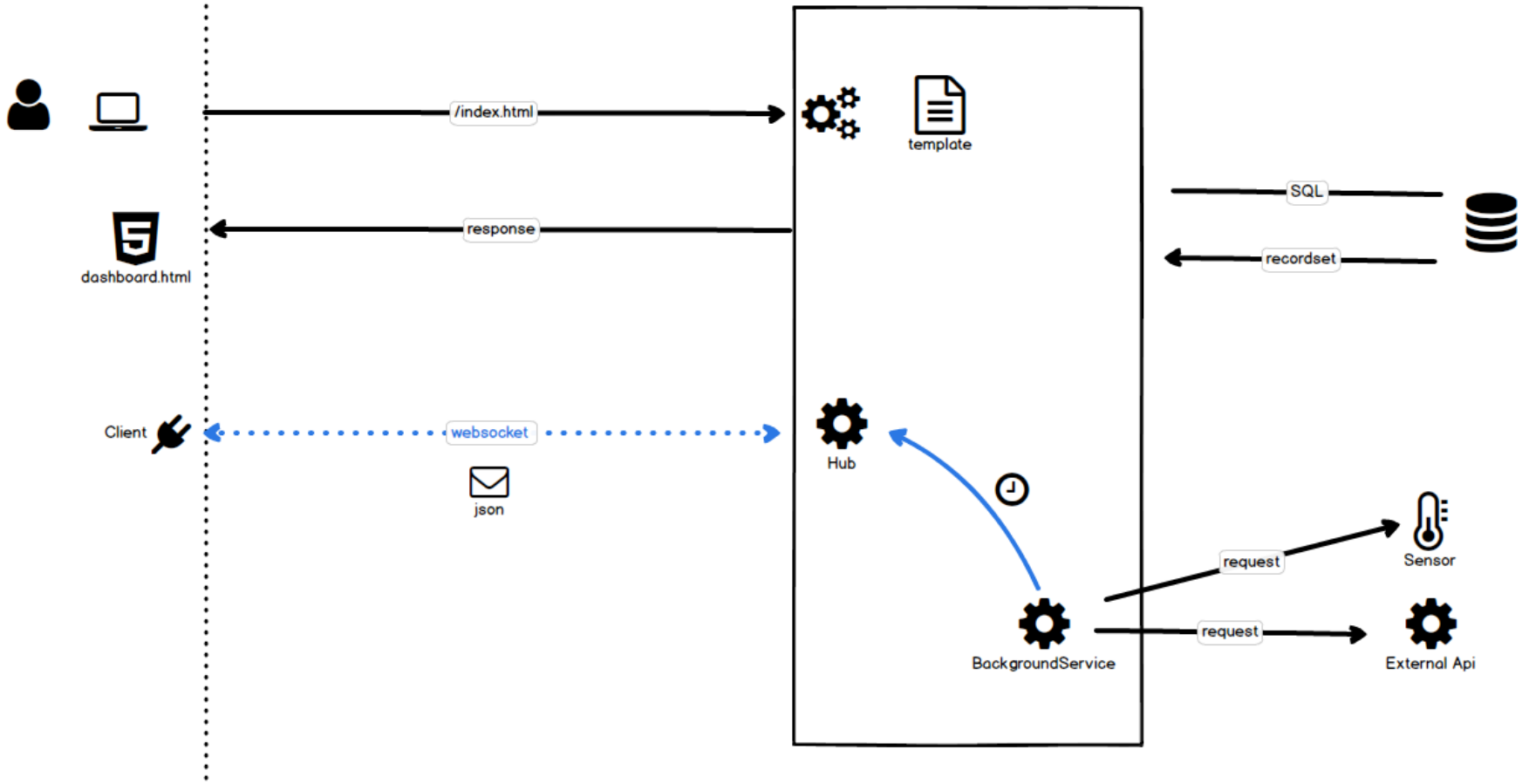


Dependency Injection

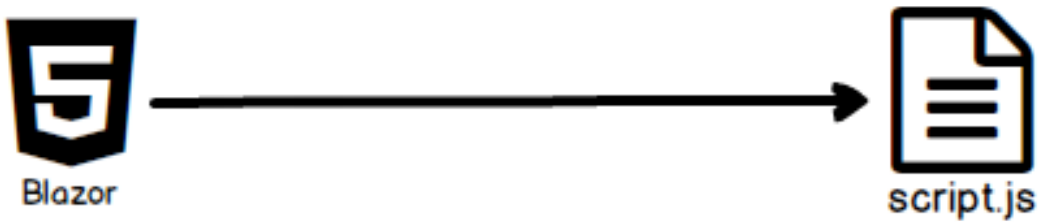

ICustomerRepository
GetAll()
@Page "/customers"
ICustomerRepository
DbCustomerRepository
GetAll()
SQL
SQL
FileCustomerRepository
GetAll()
Load()
System.IO
customers.csv
@Page "/customer"
ICustomerRepository

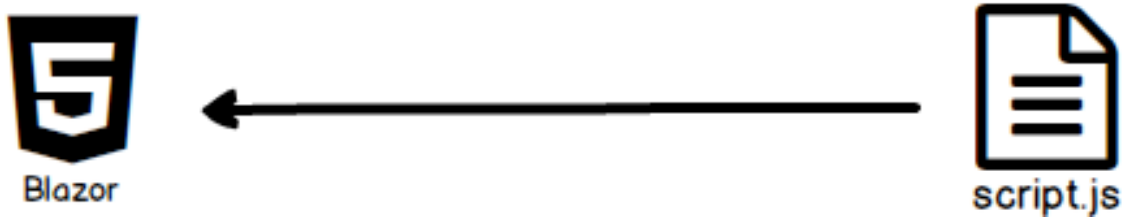
Real Time Communication

Signal-R


/index.html
template
SQL
response
recordset
dashboard.html
Client
websocket
Hub
json
request
Sensor
request
BackgroundService
External Api

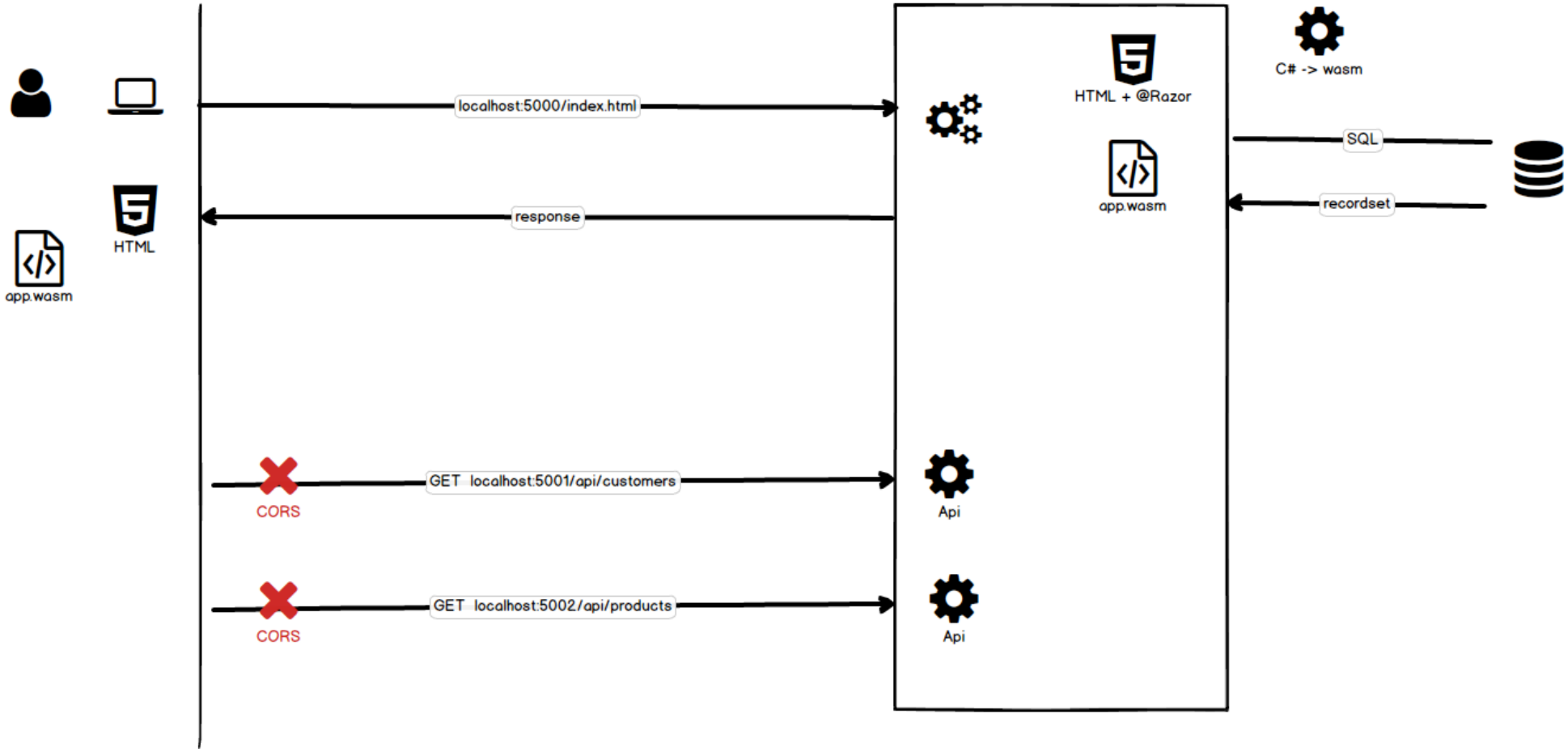
Blazor ❤ JS


Blazor
script.js

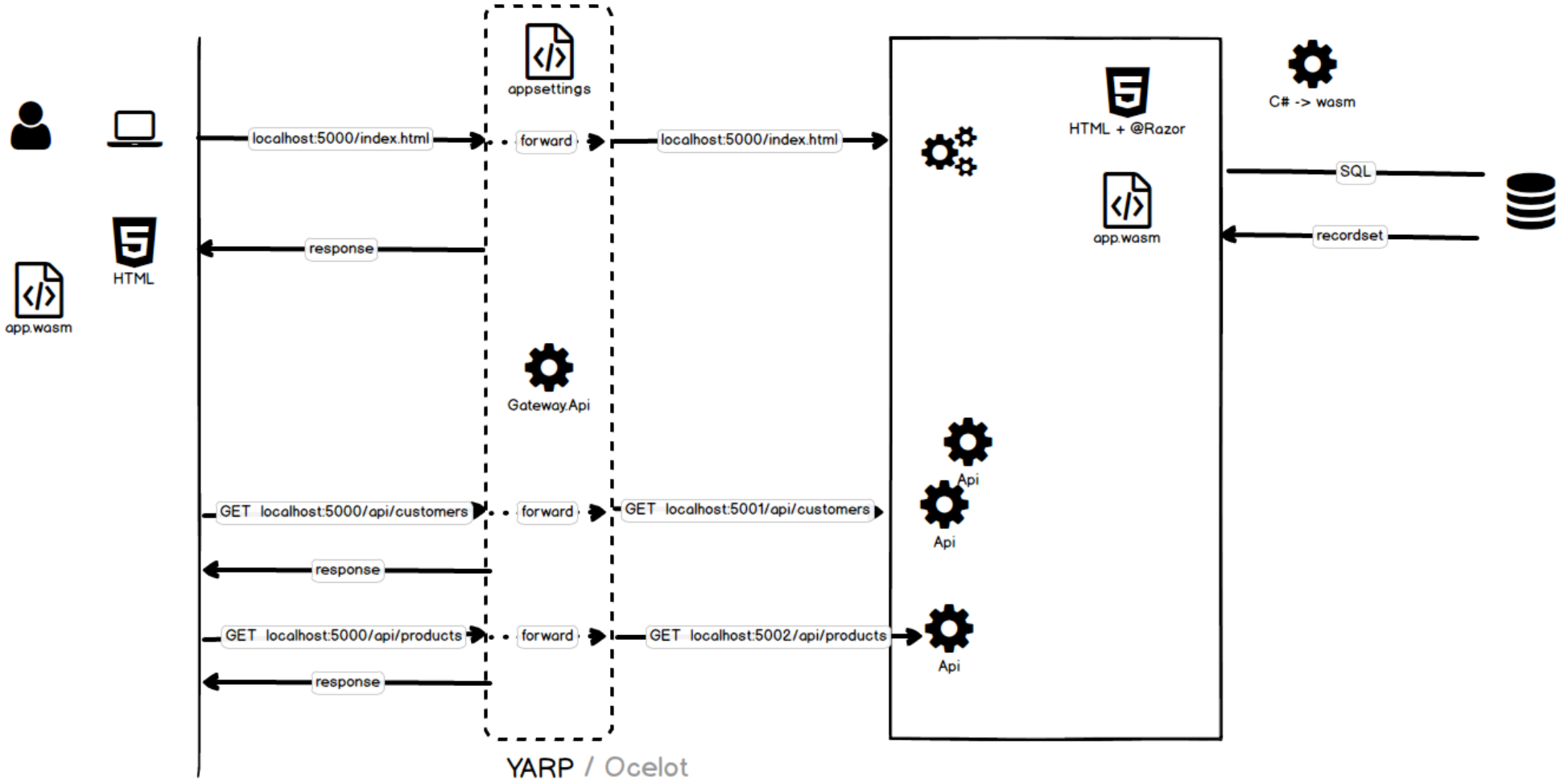

Blazor
script.js

Gateway API

CORS (Cross-Origin Resource Sharing)

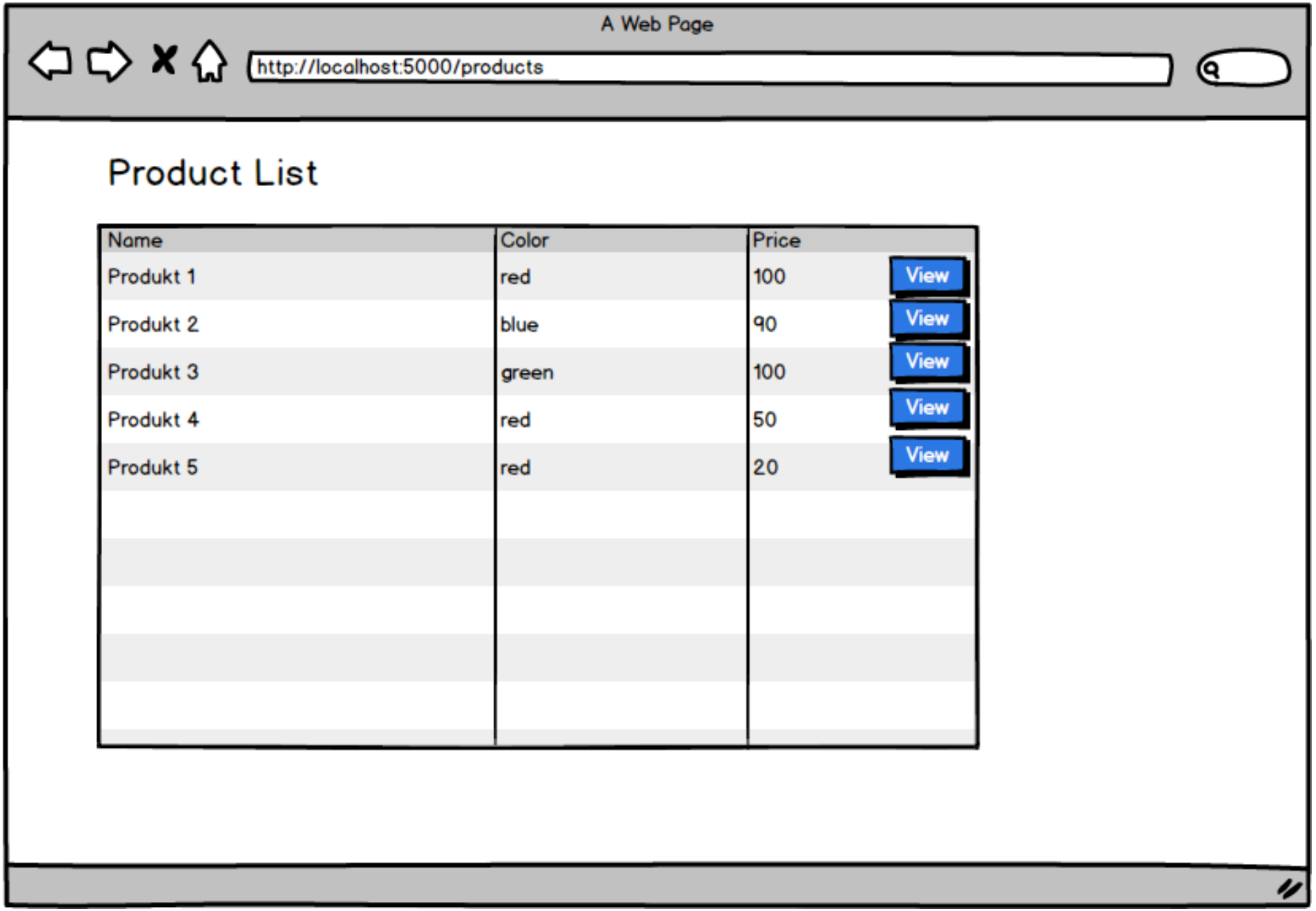


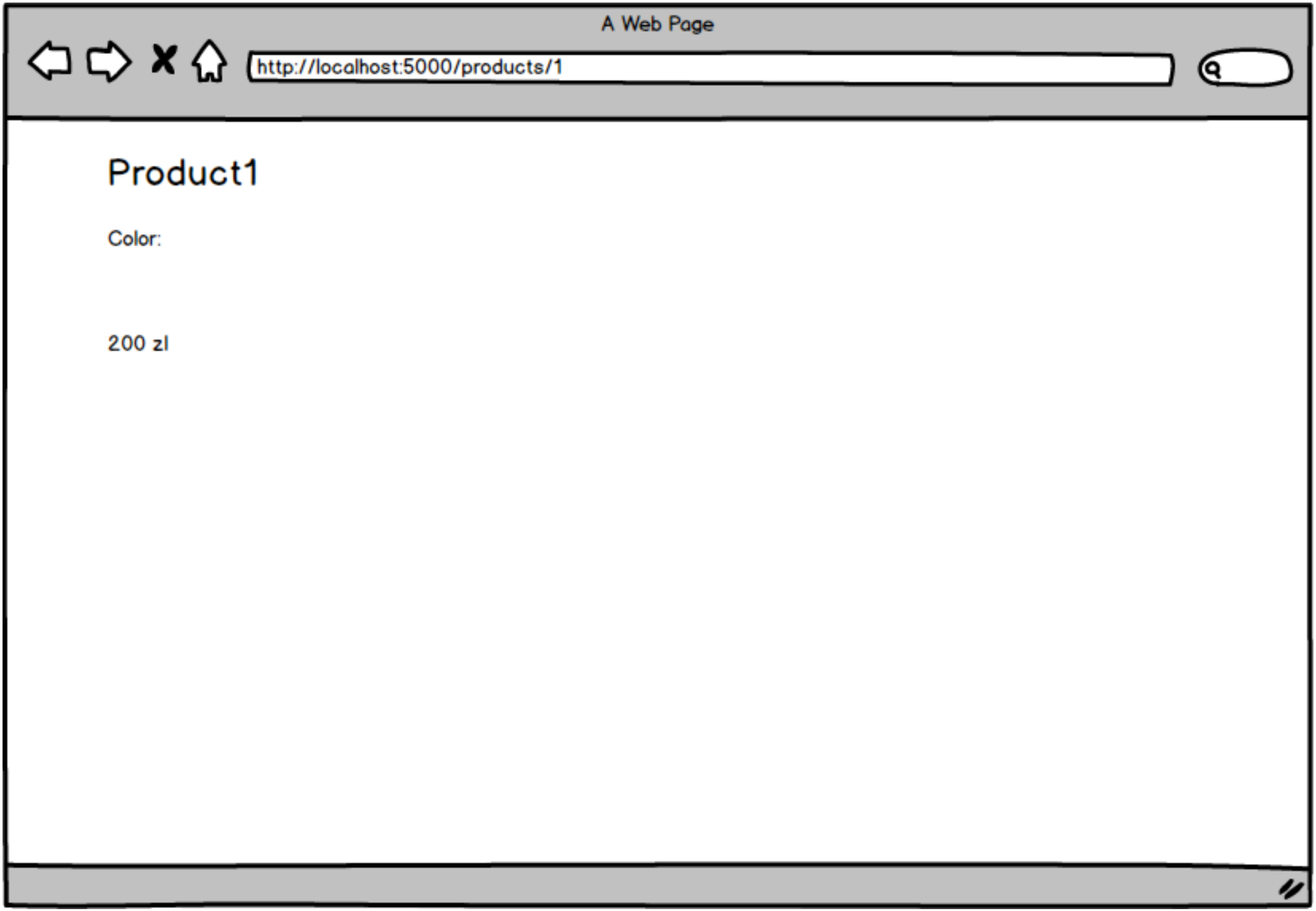
Gateway API


appsettings
localhost:5000/index.html
forward
localhost:5000/index.html
HTML + @Razor
C# -> wasm
SQL
recordset
app.wasm
response
HTML
app.wasm
Gateway.Api
Api
GET localhost:5000/api/customers
forward
GET localhost:5001/api/customers
Api
response
GET localhost:5000/api/products
forward
GET localhost:5002/api/products
Api
response
YARP / Ocelot

Excercises

Zadanie #1 Lista produktów




A Web Page
http://localhost:5000/products/1
Product1
Color:
200 zl

Zadanie #2 Dashboard