

PROGRAMISTOK25

AI



ChatGPT

AI



ChatGPT

AI

 Claude

The Claude logo icon is a small, orange-red graphic resembling a stylized asterisk or a cluster of stars with five points each, creating a symmetrical, flower-like pattern.



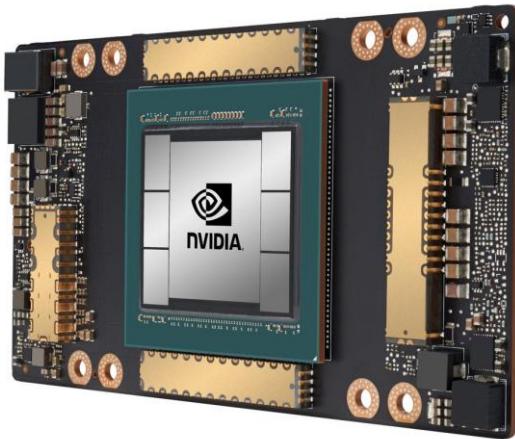
ChatGPT

AI





ChatGPT

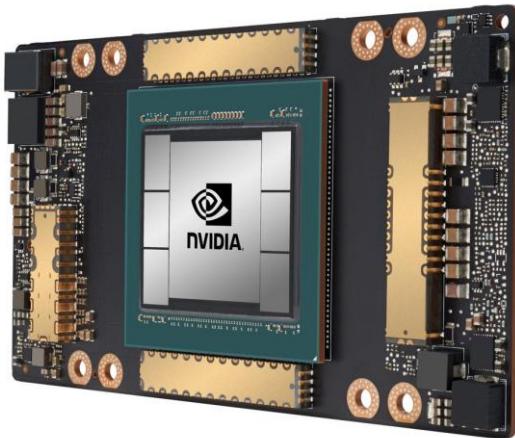


AI





ChatGPT



A

Gemini

Galaxy AI is here



le

Samsung Vision AI



Gemini

A

Galaxy AI is here



le

Samsung Vision AI



A

Galaxy Watch7

Galaxy AI is here



Samsung Vision AI



Family Hub™ AI

Lodówka ze zintegrowanym ekranem, łącznością Wi-Fi oraz dedykowanymi aplikacjami.



View Inside

Na ekranie smartfona możesz sprawdzić aktualną zawartość lodówki.



Galaxy Watch7

Galaxy AI is here



Samsung Vi

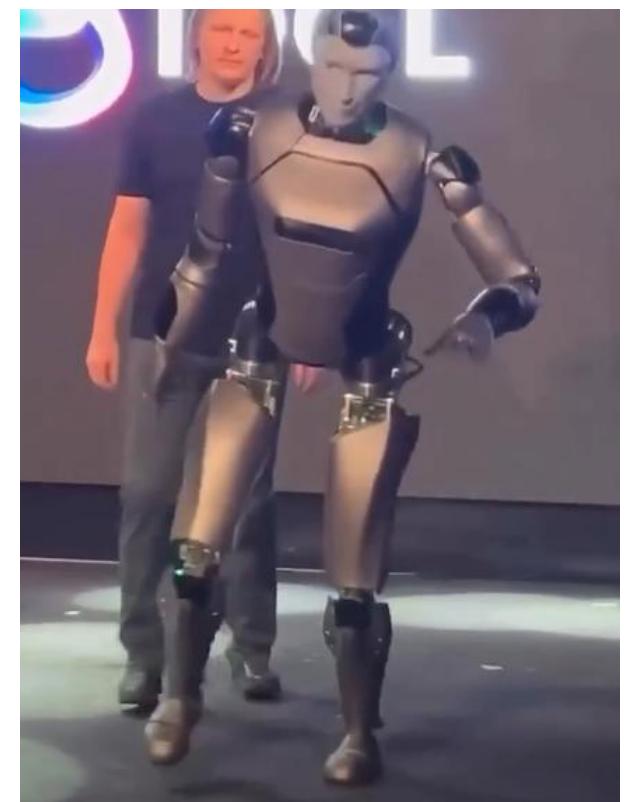


Watch7

is here





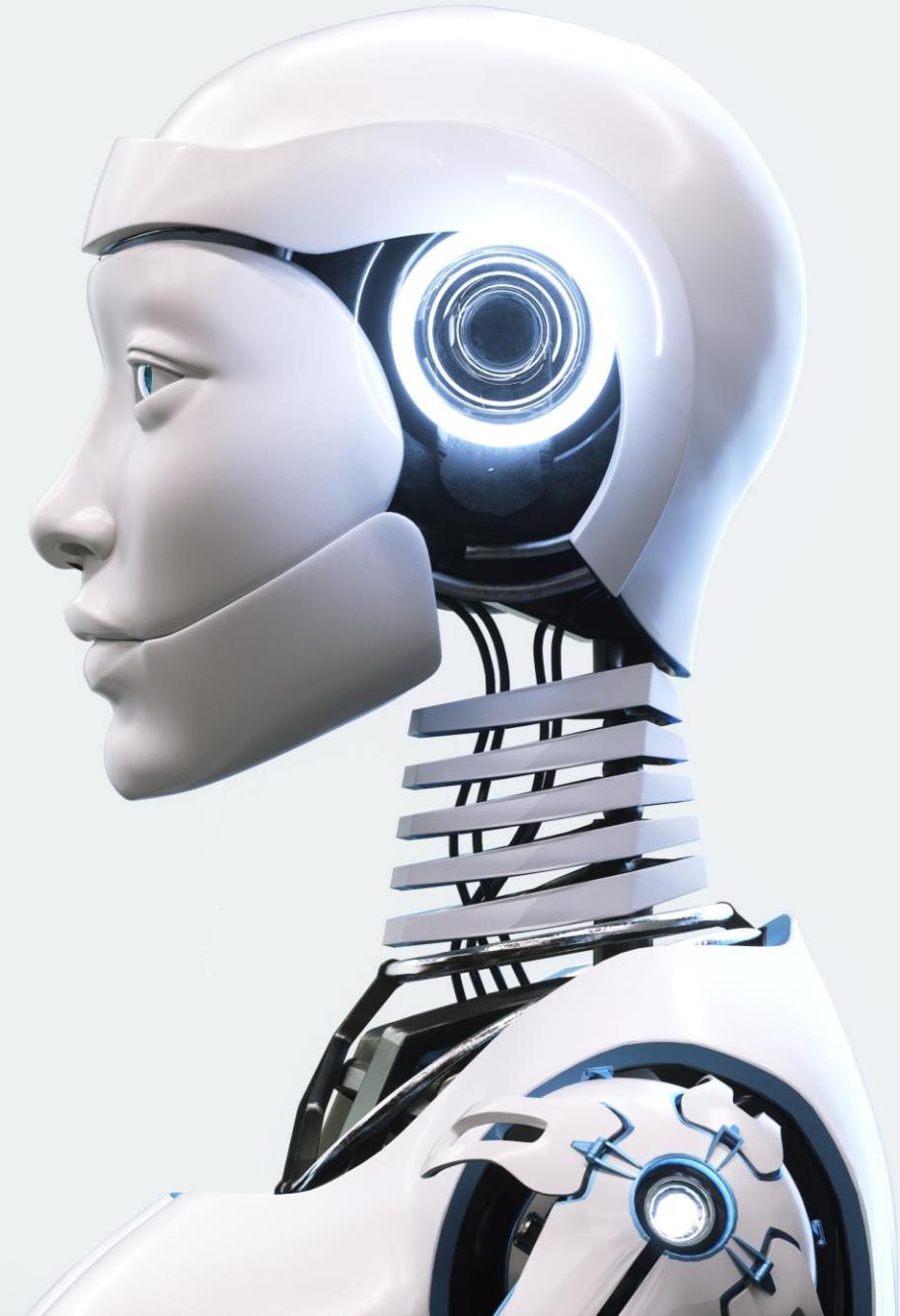




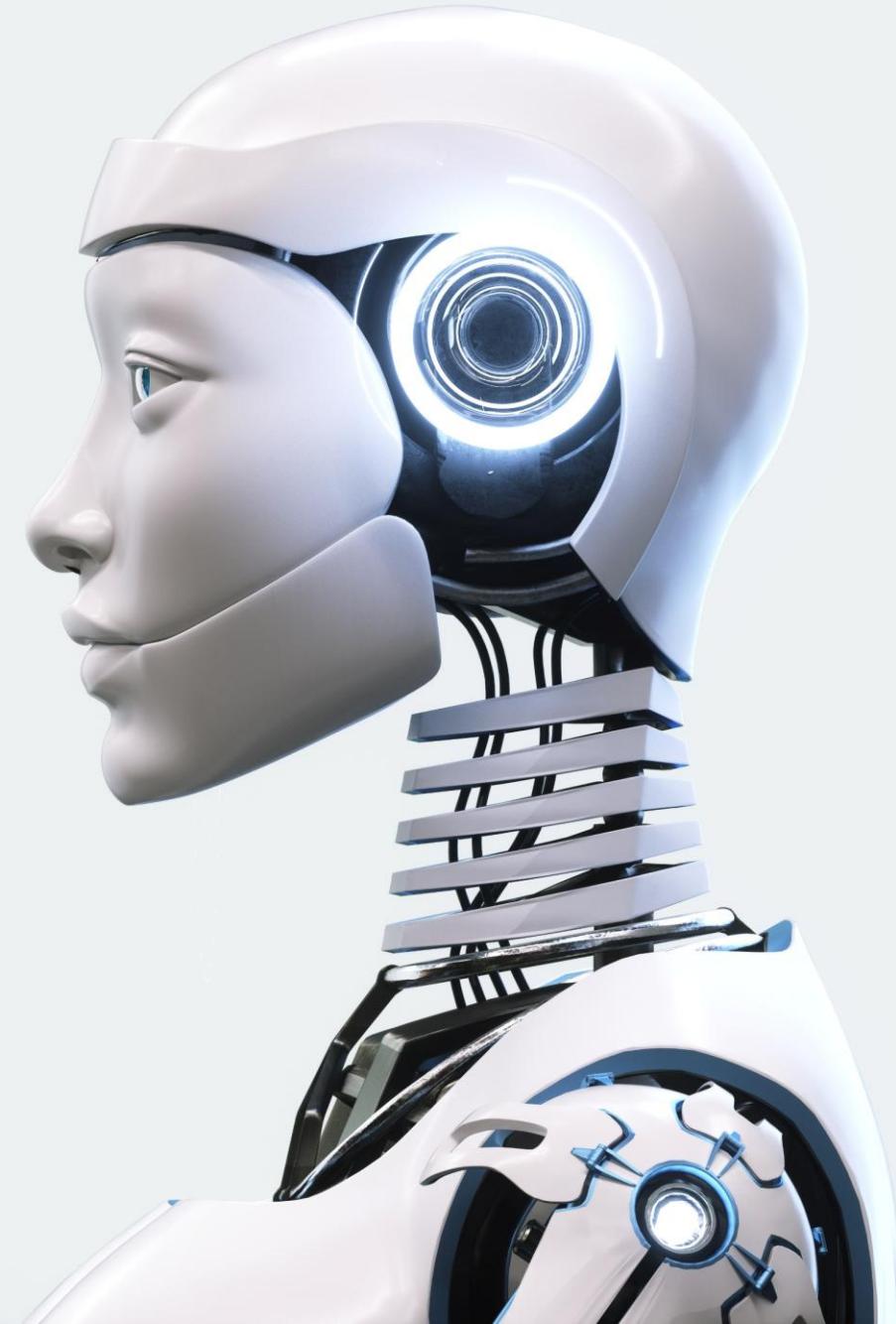
AI



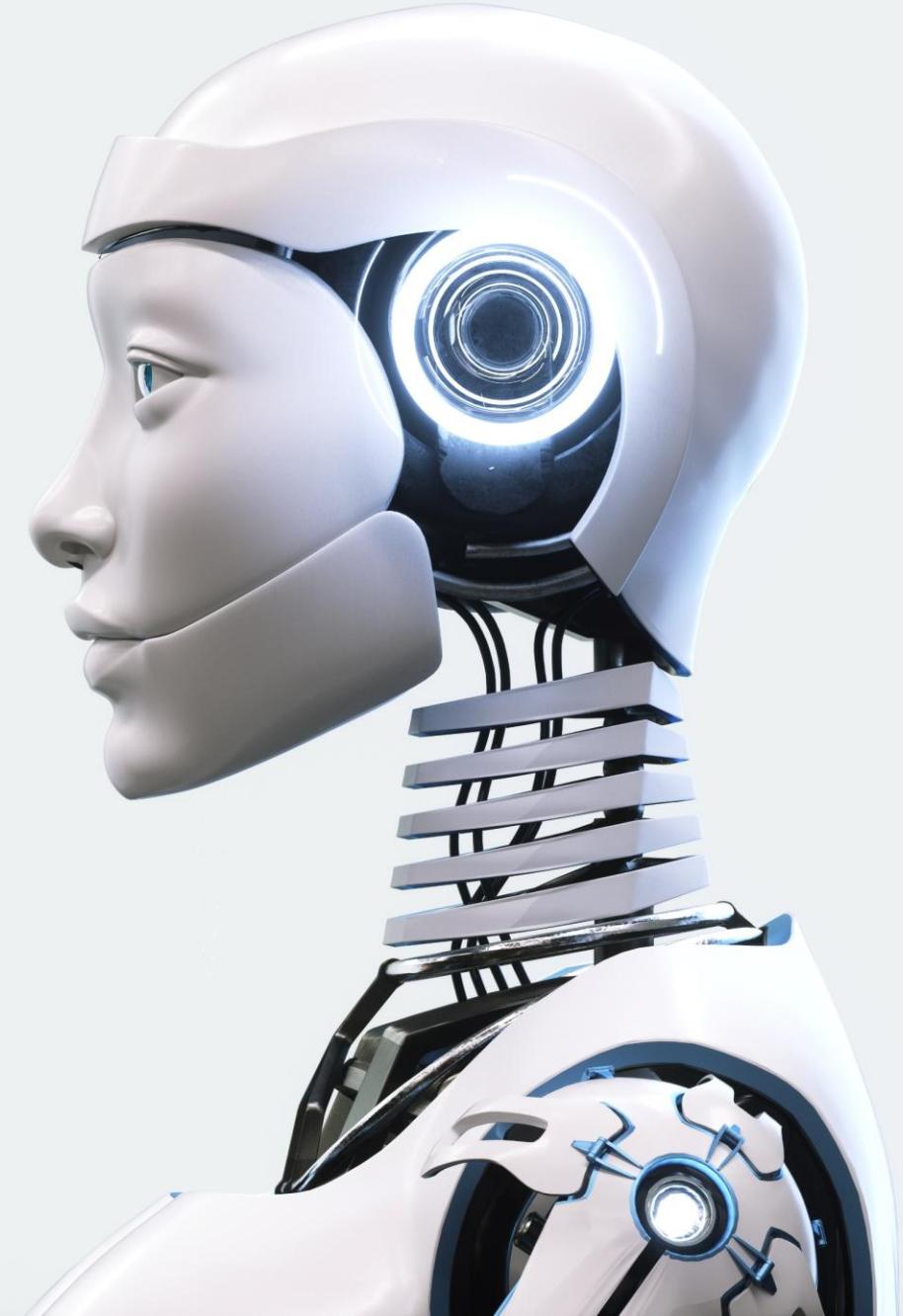
**AI WILL
STILL OUR
WORK**



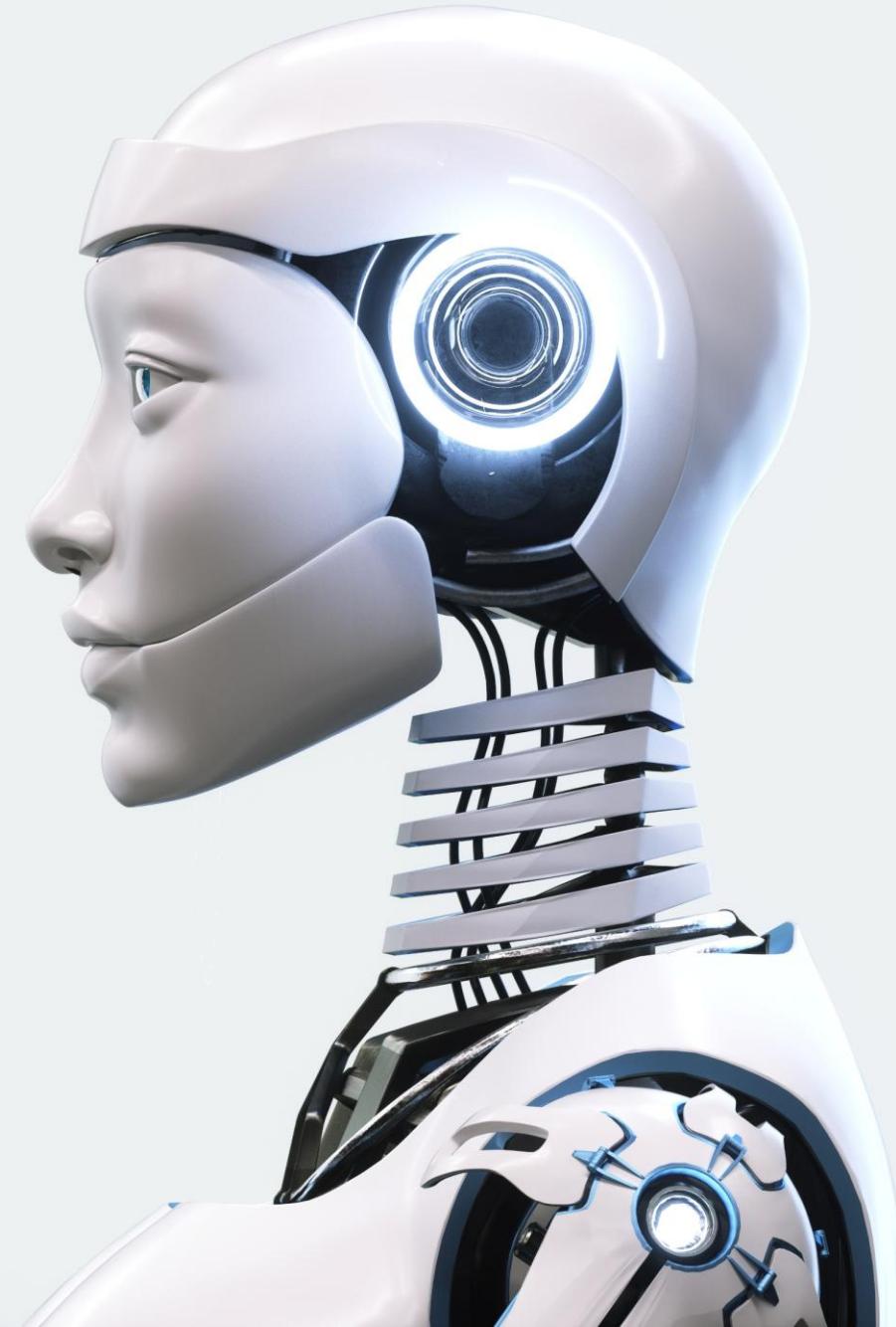
AI WILL
CHANGE OUR
WORK



HOW AI CHANGE OUR WORK



HOW AI CHANGED MY WORK



AI w architekturze i Programowaniu

AI w architekturze i Programowaniu

Sebastian Dąbkowski

Sebastian Dąbkowski

.NET 15 lat

Sebastian Dąbkowski

.NET 15 lat

Architecture 7 lat

Sebastian Dąbkowski

.NET 15 lat

Architecture 7 lat

Coding AI 6

Sebastian Dąbkowski

.NET 15 lat

Architecture 7 lat

Coding AI 6 miesięcy

Sebastian Dąbkowski

.NET 15 lat

Architecture 7 lat

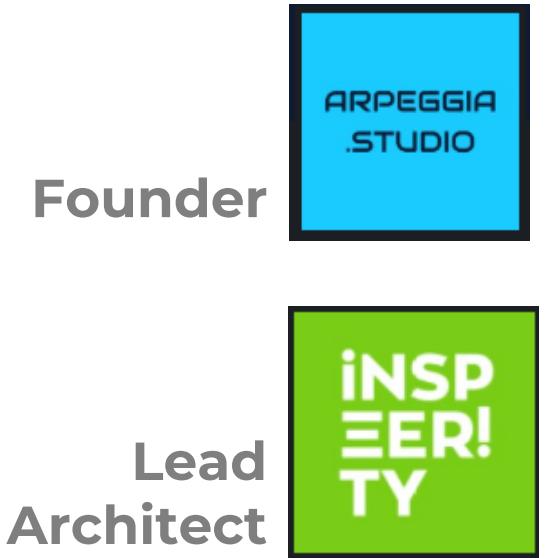
Coding AI 6 miesięcy

Founder



Sebastian Dąbkowski

.NET 15 lat
Architecture 7 lat
Coding AI 6 miesięcy



Founder
Lead Architect

Sebastian Dąbkowski

AI w architekturze i Programowaniu

Sebastian Dąbkowski

AI w architekturze i Programowaniu

Let me tell you...

Let me tell you...

a story

Let me tell you...

a story

**about an imaginary
client**

MAIL



Temat: Zapytanie o realizację systemu „Mercato” – marketplace dla sklepów internetowych

Od: Jan Kowalski jan.kowalski@example.com

Do: Sebastian Dąbkowski

Cześć Sebastian,

chciałbym zlecić stworzenie systemu o nazwie **Mercato**. Ma to być **platforma typu marketplace**, która połączy różne sklepy internetowe w jednym miejscu.

Zależy mi, żeby Mercato miało dwa główne obszary:

1. **Panel sprzedawcy** – miejsce, gdzie sklepy mogą się rejestrować, dodawać produkty, zarządzać zamówieniami, płatnościami, wysyłkami i usługą klientów. Każdy sklep powinien mieć własny mini-panel administracyjny, ale cały system działa w ramach jednej wspólnej platformy.

2. **Strona dla kupujących** – portal, na którym użytkownicy mogą przeglądać oferty różnych sklepów, dodawać produkty do koszyka, kupować je, wystawiać opinie i śledzić swoje zamówienia.

Funkcjonalnie chciałbym, żeby Mercato oferowało pełny zestaw funkcji, jakie ma współczesny marketplace:

- rejestracja i logowanie użytkowników (kupujący, sprzedawcy, administratorzy),
- wystawianie i edycja produktów (zdjęcia, opisy, ceny, stany magazynowe),
- wyszukiwanie i filtrowanie ofert,
- koszyk zakupowy, płatności online, historia zamówień,
- obsługa wysyłek i integracja z firmami kurierskimi,
- system ocen i komentarzy,
- panel administracyjny do moderowania ofert i użytkowników,
- powiadomienia e-mail i webowe,
- statystyki sprzedaży i raporty dla sprzedawców.

Zależy mi, żeby system był przygotowany tak, by można go było łatwo rozwijać o kolejne moduły (np. promocje, programy lojalnościowe, integracje z zewnętrznymi sklepami przez API).

Chciałbym, abyś pomógł mi zaplanować architekturę rozwiązania, określił etapy realizacji i przedstawił wstępny harmonogram prac.

Pozdrawiam,

Jan Kowalski

Założyciel projektu Mercato

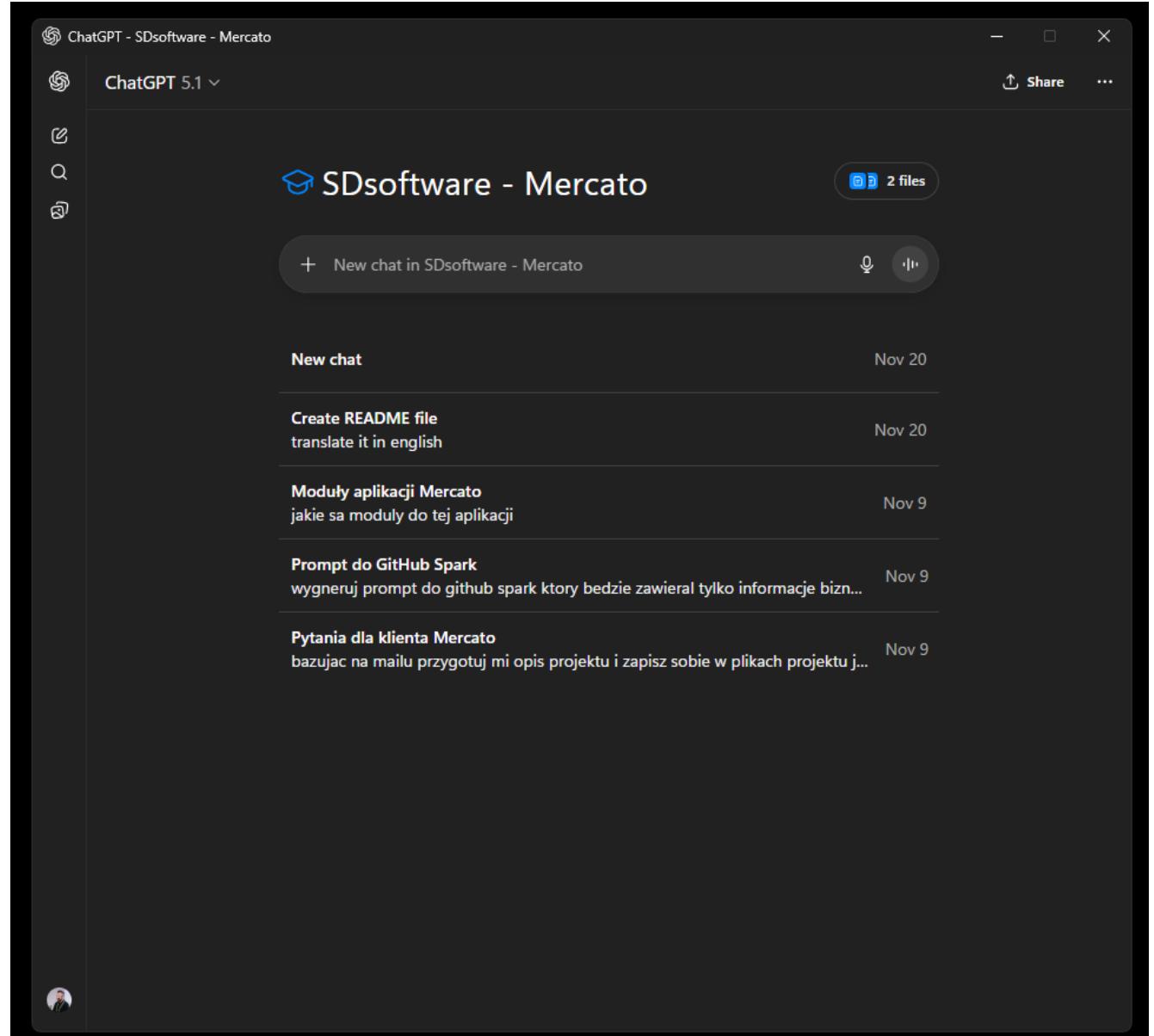


MEETING

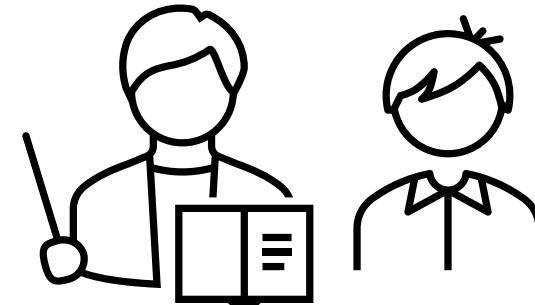
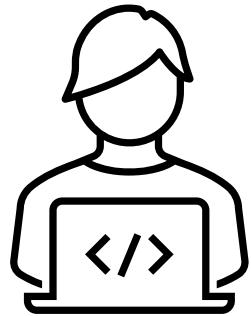




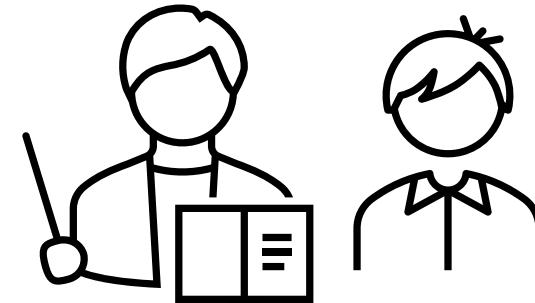
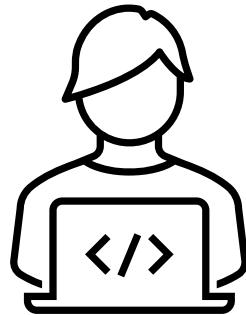
Instruction Templates Project Info



MEETING 1

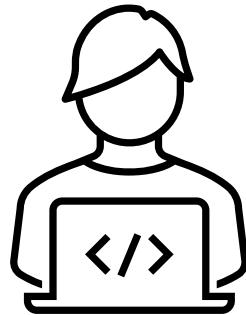


MEETING 1



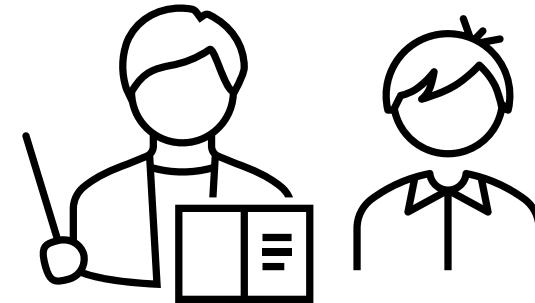
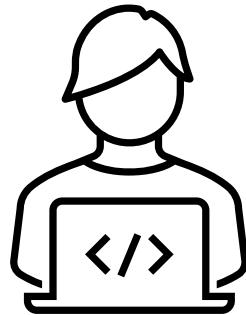
MEETING 1





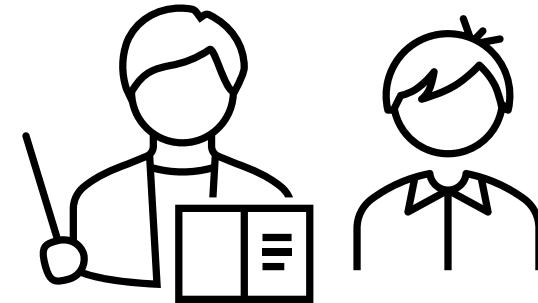
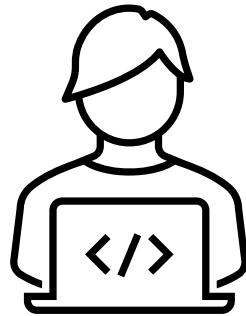
MEETING 1



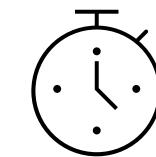
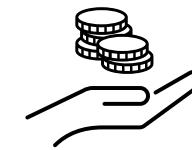
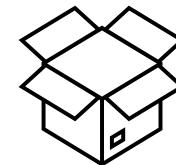
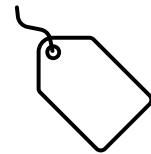


MEETING 1





MEETING 1





MEETING 1





The screenshot shows the ChatGPT application interface. On the left, there is a sidebar titled "SDsoftware - Mercato" containing icons for user profile, search, and other functions. Below the sidebar, a "Project files" section displays two files: "mercato_project_description.md" and "mercato_transkrypt_spotkania_2025-11-09_18-51.md". On the right, the main workspace is titled "- Mercato" and shows a list of messages. The messages are as follows:

- Nov 20
- Nov 20
- Nov 9
- spark ktory bedzie zawieral tylko informacje bizn... Nov 9
- mi opis projektu i zapisz sobie w plikach projektu j... Nov 9



ChatGPT

SDsoftware - Mercato - Prompt do GitHub Spark > ChatGPT

Prompt: Mercato – Marketplace for Online Stores (Business Description)

The project *Mercato* is a web-based multi-vendor marketplace connecting independent online stores in a unified system. The platform consists of three main areas:

1. Seller Panel – for merchants to register, add and manage products, process orders, handle payments and shipping, and view sales statistics.
2. Buyer Portal – for customers to browse and search products, add items to a cart, place and pay for orders, track delivery, and leave reviews.
3. Administration Panel – for the platform operator to manage users, listings, fees, reports, and system configuration.

The business goal is to enable small and medium-sized online stores to reach a broader audience without building their own infrastructure. *Mercato*'s revenue model is primarily based on **sales commissions**, with optional **subscription plans** and **featured listings** in later phases.

The MVP scope includes:

- User registration and login (buyers and sellers).
- Store profiles and product management (add, edit, delete products with descriptions, prices, and stock).
- Product browsing with categories, filters, and search.
- Shopping cart, checkout, and secure online payments via an integrated payment gateway.
- Order management (view, status update, basic returns).
- Basic notifications (email confirmations, order status).
- Simple sales dashboard for sellers and administrators.

Post-MVP extensions include: reviews and ratings, loyalty programs, advanced analytics.

+ Ask anything

ChatGPT - SDsoftware - Mercato

ChatGPT 5.1

Share ...

SDsoftware - Mercato

2 files

Nov 20

ADME file
it in english

Nov 20

Aplikacji Mercato
moduły do tej aplikacji

Nov 9

O GitHub Spark
prompt do github spark który będzie zawierał tylko informacje bizn...

Nov 9

Ia klienta Mercato
a mailu przygotuj mi opis projektu i zapisz sobie w plikach projektu j...

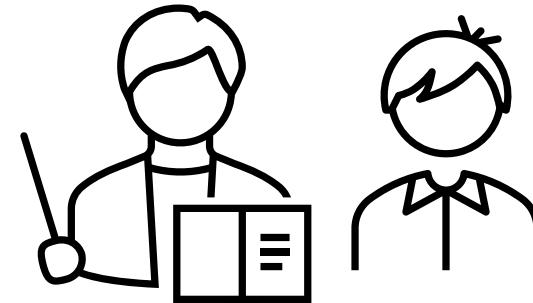
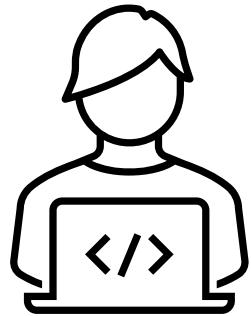
Nov 9



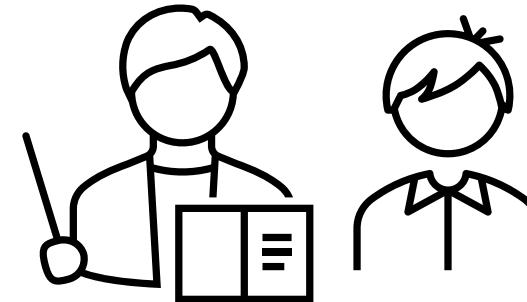
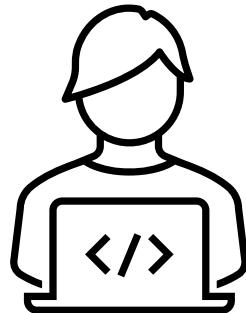
The image shows a screenshot of the Mercato marketplace platform. On the left, there's a sidebar with a dark theme, displaying a login form for 'Mercato Multi-Vendor Marketplace Platform'. The main area has a light theme. At the top, there's a navigation bar with tabs like 'Home', 'Theme', 'Data', 'Prompt', and 'Assets'. A 'Publish' button is visible in the top right. In the center, there's a 'Mercato - Marketplace for Online Stores (Business Description)' section with a 'Report Errors' button. Below it, a 'For all reported errors' dropdown shows two items: 'Wireless Bluetooth Headphones' and 'USB-C Hub 7-in-1'. The main content area displays a grid of products:

- Wireless Bluetooth Headphones**: An image of black headphones on a yellow background. Description: High-quality over-ear headphones with active noise cancellation, 30-hour battery life. Vendor: TechHub Poland. Price: 299,99 zł. Add to Cart button.
- USB-C Hub 7-in-1**: An image of a silver USB-C hub with multiple ports. Description: Multiport adapter with HDMI, USB 3.0 ports, SD card reader, and power... Vendor: TechHub Poland. Price: 149,00 zł. Add to Cart button.
- Mechanical Gaming Keyboard**: An image of a grey mechanical keyboard. Description: RGB backlit mechanical keyboard with blue switches, aluminum frame, and... Vendor: TechHub Poland. Price: 399,00 zł. Add to Cart button.
- Cotton Casual T-Shirt**: An image of a person wearing a white t-shirt. Description: Premium 100% organic cotton t-shirt, available in multiple colors... Vendor: StyleWave. Price: 79,99 zł. Add to Cart button.

At the bottom, a message says 'What do you want to change?' with arrows pointing left and right.



MEETING 2



MEETING 2

Mercato
Welcome, Jan Kowalski

Shop My Orders

Logout

Search products or sellers...

Wireless Bluetooth Headphones
High-quality over-ear headphones with active noise cancellation, 30-hour...
TechHub Poland
299,99 zł Add to Cart

USB-C Hub 7-in-1
Multiport adapter with HDMI, USB 3.0 ports, SD card reader, and power...
TechHub Poland
149,00 zł Add to Cart

Mechanical Gaming Keyboard
RGB backlit mechanical keyboard with blue switches, aluminum frame, and...
TechHub Poland
399,00 zł Add to Cart

Cotton Casual T-Shirt
Premium 100% organic cotton t-shirt, available in multiple colors...
StyleWave
79,99 zł Add to Cart

Mercato
Welcome, Jan Kowalski

Ceramic Plant Pot Set
Set of 3 handcrafted ceramic plant pots with drainage holes and saucers. Modern...
HomeComfort

129,00 zł 18 in stock Add to Cart

Mercato Admin Panel
Sebastian Dabrowski

Logout

Overview Users Products Orders

Total Users 8 (3 sellers, 3 buyers) Update

Active Products 10 (Listed on marketplace)

Total Orders 5 (All time)

GMV 1604,95 zł (Gross Merchandise Value) 240,74 zł

Platform Commission
Commission Rate (%) 15 Update

Estimated Platform Revenue: 240,74 zł

Recent Activity

Order #mhscxm1 Jan Kowalski → StyleWave 79,99 zł

Order #order004 Tomasz Zieliński → TechHub Poland 399,00 zł



MEETING 2





The screenshot shows the ChatGPT application interface. On the left, there is a sidebar titled "SDsoftware - Mercato" containing icons for user profile, message, search, and help. The main area is divided into two sections: "Project files" on the left and a "Mercato" sidebar on the right.

Project files:

- mercato_project_description.md
- mercato_transkrypt_spotkania_2025-11-09_18-51.md

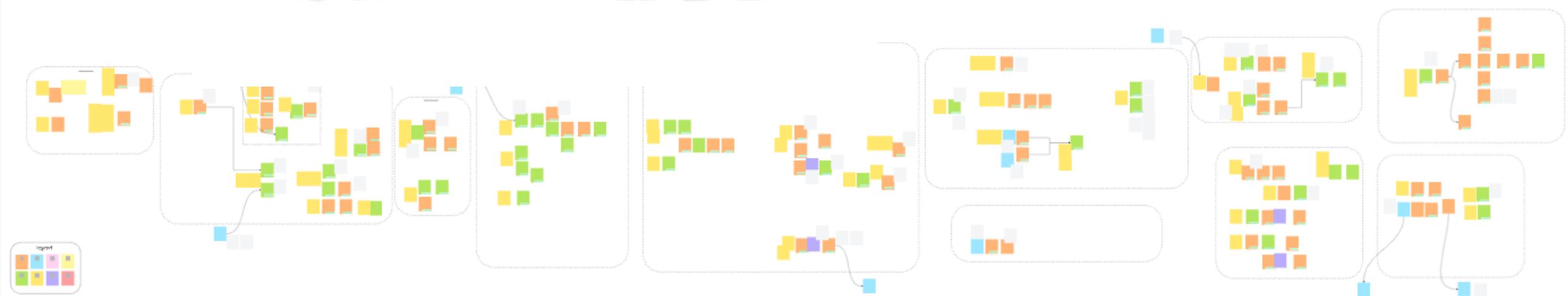
Mercato:

- Nov 20
- Nov 20
- Nov 9
- Nov 9
- Nov 9

The "Mercato" sidebar lists several items, each with a timestamp (Nov 20 or Nov 9) and a truncated description. The descriptions include:

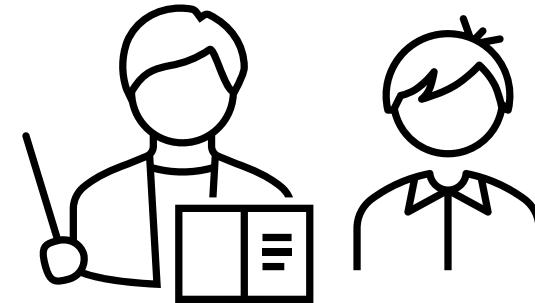
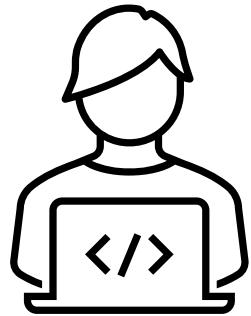
- re - Mercato
- Nov 20
- Nov 20
- acjii
- spark ktory bedzie zawieral tylko informacje bizn...
- mi opis projektu i zapisz sobie w plikach projektu j...

EVENT STORMING

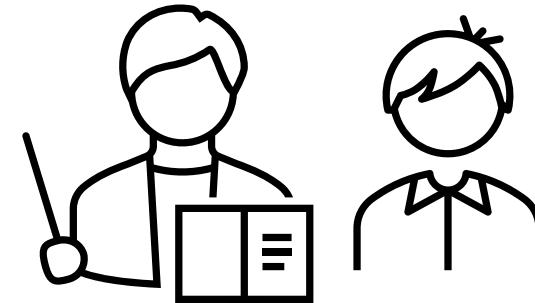
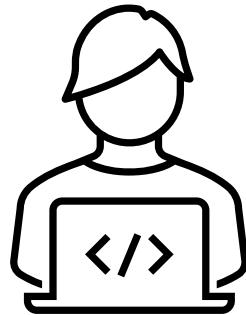


legend

domain event	command	policy	entities or aggregates
views	user roles	process	issues



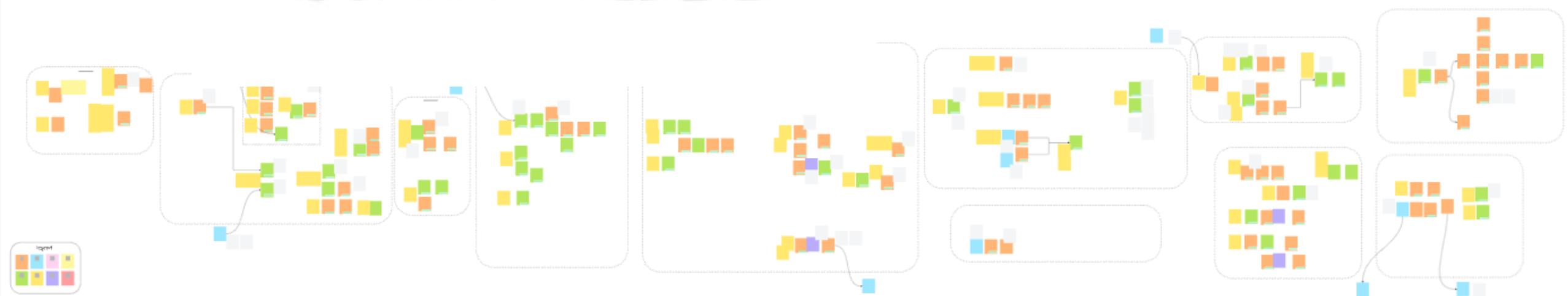
MEETING 3



MEETING 3

EVENT
STORMING

EVENT STORMING



legend



miro

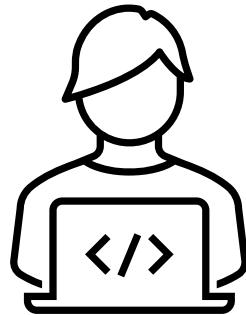


Fireflies

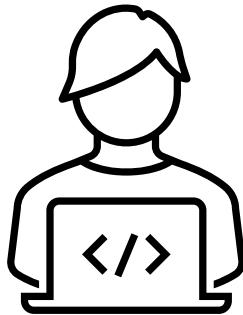


The screenshot shows the ChatGPT application interface. At the top, there's a header bar with the ChatGPT logo and the text "ChatGPT 5.1". On the right side of the header are "Share" and "..." buttons. Below the header, there's a sidebar titled "SDsoftware - Mercato" with a graduation cap icon. The main area displays a "Project files" section containing two files: "mercato_project_description.md" and "mercato_transkrypt_spotkania_2025-11-09_18-51.md", both listed as "File". To the right of the main content area is a sidebar with a dark background and light-colored text, showing a timeline of messages. The messages are dated Nov 20, Nov 20, Nov 9, Nov 9, and Nov 9. The visible text of the messages includes "il tylko informacje bizn...", "bie w plikach projektu j...", and "...".

MEETING 4



MEETING 4



MEETING 4

ARCHITECTURE CHARACTERISTICS

SIMPLICITY ★★★★

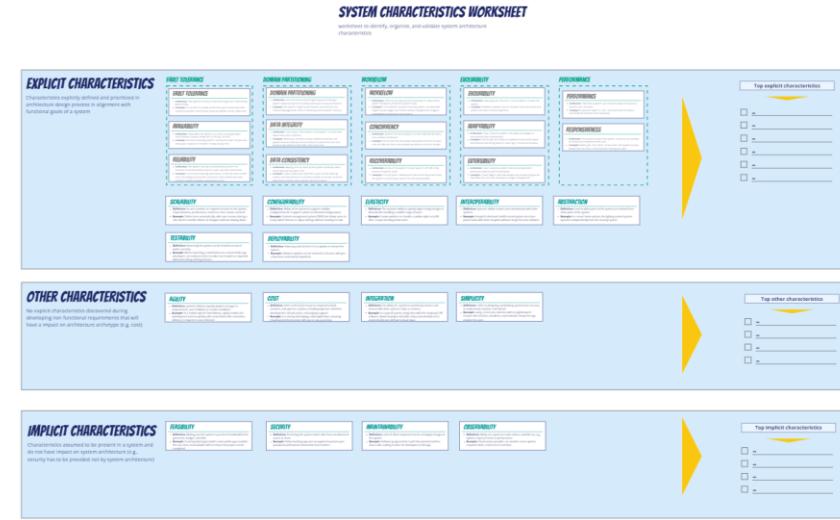
SCALABILITY ★★★★

MAINTAINABILITY ★★★★

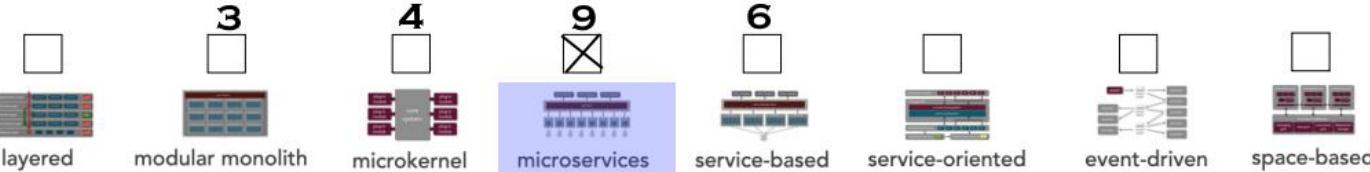
EVOLVABILITY ★★★★

ARCHITECTURE CHARACTERISTICS

SIMPLICITY ★★★★☆ SCALABILITY ★★★★★ MAINTAINABILITY ★★★★★ EVOLVABILITY ★★★★★



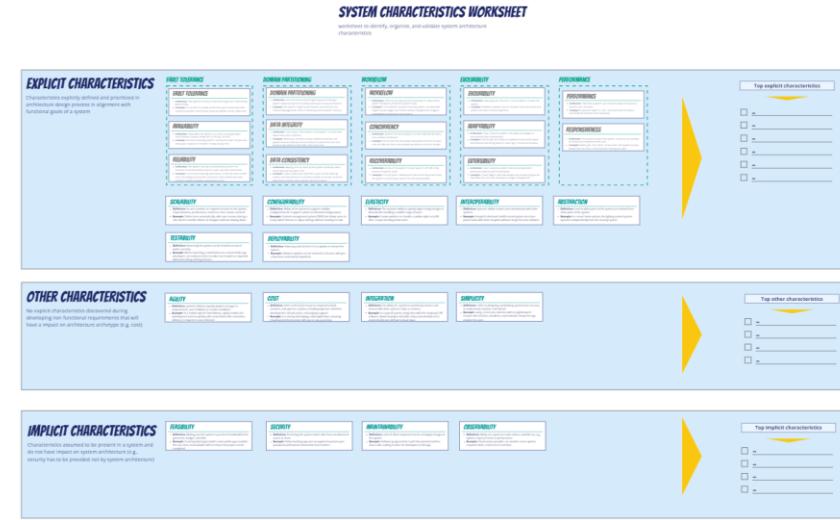
Selected Architecture(s):



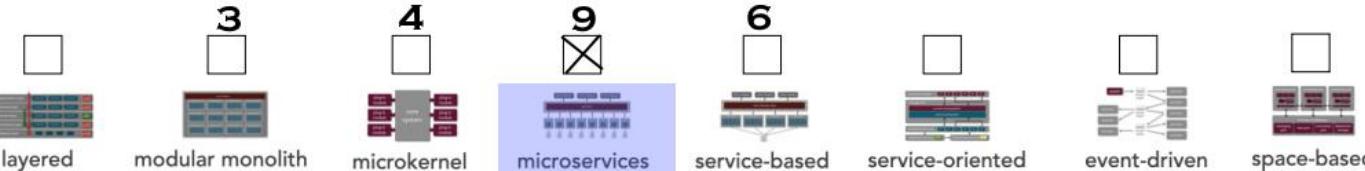
partitioning	technical	domain	domain	domain	domain	technical	technical	technical
cost	\$	\$	\$	\$\$\$\$\$	\$\$	\$\$\$	\$\$\$	\$\$\$
maintainability	★	★★	★★★	★★★★★	★★★★★	★	★★★	★★★
testability	★★	★★	★★★	★★★★★	★★★★★	★	★★	★
deployability	★	★★	★★★	★★★★★	★★★★★	★	★★★	★★★
simplicity	★★★★★	★★★★★	★★★★★	★	★★★	★	★★	★
scalability	★	★	★	★★★★★	★★★	★★★	★★★★★	★★★★★
elasticity	★	★	★	★★★★★	★★	★★★	★★★	★★★★★
responsiveness	★★★	★★★	★★★	★★	★★★	★	★★★★★	★★★★★
fault-tolerance	★	★	★	★★★★★	★★★★★	★★★	★★★★★	★★★
evolvability	★	★	★★★	★★★★★	★★★★★	★	★★★★★	★★★
abstraction	★	★	★★★	★	★	★★★★★	★★★★★	★
interoperability	★	★	★★★	★★★	★★	★★★★★	★★★★★	★★

ARCHITECTURE CHARACTERISTICS

SIMPLICITY ★★★★☆ SCALABILITY ★★★★★ MAINTAINABILITY ★★★★★ EVOLVABILITY ★★★★★



Selected Architecture(s):



partitioning	technical	domain	domain	domain	domain	technical	technical	technical
cost	\$	\$	\$	\$\$\$\$\$	\$\$	\$\$\$	\$\$\$	\$\$\$
maintainability	★	★★	★★★	★★★★★	★★★★★	★	★★★	★★★
testability	★★	★★	★★★	★★★★★	★★★★★	★	★★	★
deployability	★	★★	★★★	★★★★★	★★★★★	★	★★★	★★★
simplicity	★★★★★	★★★★★	★★★★★	★	★★★	★	★★	★
scalability	★	★	★	★★★★★	★★★	★★★	★★★★★	★★★★★
elasticity	★	★	★	★★★★★	★★	★★★	★★★	★★★★★
responsiveness	★★★	★★★	★★★	★★	★★★	★★	★★★★★	★★★★★
fault-tolerance	★	★	★	★★★★★	★★★★★	★★★	★★★★★	★★★★★
evolvability	★	★	★★★	★★★★★	★★★★★	★		
abstraction	★	★	★★★	★	★	★★★★★		
interoperability	★	★	★★★	★★★	★★	★★★★★		



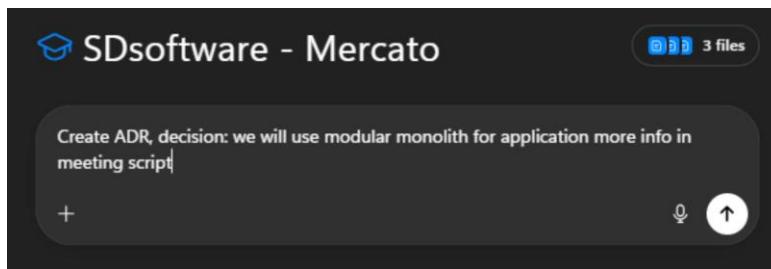
miro

Fireflies



The screenshot shows the ChatGPT application interface. At the top, there's a header bar with the ChatGPT logo and the text "ChatGPT 5.1". On the right side of the header are "Share" and "..." buttons. Below the header, there's a dark sidebar on the left labeled "SDsoftware - Mercato" with icons for user, search, and other functions. The main area contains a "Project files" section with two files listed: "mercato_project_description.md" and "mercato_transkrypt_spotkania_2025-11-09_18-51.md". To the right of the files is a "2 files" button. The right side of the screen features a vertical timeline with several entries: "Nov 20", "Nov 20", "Nov 9", "il tylko informacje bizn...", and "bie w plikach projektu j...". Each entry has a timestamp and a truncated message. At the bottom left, there's a small circular profile picture.

ADR



ChatGPT - SDsoftware - Mercato

ChatGPT 5.1

ADR-001: Application Architecture Style – Modular Monolith

Status
Accepted

Date
2025-11-25

Context
Mercato is a multi-vendor e-commerce marketplace connecting independent online stores within a single platform, with three main areas: Seller Panel, Buyer Portal and Administration Panel. The platform will be developed iteratively (MVP → next releases), deployed in the cloud, and will integrate with external systems in the future (Shopify, WooCommerce, Baselinker, ERP systems, payment gateways, etc.).

Business and technical expectations:
The MVP must be delivered quickly with a limited budget. The system must allow functional expansion and future integrations. The domain must be split into modules such as Users/Auth, Catalog, Orders, Payments, Sellers, Admin and Integrations. Operational and maintenance costs must stay low in the first phase.

Considered architecture styles:
A layered monolith, a modular monolith and full microservices.

Decision
The Mercato backend will be implemented as a **modular monolith**.

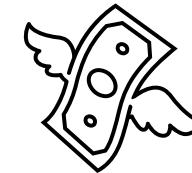
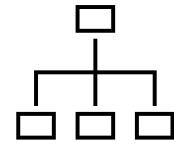
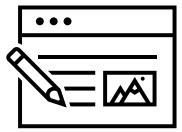
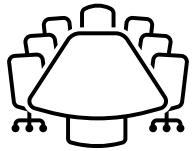
This includes:

A single deployable application.

+ Ask anything

ARCHITECTURE

ARCHITECTURE



CODING



ChatGPT

Scope

Estimation 885MD

SCOPE

ARCHITECTURE

TEAM

SCOPE

PRD.MD

TASKS

README.MD



Scope

ChatGPT - SDsoftware - Mercato

ChatGPT 5.1

spotkania.

Epic 1: Identity & Access Management

Features:

1. Buyer registration and login with email and password.
2. Seller registration and login with email and password.
3. Social login for buyers via Google and Facebook, Apple later. mercato_transkrypt_spotkania_20...
4. Account verification flow, including email confirmation and optional KYC for sellers.
5. Password reset and change password flow.
6. Session management and logout.
7. Role model: buyer, seller, marketplace admin, finance/admin back office.
8. Basic account security settings (2FA ready, login history view in later phase).

Epic 2: Seller Management

Features:

1. Seller onboarding wizard for new stores.
2. Seller profile page with store name, logo, description and contact details.
3. Store verification process with company data, NIP or personal ID for individuals. mercato_transkrypt_spotkania_20...
4. Store profile public view under Mercato domain path (mercato.pl/store-name). mercato_transkrypt_spotkania_20...
5. Seller account settings: bank account, payout preferences, invoicing details.
6. Seller user management in later phase: owner and additional users with roles (offers manager, orders operator, accountant). mercato_transkrypt_spotkania_20...

Ask anything

0

ARCHITECTURE

ARCHITECTURE.MD

TEAM

INSTRUCTION.MD

AGENT.MD

PRD.MD

TASKS

README.MD

ARCHITECTURE.MD

INSTRUCTION.MD

AGENT.MD

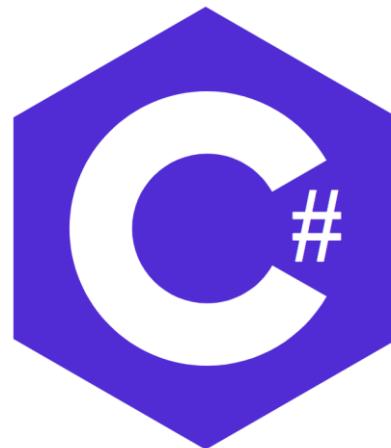
Experiment 1

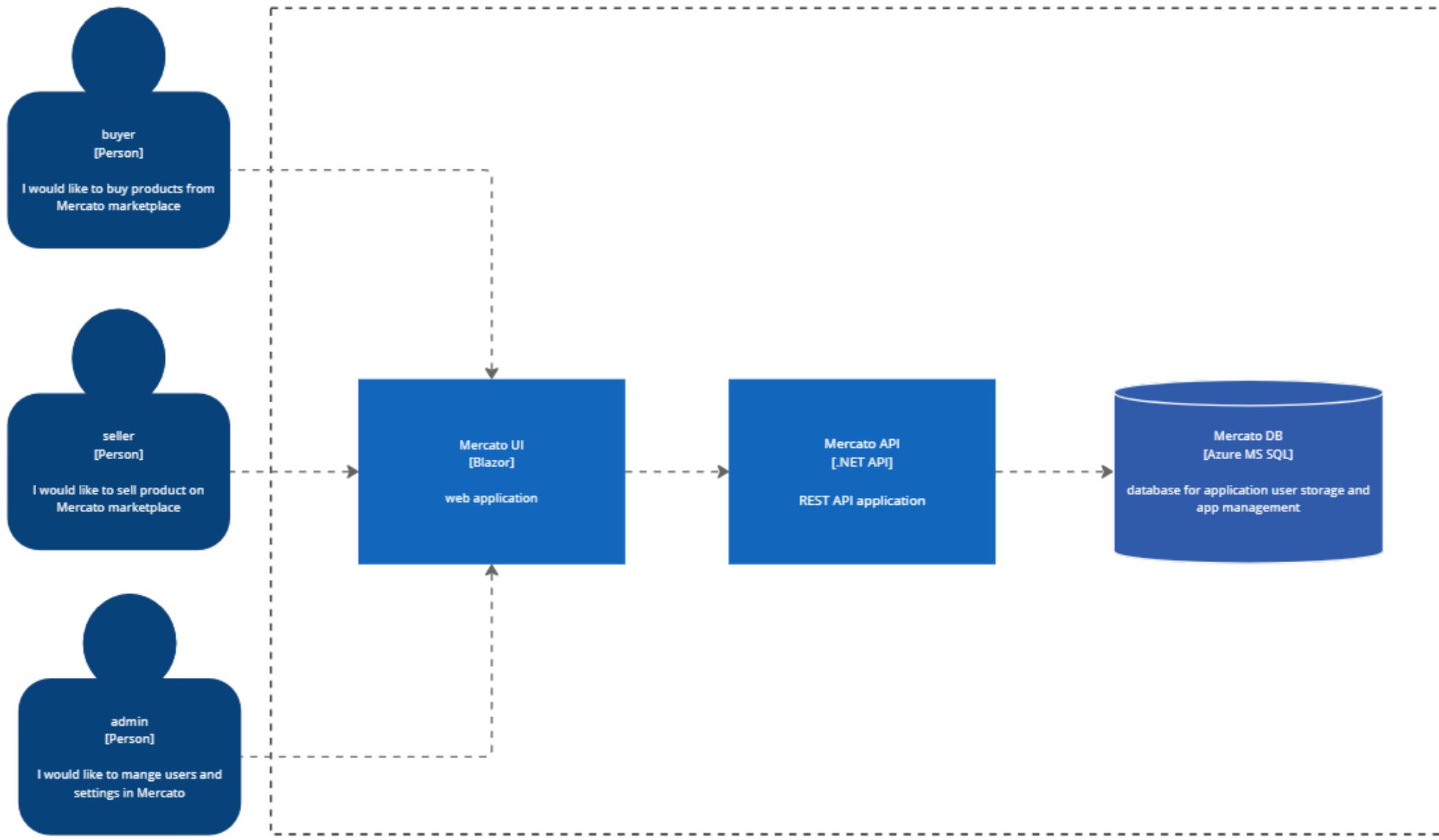
Experiment 1

Modular Monolith

Experiment 1

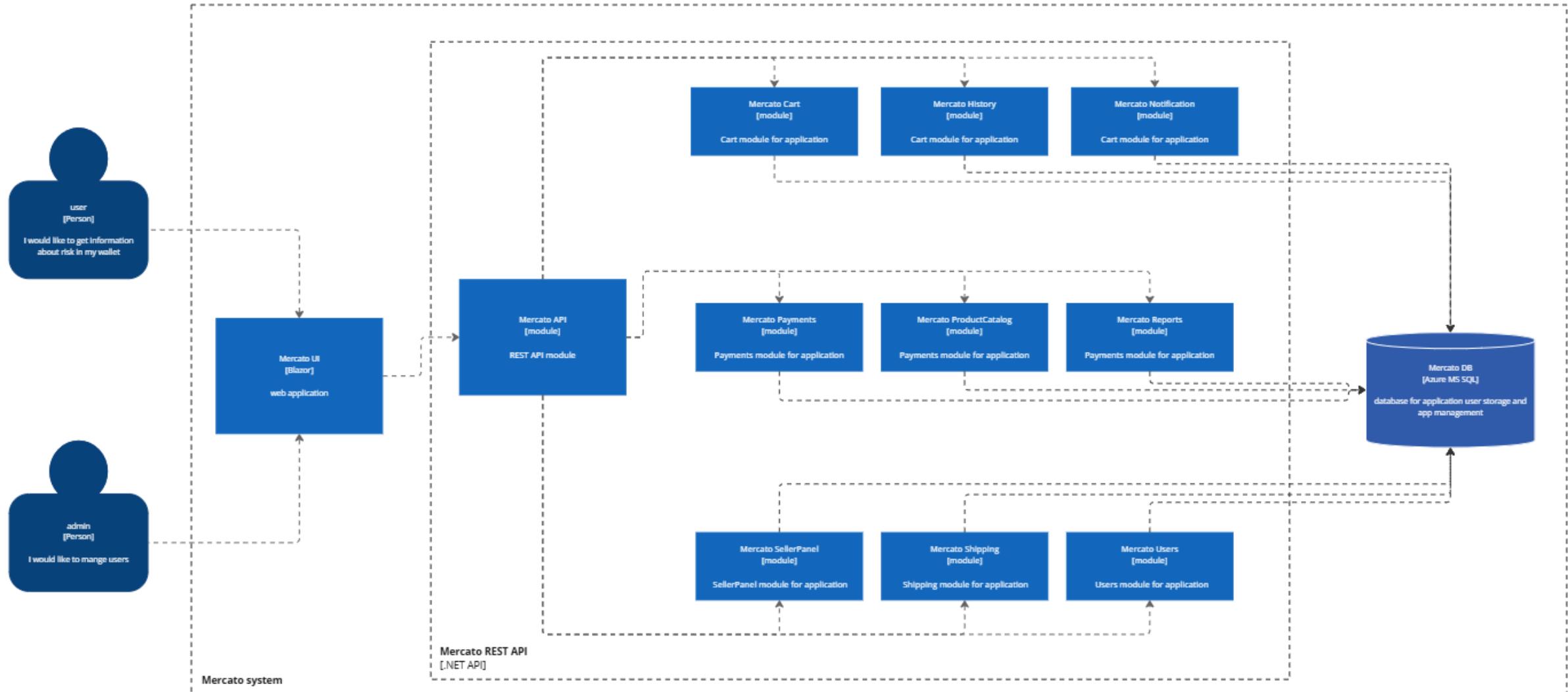
Modular Monolith





Mercato

The component diagram
Last modified: 2025-11-08



Mercato Cart
[module]

Cart module for application

Mercato History
[module]

History module for application

Mercato Notification
[module]

Notification module for application

Mercato Payments
[module]

Payments module for application

Mercato ProductCatalog
[module]

Product catalog module for application

Mercato Reports
[module]

Reports module for application

Mercato SellerPanel
[module]

SellerPanel module for application

Mercato Shipping
[module]

Shipping module for application

Mercato Users
[module]

Users module for application

Solution 'SD.Mercato' (14 of 14 projects)

- ▲ API
 - ▷ SD.Mercato.API
- ▲ AppUI
 - ▷ SD.Mercato.UI
 - ▷ SD.Mercato.UI.Client
- ▲ Modules
 - ▷ SD.Mercato.Administration
 - ▷ SD.Mercato.Cart
 - ▷ SD.Mercato.History
 - ▷ SD.Mercato.Notification
 - ▷ SD.Mercato.Payments
 - ▷ SD.Mercato.ProductCatalog
 - ▷ SD.Mercato.Reports
 - ▷ SD.Mercato.Reviews
 - ▷ SD.Mercato.SellerPanel
 - ▷ SD.Mercato.Shipping
 - ▷ SD.Mercato.Users



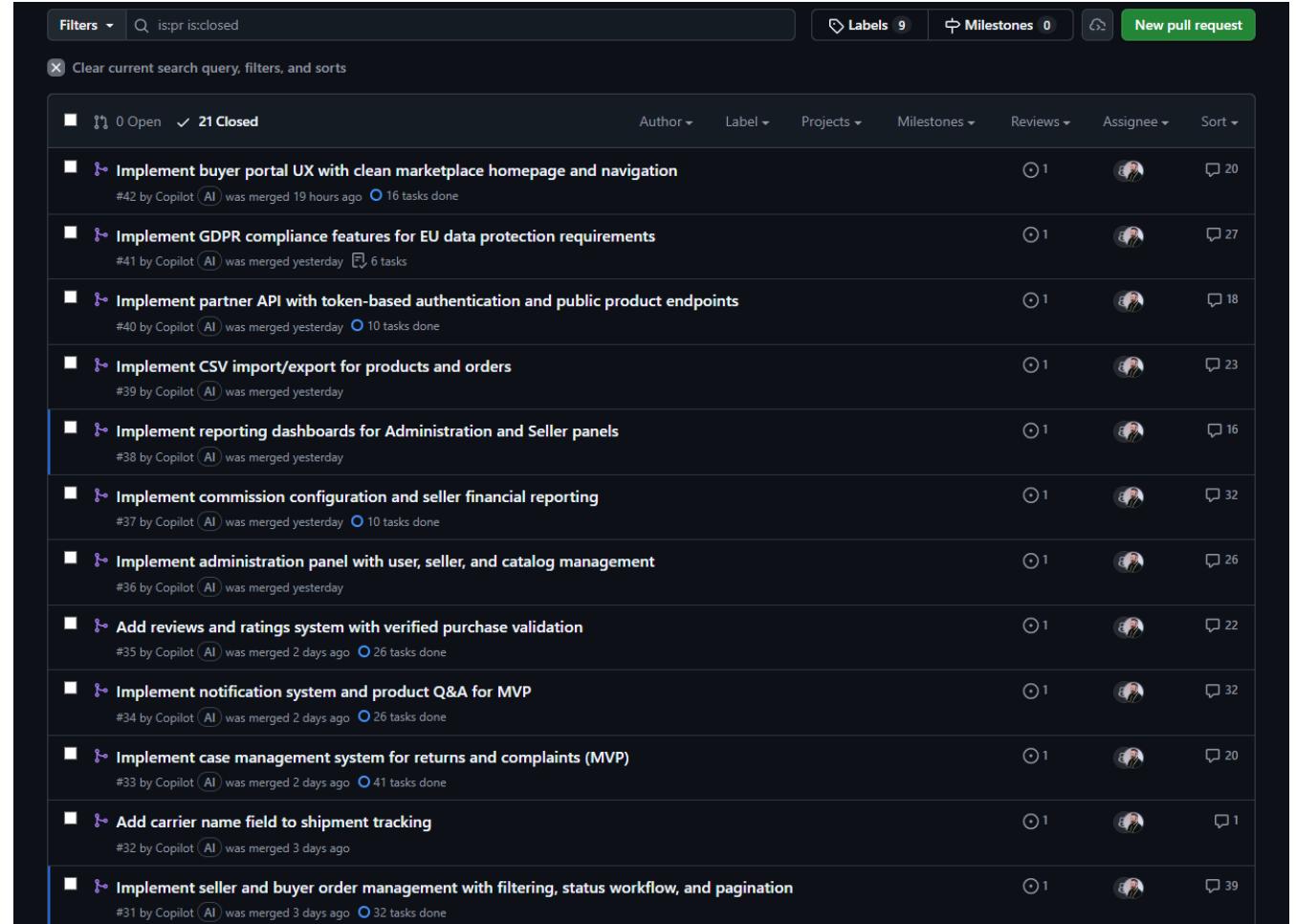
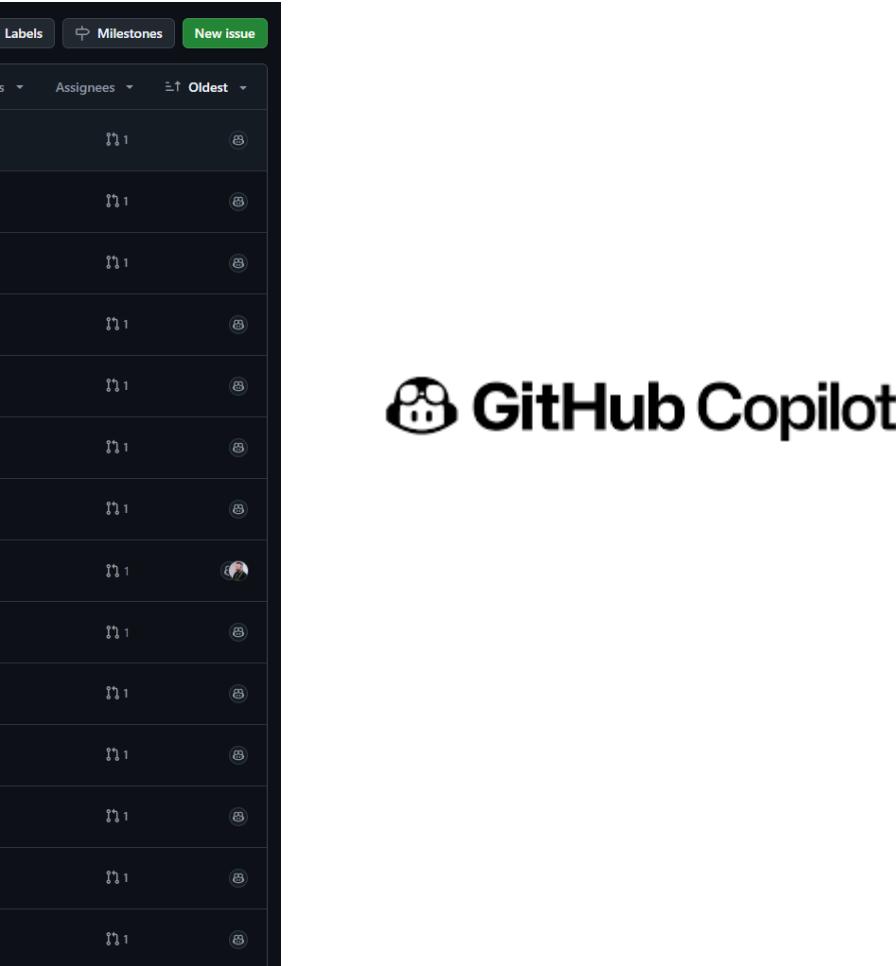
SebastianDabkowski / mercato-app

is:issue state:closed sort:created-asc		Author	Labels	Projects	Milestones	Assignees	Oldest
<input type="checkbox"/>	Open 0	Closed 21					
<input type="checkbox"/>	○ Mercato MVP End-to-End Core Business Scope Definition <small>enhancement</small>	#1 · by SebastianDabkowski was closed 4 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement Seller Onboarding and Store Profile Management <small>enhancement</small>	#3 · by SebastianDabkowski was closed 4 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement core product catalog for Mercato app <small>enhancement</small>	#4 · by SebastianDabkowski was closed 4 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement Search and Filtering in Mercato Buyer Portal <small>enhancement</small>	#5 · by SebastianDabkowski was closed 4 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement multi-seller shopping cart with unified order flow <small>enhancement</small>	#6 · by SebastianDabkowski was closed 4 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement unified checkout flow for carts with multi-seller support <small>enhancement</small>	#7 · by SebastianDabkowski was closed 3 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement escrow-style online payment flow for the marketplace MVP <small>enhancement</small>	#8 · by SebastianDabkowski was closed 3 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement seller and buyer order management views, APIs, backend logic, and UI flows <small>enhancement</small>	#9 · by SebastianDabkowski was closed 3 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement minimal shipment handling for Mercato MVP <small>enhancement</small>	#10 · by SebastianDabkowski was closed 3 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement basic returns and complaints flow (MVP) <small>enhancement</small>	#11 · by SebastianDabkowski was closed 2 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement MVP Notification System & Buyer-Seller Q&A Mechanism <small>enhancement</small>	#12 · by SebastianDabkowski was closed 2 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement Minimal Reviews & Ratings System for Mercato <small>enhancement</small>	#13 · by SebastianDabkowski was closed 2 days ago			↑↓ 1		
<input type="checkbox"/>	○ Implement Administration Panel for Mercato: User, Seller, and Catalog Management <small>enhancement</small>	#14 · by SebastianDabkowski was closed yesterday			↑↓ 1		
<input type="checkbox"/>	○ Implement commission and invoice configuration & reporting for sellers <small>documentation</small>	#15 · by SebastianDabkowski was closed yesterday			↑↓ 1		



is:issue state:closed sort:created-asc				
	Author	Labels	Milestones	New issue
<input type="checkbox"/> Open	0	Closed	21	
<input type="checkbox"/> Mercato MVP End-to-End Core Business Scope Definition enhancement	#1 · by SebastianDabkowski was closed 4 days ago	1	1	
<input type="checkbox"/> Implement Seller Onboarding and Store Profile Management enhancement	#3 · by SebastianDabkowski was closed 4 days ago	1	1	
<input type="checkbox"/> Implement core product catalog for Mercato app enhancement	#4 · by SebastianDabkowski was closed 4 days ago	1	1	
<input type="checkbox"/> Implement Search and Filtering in Mercato Buyer Portal enhancement	#5 · by SebastianDabkowski was closed 4 days ago	1	1	
<input type="checkbox"/> Implement multi-seller shopping cart with unified order flow enhancement	#6 · by SebastianDabkowski was closed 4 days ago	1	1	
<input type="checkbox"/> Implement unified checkout flow for carts with multi-seller support enhancement	#7 · by SebastianDabkowski was closed 3 days ago	1	1	
<input type="checkbox"/> Implement escrow-style online payment flow for the marketplace MVP enhancement	#8 · by SebastianDabkowski was closed 3 days ago	1	1	
<input type="checkbox"/> Implement seller and buyer order management views, APIs, backend logic, and UI flows enhancement	#9 · by SebastianDabkowski was closed 3 days ago	1	1	
<input type="checkbox"/> Implement minimal shipment handling for Mercato MVP enhancement	#10 · by SebastianDabkowski was closed 3 days ago	1	1	
<input type="checkbox"/> Implement basic returns and complaints flow (MVP) enhancement	#11 · by SebastianDabkowski was closed 2 days ago	1	1	
<input type="checkbox"/> Implement MVP Notification System & Buyer-Seller Q&A Mechanism enhancement	#12 · by SebastianDabkowski was closed 2 days ago	1	1	
<input type="checkbox"/> Implement Minimal Reviews & Ratings System for Mercato enhancement	#13 · by SebastianDabkowski was closed 2 days ago	1	1	
<input type="checkbox"/> Implement Administration Panel for Mercato: User, Seller, and Catalog Management enhancement	#14 · by SebastianDabkowski was closed yesterday	1	1	
<input type="checkbox"/> Implement commission and invoice configuration & reporting for sellers documentation	#15 · by SebastianDabkowski was closed yesterday	1	1	





HOW MUCH?

QUALITY?

DOES IT WORK???

HOW MUCH?

Cost coding: **\$14.02**

Effort: **4MD**

> Nov 20, 2025	\$7.57	\$0.08
> Nov 21, 2025	\$1.82	\$0.08
> Nov 22, 2025	\$1.61	\$0.08
> Nov 23, 2025	\$3.02	\$0.08

Quality



Code Metrics Results							
Hierarchy	Maintainability Index	Cyclomatic Complexity	Depth of Inheritance	Class Coupling	Lines of Source code	Lines of Executable code	
> AppUI\SD.Mercato.UI.Client (Debug)	83	2 377	3	204	30 598	8 382	
> API\SD.Mercato.API (Debug)	65	641	2	279	4 885	1 315	
> Modules\SD.Mercato.History (Debug)	88	763	2	149	4 822	1 145	
> Modules\SD.Mercato.ProductCatalog (Debug)	84	532	3	140	3 652	858	
> Modules\SD.Mercato.Users (Debug)	85	430	5	192	3 102	704	
> Modules\SD.Mercato.Payments (Debug)	88	307	2	99	2 507	509	
> Modules\SD.Mercato.Administration (Debug)	87	556	2	121	2 117	500	
> Modules\SD.Mercato.Reports (Debug)	84	265	2	121	1 992	407	
> Modules\SD.Mercato.Reviews (Debug)	83	282	2	93	1 702	480	
> AppUI\SD.Mercato.UI (Debug)	60	33	3	54	1 360	334	
> Modules\SD.Mercato.Cart (Debug)	81	174	2	91	1 228	332	
> Modules\SD.Mercato.SellerPanel (Debug)	82	244	2	81	1 192	239	
> Modules\SD.Mercato.Notification (Debug)	84	94	2	69	949	136	
> Modules\SD.Mercato.Shipping (Debug)	95	52	1	11	187	7	

Source code: **60 293** lines
Executable code: **15 348** lines

Quality



	MI	CC	Depth	Coupling	LOC Src	LOC Exec
AppUI\SD.Mercato.UI.Client	83	2 377	3	204	30 598	8 382
API\SD.Mercato.API	65	641	2	279	4 885	1 315
Modules\SD.Mercato.History	88	763	2	149	4 822	1 145
Modules\SD.Mercato.ProductCatalog	84	532	3	140	3 652	858
Modules\SD.Mercato.Users	85	430	5	192	3 102	704
Modules\SD.Mercato.Payments	88	307	2	99	2 507	509
Modules\SD.Mercato.Administration	87	556	2	121	2 117	500
Modules\SD.Mercato.Reports	84	265	2	121	1 992	407
Modules\SD.Mercato.Reviews	83	282	2	93	1 702	480
AppUI\SD.Mercato.UI	60	33	3	54	1 360	334
Modules\SD.Mercato.Cart	81	174	2	91	1 228	332
Modules\SD.Mercato.SellerPanel	82	244	2	81	1 192	239
Modules\SD.Mercato.Notification	84	94	2	69	949	136
Modules\SD.Mercato.Shipping	95	52	1	11	187	7

Quality



> 15 SebastianDabkowski/mercato-app 0 C 0 H 0 M 87 L ...

VULNERABILITY TYPES

- Log Forging 79
- Exposure of Private Per... 7
- Use of Hardcoded Crede... 1

Log Forging ⚡

SNYK CODE | CWE-117 ⓘ

Exposure of Private Personal Information to an Unauthorized Actor ⚡

SNYK CODE | CWE-359 ⓘ

Use of Hardcoded Credentials ⚡

SNYK CODE | CWE-798 ⓘ

DOES IT WORK???

DOES IT WORK???

NO

DOES IT WORK???

NO

BUT

FIX

 Showing 33 changed files with 1,681 additions and 164 deletions.

- Connection string DB
- Fix DB Migration
- Authentication update
- Fix DB migration again
- Blazor Attribute

Effort: 4h

Mercato - Your Multi-Vendor Mar

https://localhost:7044/catalog?category=06dc734d-d5f4-4c16-b9d5-aba1de543c56

Mercato

Search for products...

Sign In

Register

All Products

New Arrivals

Popular

Discover Amazing Products

Shop from trusted sellers across our marketplace

What are you looking for today?

Search

Shop by Category

Explore our wide range of product categories

Books

Clothing

Electronics

Food & Beverages

Health & Beauty

Home & Garden

**CODING BY
AI agent
is complex**





Experiment 2

1. Prepare user story
2. Prepare architecture

- Modular monolith
- N-Layer
- No Architecture

3. Implement



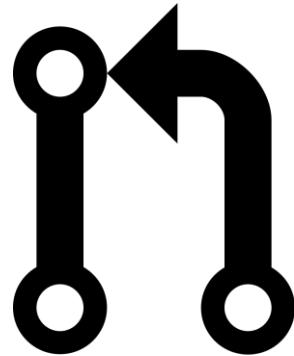
Tasks

 epic01.json		2025-11-27 14:17
 epic02.json		2025-11-27 16:19
 epic03.json		2025-11-27 16:20
 epic04.json		2025-11-28 01:06
 epic05.json		2025-11-27 16:41
 epic06.json		2025-11-27 16:45
 epic07.json		2025-11-27 16:51
 epic08.json		2025-11-27 17:01
 epic09.json		2025-11-27 18:14
 epic10.json		2025-11-27 18:23
 epic11.json		2025-11-27 18:54
 epic12.json		2025-11-27 18:42
 epic13.json		2025-11-27 18:45
 epic14.json		2025-11-27 18:51

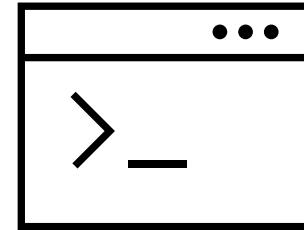


ASSIGNE ISSUES

MERGE?
EXISTS?



PULL
REQUEST



EXISTS?



ISSUE

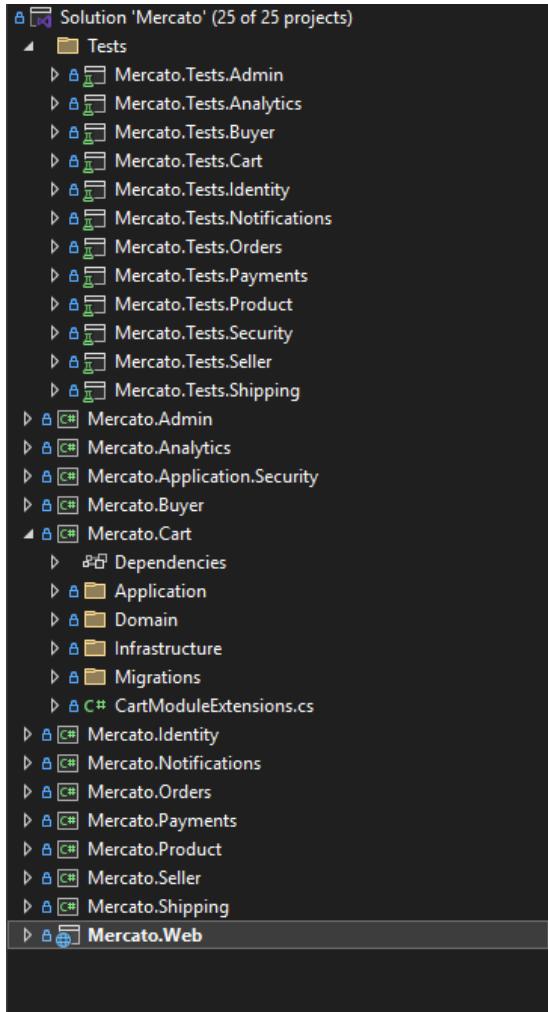


COPILOT

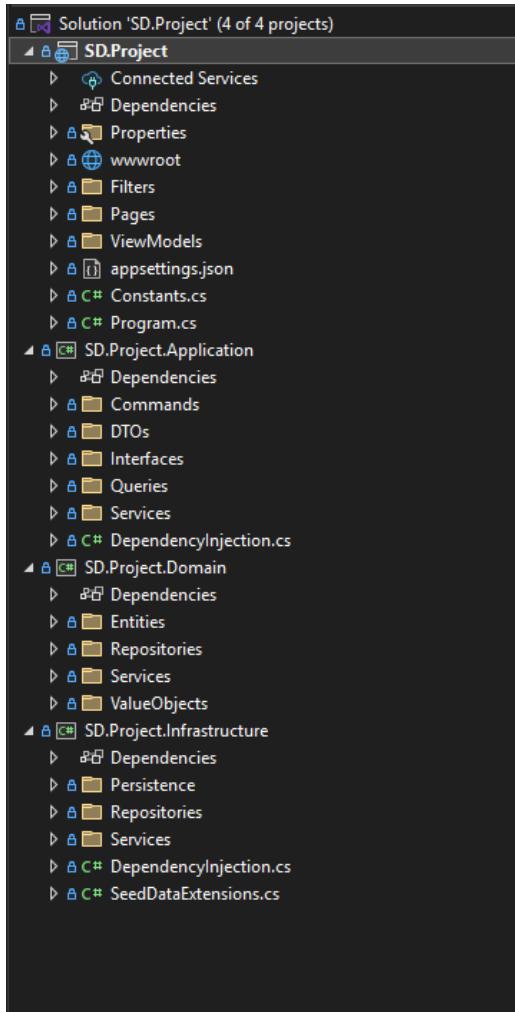
Result

Result

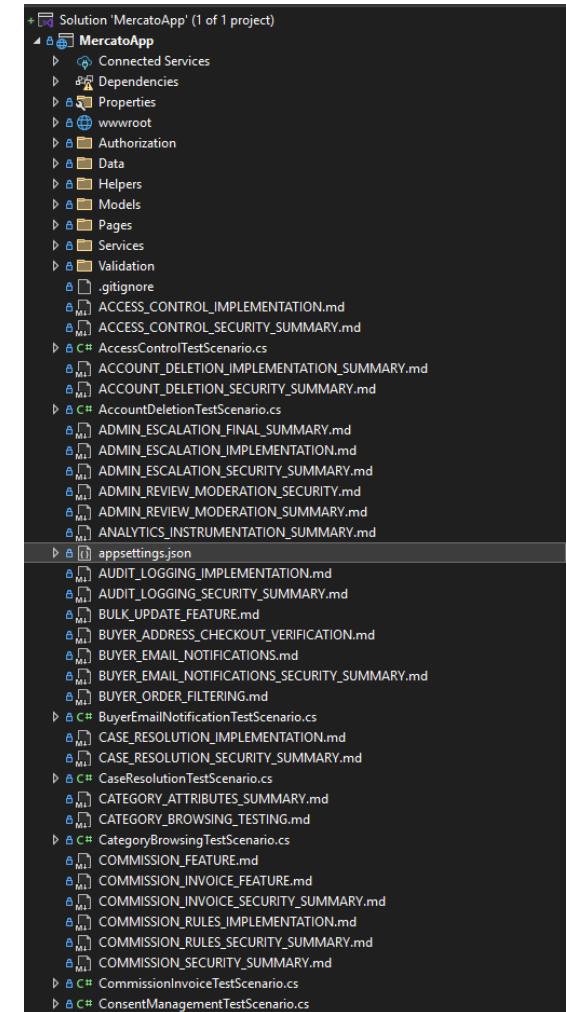
**Modular
25 projects**



**N-Layer
4 projects**



**No Arch.
1 project**

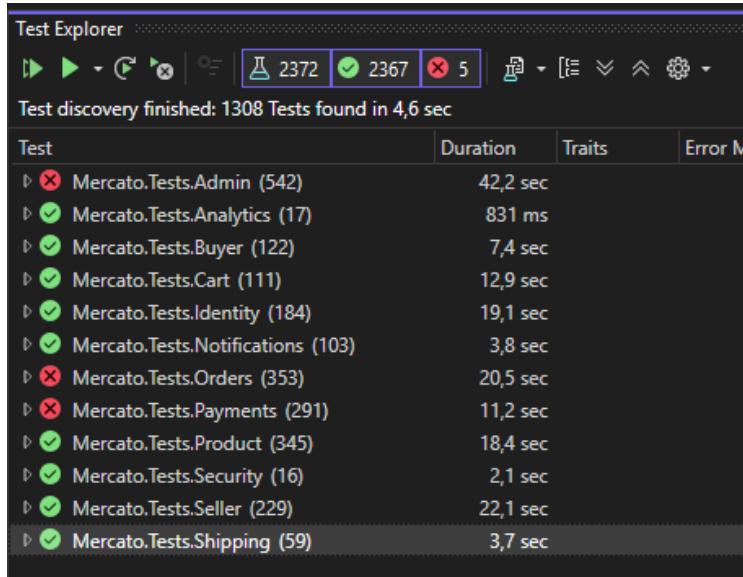


Cost

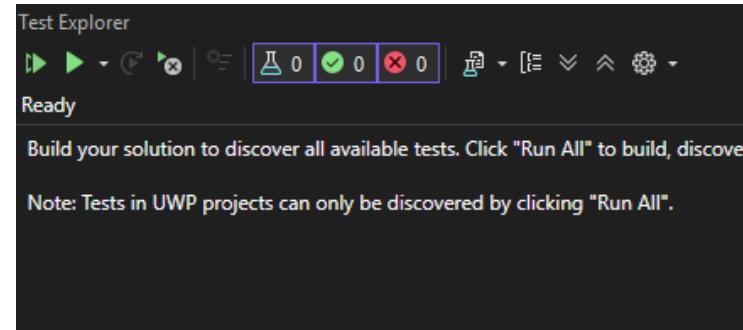
	Modular Monolith	N-Layer	No Architecture
Effort	72h 18min	51h 32 min	43h 30min
Cost PR	\$ 3.93	\$ 3.17	\$ 3.22
Cost Github	\$ 34.70	\$ 24.74	\$ 20.88

Quality

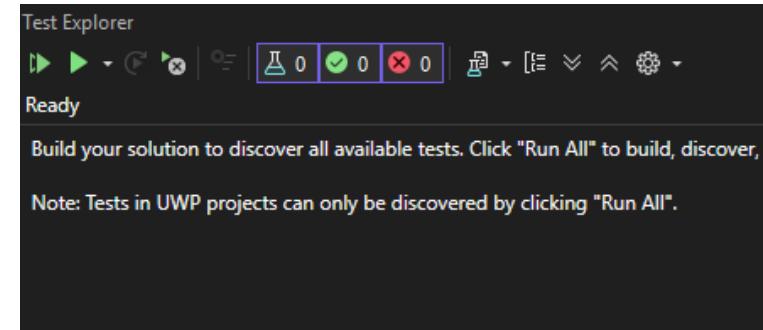
Modular
2372 (5)



N-Layer
0



No Architecture
0





Quality

Modular



N-Layer



No Architecture





Quality

Modular

M DOM-based Cross-site Scripting (XSS) ⚡

SNYK CODE | CWE-79 ⓘ

SCORE
551

```
104     emptySection.style.display = 'none';
105
106     // Render categories
107     if (hasCategories) {
108         categoriesList.innerHTML = data.categories.map(cat =>
```

Unsanitized input from **data from a remote resource flows** into **innerHTML**, where it is used to dynamically construct the HTML page on client side. This may result in a DOM Based Cross-Site Scripting attack (DOMXSS).

src/Mercato.Web/wwwroot/js/[site.js](#) ⓘ

26 steps in 1 file

🎓 Learn about this type of vulnerability and how to fix it ⓘ

✖ Ignore across repository ⓘ

🔍 View details



Quality

N-Layer

M DOM-based Cross-site Scripting (XSS) 2

M Open Redirect 1

M Microsoft.AspNetCore.DataProtection@8.0.0 1
1 transitive issue



Quality

No Architecture

H WebPush@1.0.12

8 transitive issues

Fixable issues 0 Issues with no supported fix 8 Vulnerable dependencies ...

- > **H** Insecure Defaults ↴ `Newtonsoft.Json@10.0.3`
- > **H** Denial of Service (DoS) ↴ `System.Net.Http@4.3.0`
- > **H** Improper Certificate Validation ↴ `System.Net.Http@4.3.0`
- > **H** Information Exposure ↴ `System.Net.Http@4.3.0`
- > **H** Regular Expression Denial of Service (ReDoS) ↴ `System.Text.RegularExpressions@4.3.0`
- > **H** Privilege Escalation ↴ `System.Net.Http@4.3.0`
- > **M** Timing Attack ↴ `Portable.BouncyCastle@1.8.1.3`
- > **M** Authentication Bypass ↴ `System.Net.Http@4.3.0`

Show fewer issues ^

A screenshot of the Snyk web interface. At the top left is the Snyk logo. To its right is a large, bold, black word 'Quality'. Below this, the title 'No Architecture' is displayed in a large, bold, black font. The main content area shows a dependency named 'WebPush@1.0.12'. A red square icon with a white 'H' is next to the name. Below the name, it says '8 transitive issues'. There are three buttons below this: 'Fixable issues 0', 'Issues with no supported fix 8' (which is highlighted with a blue border), and 'Vulnerable dependencies ...'. A horizontal line separates this from a list of security issues. The list starts with 'Insecure Defaults' (severity H), followed by 'Denial of Service (DoS)', 'Improper Certificate Validation', 'Information Exposure', 'Regular Expression Denial of Service (ReDoS)', 'Privilege Escalation', 'Timing Attack' (severity M), and 'Authentication Bypass' (severity M). Each item in the list includes a red square icon with a white letter (H or M) and the affected package name and version. At the bottom of the list is a link 'Show fewer issues ^'.

Quality



Quality

Project Name: SD (Temporary) v1.0.0.0
Analysis Date: Today 19:45:21 most recent
Analyzed by NDepend v2026.1.1

Choose Baseline same 1d 2d 3d 4d 5d 7d 14d 30d 60d 90d any define none

Lines of Code
44 689 = no diff
14 413 (NotMyCode) = no diff
Estimated Dev Effort 1 837d = no diff

Types
1 706 = no diff
4 Assemblies = no diff
29 Namespaces = no diff
6 103 Methods = no diff
3 118 Fields = no diff
905 Source Files = no diff
109 943 Line Feed = no diff
1 690 Third-Party Elements = no diff

Comment
29.91% = no diff
19 071 Lines of Comment = no diff

Baseline: Same Project v1.0.0.0
Analysis Date: Today 19:45:21 most recent
Analyzed by NDepend v2026.1.1

Debt
1.51% = no diff
Rating **A**
Debt 27d = no diff
The technical-debt is incomplete because no coverage data specified.
Explore Debt ▾

Coverage
N/A because no coverage data specified
Import Code Coverage Data

Method Complexity
39 Max = no diff
1.24 Average = no diff

Quality Gates
Fail 1
Warn 0
Pass 11

Rules
Critical 3
Violated 24
Ok 145

Issues
All 623
Blocker 0
Critical 0
High 11
Medium 307
Low 305
Suppressed 0
Don't group issues ▾

Size
Tue Dec 2 00:00 Tue Dec 2 06:00 Tue Dec 2 12:00 Tue Dec 2 18:00 Wed Dec 3 00:00 Wed Dec 3 06:00 Wed Dec 3 12:00 Wed Dec 3 18:00
v1.0
Metric Tue 02 Dec 2025 19:45:21 (v1.0)
Lines of Code 44 689 Loc
Lines of Code Covered N/A
Lines of Code (NotMyCode) 14 413 Loc
Lines of Comments 19 071 Lines

Quality

Project Name: SD (Temporary) v1.0.0.0
Analysis Date: Today 19:45:21 most recent
Analyzed by NDepend v2026.1.1

Baseline: Same Project v1.0.0.0
Analysis Date: Today 19:45:21 most recent
Analyzed by NDepend v2026.1.1

Choose Baseline same 1d 2d 3d 4d 5d 7d 14d 30d 60d 90d any define none

Lines of Code
44 689 = no diff
14 413 (NotMyCode) = no diff
Estimated Dev Effort 1 837d = no diff

Debt
1.51% = no diff
Rating **A**
Debt 27d = no diff

The technical-debt is incomplete because no coverage data specified.

Explore Debt ▾

Types
1 706 = no diff
4 Assemblies = no diff
29 Namespaces = no diff
6 103 Methods = no diff
3 118 Fields = no diff
905 Source Files = no diff
109 943 Line Feed = no diff
1 690 Third-Party Elements = no diff

Comment
29.91% = no diff
19 071 Lines of Comment = no diff

Coverage
N/A because no coverage data specified
Import Code Coverage Data

Method Complexity
39 Max = no diff
1.24 Average = no diff

Issues
All 623
Blocker 0
Critical 0
High 11
Medium 307
Low 305
Suppressed 0

Don't group issues ▾

Size

Metric Tue 02 Dec 19:45:21 (v1.0)

Metric	Value
# Lines of Code	44 689 Loc
# Lines of Code Covered	N/A
# Lines of Code (NotMyCode)	14 413 Loc
# Lines of Comments	19 071 Lines

Quality

	Modular Monolith	N-Layer	No Architecture
Line Of Code	56 K	44,7 K	28 K
Effort	1 770d	1 837d	995d
Debt	1,53% (A) 27d	1,51% (A) 27d	0,9% (A) 9d
Issues – Critical	0	0	0
Issues - High	39	11	25
Issues - All	745	623	399
Complexity (avg)	1,32	1,24	1,46
Complexity (max)	24	39	56

Quality

	Modular Monolith	N-Layer	No Arch.	Brown Software	Green Software
Line Of Code	56 K	44,7 K	28 K	64,8 K	107 K
Effort	1 770d	1 837d	995d	1 835d	2 328d
Debt	1,53% (A) 27d	1,51% (A) 27d	0,9% (A) 9d	4,96% (A) 90d	1,61 (A) 37d
Issues – Critical	0	0	0	18	0
Issues - High	39	11	25	692	365
Issues - All	745	623	399	3 533	2 112
Complexity (avg)	1,32	1,24	1,46	2.63	1.15
Complexity (max)	24	39	56	233	15

Quality

	Modular Monolith	N-Layer	No Arch.	Brown Software	Green Software
Line Of Code	56 K	44,7 K	28 K	64,8 K	107 K
Effort	1 770d	1 837d	995d	1 835d	2 328d
Debt	1,53% (A) 27d	1,51% (A) 27d	0,9% (A) 9d	4,96% (A) 90d	1,61 (A) 37d
Issues – Critical	0	0	0	18	0
Issues - High	39	11	25	692	365
Issues - All	745	623	399	3 533	2 112
Complexity (avg)	1,32	1,24	1,46	2.63	1.15
Complexity (max)	24	39	56	233	15

Quality

	Modular Monolith	N-Layer	No Arch.	Brown Software	Green Software
Line Of Code	56 K	44,7 K	28 K	64,8 K	107 K
Effort	1 770d	1 837d	995d	1 835d	2 328d
Debt	1,53% (A) 27d	1,51% (A) 27d	0,9% (A) 9d	4,96% (A) 90d	1,61 (A) 37d
Issues – Critical	0	0	0	18	0
Issues - High	39	11	25	692	365
Issues - All	745	623	399	3 533	2 112
Complexity (avg)	1,32	1,24	1,46	2,63	1,15
Complexity (max)	24	39	56	233	15
Issues per 1k LOC	13,3	13,9	14,6	54,5	19
Complex per 1M LOC	23,5	27,7	52,14	40,58	10,7

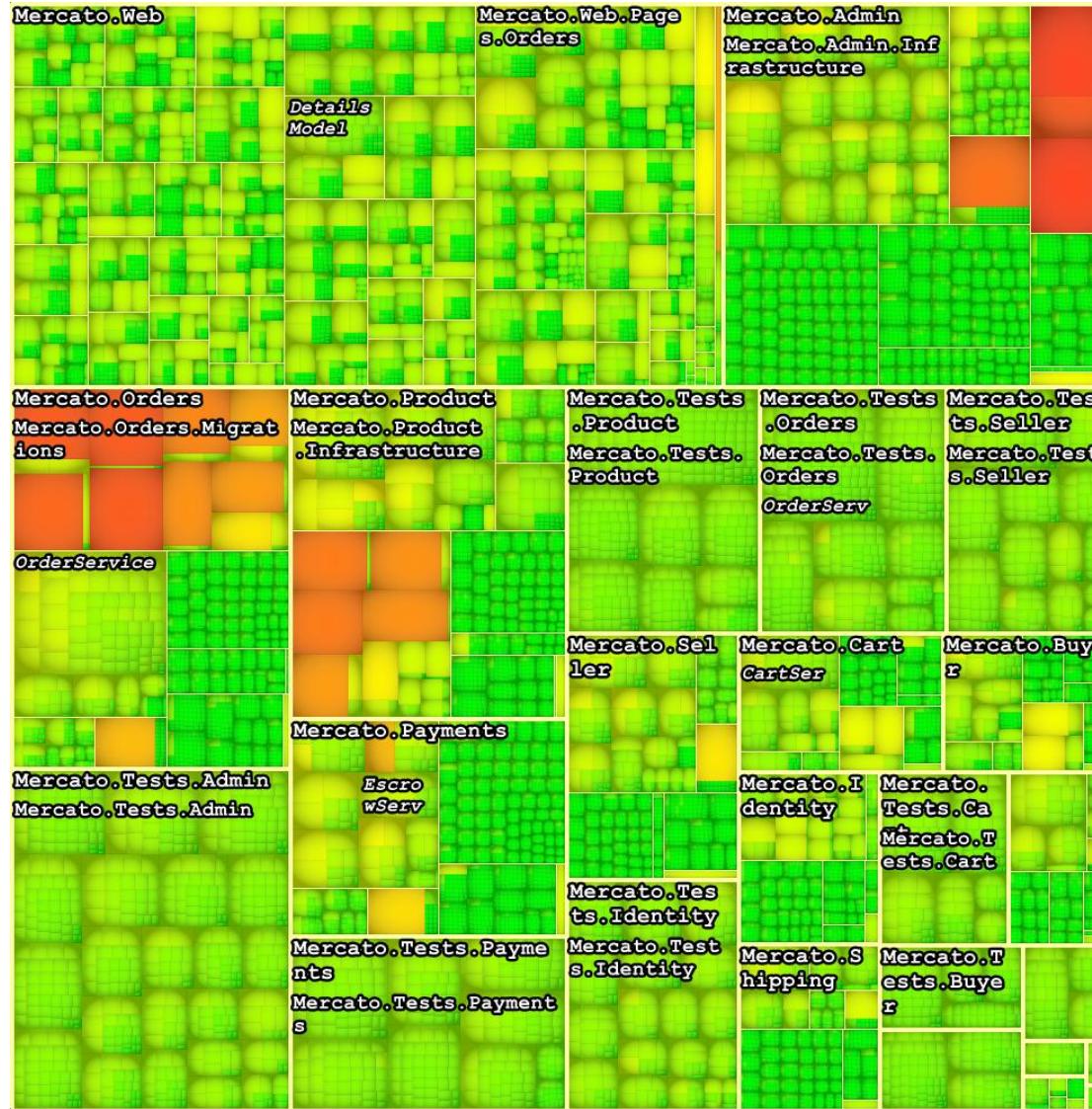
Quality

	Modular Monolith	N-Layer	No Arch.	Brown Software	Green Software
Line Of Code	56 K	44,7 K	28 K	64,8 K	107 K
Effort	1 770d	1 837d	995d	1 835d	2 328d
Debt	1,53% (A) 27d	1,51% (A) 27d	0,9% (A) 9d	4,96% (A) 90d	1,61 (A) 37d
Issues – Critical	0	0	0	18	0
Issues - High	39	11	25	692	365
Issues - All	745	623	399	3 533	2 112
Complexity (avg)	1,32	1,24	1,46	2.63	1.15
Complexity (max)	24	39	56	233	15
Issues per 1k LOC	13,3	13,9	14,6	54,5	19
Complex per 1M LOC	23,5	27,7	52,14	40,58	10,7

Maintainability index

Quality

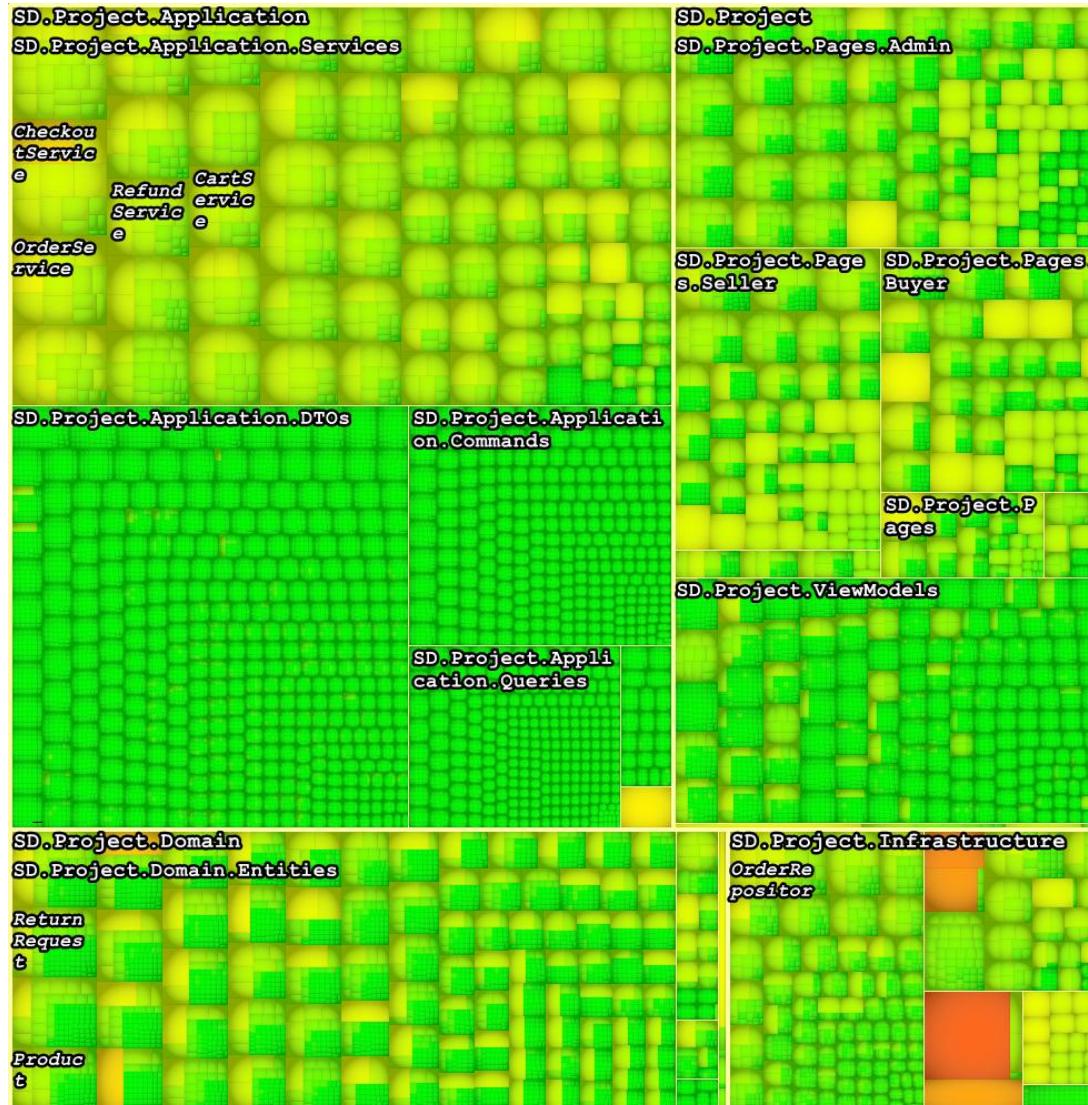
Modular Monolith



Maintainability index

Quality

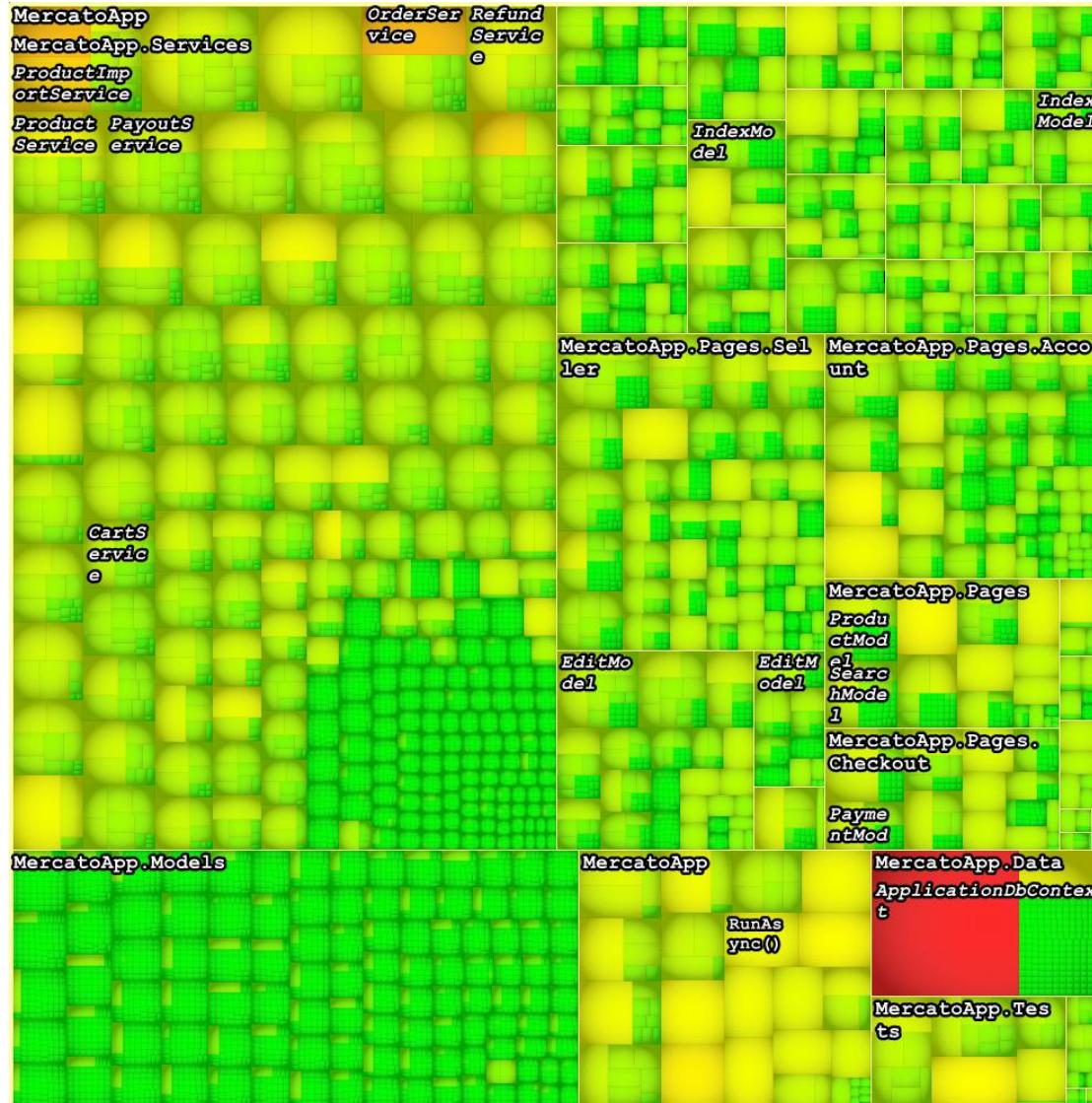
N-Layer



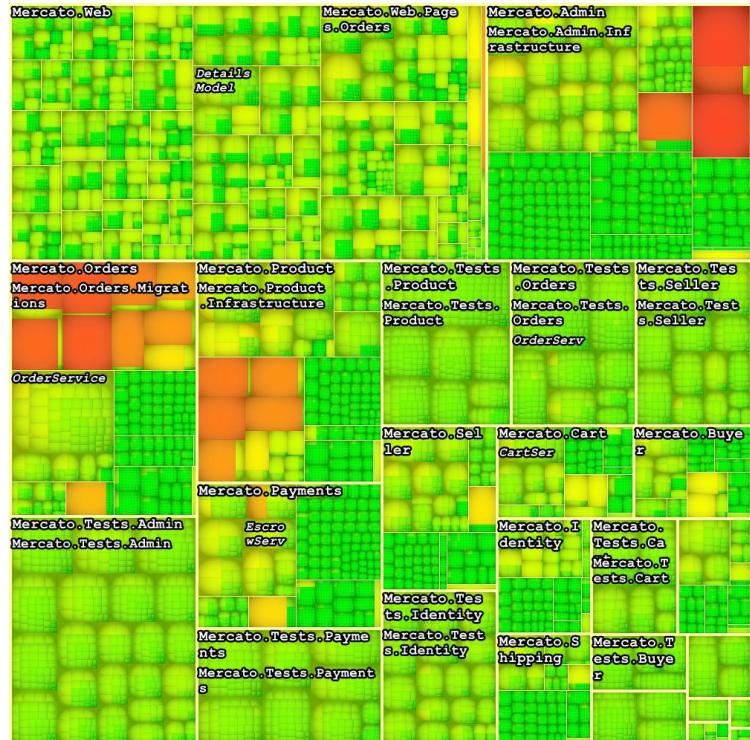
Maintainability index

Quality

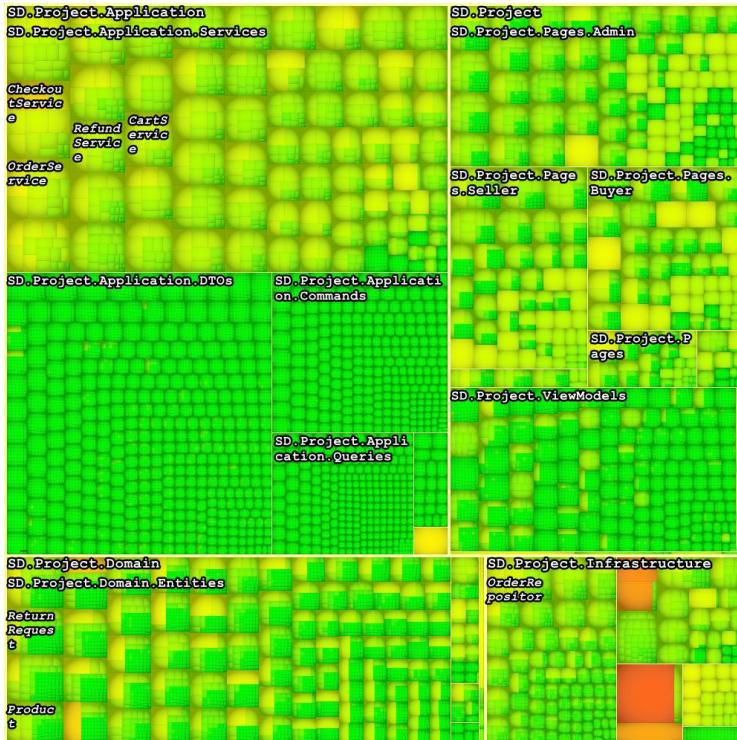
No Architecture



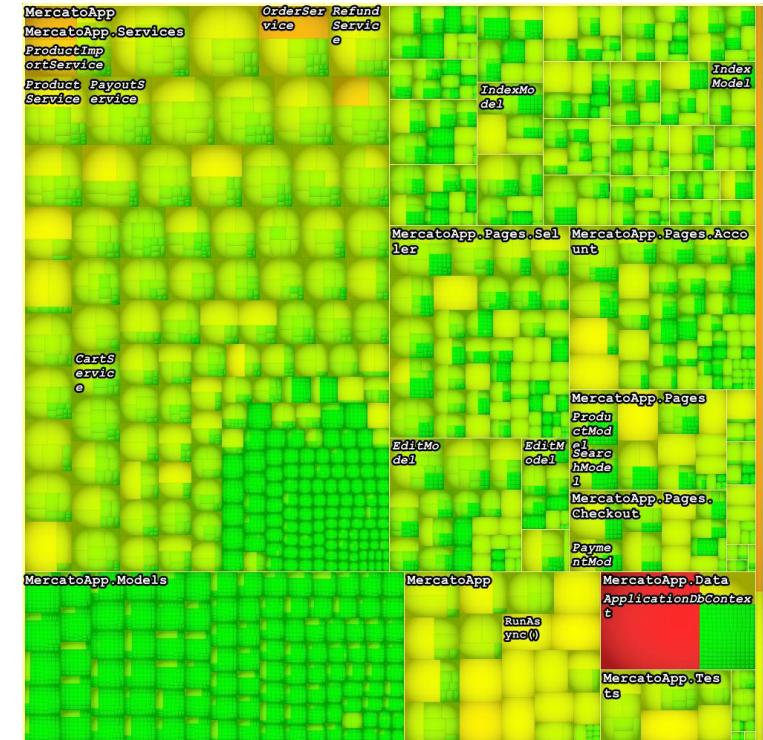
Quality



Modular
Monolith



N-Layer



No Architecture

DOES IT WORK???

DOES IT WORK???

YES

Modular

The screenshot shows the Mercato search results page at <https://localhost:7001/Product/Search?query=test>. The page has a header with the Mercato logo and navigation links for Home, Buyer, Seller, Product, Cart, Orders, and Admin. A search bar with placeholder text "Search products..." and a "Search" button is present. Below the search bar is a "Filters" section with dropdown menus for Category (All Categories), Price Range (Min, Max), and Availability (All). A blue "Apply Filters" button is visible. To the right of the filters is a "Categories" link. The main content area is titled "Search Results" and displays a message: "Results for: 'test'" followed by "No products found". It includes a "Suggestions:" list with four items: "Check for typos or try different keywords", "Use more general terms", "Adjust or clear the filters", and "Browse our product categories". At the bottom left is a copyright notice: "© 2025 - Mercato".

The screenshot shows the Mercato Admin Portal at <https://localhost:7001/Admin>. The header includes the Mercato logo and navigation links for Home, Buyer, Seller, Product, Cart, Orders, Admin, and a user account. A search bar and a "Search" button are also present. The main content area is titled "Admin Portal" and features a "Admin Dashboard" section labeled "Platform administration tools". Below this are several management modules arranged in a grid:

- User Management**: View and manage user accounts and roles. Includes a "Manage Users" button.
- Seller Approvals**: Review and approve seller applications. Includes a "Manage Sellers" button.
- Security Dashboard**: Monitor authentication events and suspicious activity. Includes a "View Security" button.
- Audit Logs**: View admin actions including status changes, moderation decisions, and settings updates. Includes a "View Audit Logs" button.
- Category Management**: Manage the global product category tree for consistent product organization. Includes a "Manage Categories" button.
- Settlements**: View monthly seller settlements and export reports for accounting. Includes a "View Settlements" button.
- Order Management**: View all orders and shipping status history for support purposes. Includes a "View Orders" button.
- Returns & Disputes**: View and manage return requests and complaint cases. Escalate and resolve disputes. Includes a "Manage Cases" button.
- Review Moderation**: Moderate product reviews. Approve, reject or flag inappropriate content. Includes a "Moderate Reviews" button.
- Commission Rules**: Configure commission rates and platform fees for marketplace transactions. Includes a "Manage Commissions" button.
- Platform Settings**: Configure platform-wide settings. Includes a "Coming Soon" button.
- Performance Dashboard**: View marketplace KPIs: GMV, orders, sellers, products, and users. Includes a "View Dashboard" button.
- User Analytics**: View aggregated registration and activity metrics for user growth insights.
- Legal Content**: Manage legal documents: Terms of Service, Privacy Policy, Cookie Policy, and Seller Agreement.
- Data Processing Registry**: GDPR Article 30 compliance. Maintain a registry of personal data processing activities.

Modular

https://localhost:7001/Admin/SecurityDashboard

Mercato Home Buyer Seller Product Cart Orders Admin Search products... Search Hello, admin@mercato.local Log out

Security Dashboard

Monitor authentication events and detect suspicious activity patterns.

Time Period: Last 24 Hours | Event Type: All Types | User Role: All Roles | Status: All | Apply Filters

Successful Logins: 1 | **Failed Logins:** 8 | **Account Lockouts:** 0 | **Password Resets:** 0

Suspicious Activity Detected (1)

Severity	Type	Description	Count	Identifier	Datetime
Low	BruteForce	Multiple failed login attempts (8) from the same IP address	8	7fjny1Bm3/4V3axkg5RL8qtclbVIPN8x2uK/bTy20oaRw	2025-12-02 12:20:08

Recent Authentication Events

Time	Type	Email	Role	Status	Failure Reason
2025-12-02 12:19:30	Login	admin@mercato.local	Admin	Success	-
2025-12-02 11:04:45	Login	admin@mercato.local	Buyer	Failed	This login page is for buyers only. Please use the appropriate login for your account type.
2025-12-02 11:03:44	Login	admin@mercato.local	Buyer	Failed	This login page is for buyers only. Please use the appropriate login for your account type.
2025-12-02 11:03:32	Login	admin@mercato.local	Buyer	Failed	This login page is for buyers only. Please use the appropriate login for your account type.
2025-12-02 11:03:23	Login	admin@mercato.local	Buyer	Failed	This login page is for buyers only. Please use the appropriate login for your account type.
2025-12-02 10:41:40	Login	admin@mercato.local	Buyer	Failed	This login page is for buyers only. Please use the appropriate login for your account type.
2025-12-02 10:40:37	Login	admin@mercato.local	Buyer	Failed	This login page is for buyers only. Please use the appropriate login for your account type.

https://localhost:7001/Admin/Users/Details/70f2e9c1-a9a6-4dcd-96c9-df5bcff8fd40

Mercato Home Buyer Seller Product Cart Orders Admin Search products... Search Hello, admin@mercato.local Log out

User Details

View detailed information about a user account including verification status, login activity, and security settings.

Account Information

User ID	70f2e9c1-a9a6-4dcd-96c9-df5bcff8fd40
Email	s.dabkowski@hotmail.com
Role(s)	Buyer
Status	Pending Verification
Last Login	Never

Recent Login Activity

No recent login activity recorded.

Block/Reactivate History

No block/reactivate history recorded.

Verification Status

Email Confirmed	No
Phone Confirmed	No
Two-Factor Enabled	No

Security Flags

Lockout Enabled	Yes
Lockout End	Not locked
Failed Access Attempts	0

[Change Role](#) [Block User](#) [Back to Users](#)

© 2025 - Mercato

Modular

Shopping Cart

Magazyn 1				
	Koszulka czerwona czerwona	9,90 zł each	Qty: 2	Update Remove
Subtotal: 19,80 zł			+ Shipping: 5,99 zł 25,79 zł	

Congratulations! 🎉

Your seller account has been successfully created and is now pending verification.

What's Next?

Verification in Progress

Our team will review your information. This typically takes 1-3 business days. You'll receive an email notification once your account is verified.

While you wait, you can:

Review your seller dashboard

Submit KYC documents for faster verification

Prepare your product listings

[Go to Dashboard](#)[Submit KYC Documents](#)

Order Summary

Items (2): 19,80 zł
Shipping: 5,99 zł

Total: 25,79 zł

[Apply](#)

[Proceed to Checkout](#)[Continue Shopping](#)

N-Layer



Email Verified!

Email verified successfully! Please complete KYC verification to access the seller panel.

Next step: As a seller, you'll need to complete KYC verification to access the seller panel and start listing products.

[Sign In to Your Account](#)

Seller Panel

Welcome to your seller panel, Sebastian!

Complete Your Seller Onboarding

You need to complete the seller onboarding wizard before you can start selling on the platform.

[Start Onboarding](#)

Sales Dashboard

View your sales performance and trends over time.

[View Analytics](#)

My Products

Manage your product listings.

[Manage Products](#)

Orders

View and manage customer orders.

[View Orders](#)

Order & Revenue Report

Generate order and revenue reports with CSV export for sales reconciliation.

[View Report](#)

Payout History

View your payout history and details.

[View Payouts](#)

Store Settings

Configure your store profile.

[Store Settings](#)

Payout Settings

Configure bank account and payout preferences.

[Payout Settings](#)

N-Layer



Application Submitted!

Thank you for completing your seller onboarding for koszulkowo.

What happens next?

Our team will review your application. This usually takes 1-3 business days. We'll notify you by email once your account is verified.

Submitted on grudnia 5, 2025 at 9:25 AM

[Go to Dashboard](#)



Thank You for Your Order!

Your order **MKT-20251205-32B81** has been placed successfully.

We've sent a confirmation email with your order details.

Order Items

Product	Price	Qty	Total
Green T-Shirt Sold by Magazyn2 <small>↳ Standard Shipping (5-7 business days)</small>	USD 9,49	2	USD 18,98

Delivery Address

Sebastian Dabkowski
Jurowiecka 13, Białystok, 15-101, Poland

Payment Method

PayPal

[Continue Shopping](#)

[View My Orders →](#)

Order Summary

Order Number
MKT-20251205-32B81

Order Date
grudnia 05, 2025 at 9:59 AM

Status
PaymentConfirmed

Estimated Delivery
↳ gru 10 - gru 12, 2025

Items USD 18,98
Shipping USD 5,99

Total Paid **USD 24,97**

N-Layer

[Dashboard](#) / [Orders](#) / MKT-20251205-32B81

Order MKT-20251205-32B81

Processing

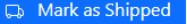
Order Status			
 Confirmed	 Processing	 Shipped	 Delivered

 Order status updated to Processing. X

Fulfilment Actions

Mark as Shipped
Enter shipping details and mark this order as shipped.

Carrier (optional) Tracking Number (optional) Tracking URL (optional)

 Mark as Shipped

Cancel Order
Cancel this order. This action cannot be undone and will trigger a refund.

 Cancel Order

Order Summary	
Sub-Order ID	3621ae3d-725a-4ff8-8327-4e1fcfa73d9e1
Parent Order ID	0074c011-f6b4-40af-a552-df5595485b4f
Order Number	MKT-20251205-32B81
Order Date	grudnia 05, 2025 at 9:59 AM
Status	Processing
Payment Status	Paid
Items Subtotal	USD 18,98
Shipping	USD 5,99
Total	USD 24,97

Order Items (1)			
Product	Unit Price	Quantity	Total
Green T-Shirt <small>Standard Shipping</small>	USD 9,49	2	USD 18,98

Shipping Information	
Delivery Address	Standard Shipping

N-Layer

[Dashboard](#) / [Orders](#) / MKT-20251205-32B81

Order MKT-20251205-32B81

Delivered

Order Status



Confirmed



Processing



Shipped
gru 05



Delivered
gru 05

✓ Order status updated to Delivered.

Fulfilment Actions

Order Items (1)

Product	Unit Price	Quantity	Total
Green T-Shirt <small>Standard Shipping</small>	USD 9,49	2	USD 18,98

Shipping Information

Delivery Address

Jurowiecka 13, 123, Białystok, 15-101, Poland

Shipping Method

Standard Shipping

Carrier

paczkomat

Tracking Number

1239180398120398

Order Summary

Sub-Order ID

3621ae3d-725a-4ff8-8327-4e1fcfa73d9e1

Parent Order ID

0074c011-f6b4-40af-a552-df5595485b4f

Order Number

MKT-20251205-32B81

Order Date

grudnia 05, 2025 at 9:59 AM

Status

Delivered

Payment Status

Paid

Items Subtotal

USD 18,98

Shipping

USD 5,99

Total

USD 24,97

No Architecture

Home Privacy

Search products...

Search

Cart Login Register

Create an Account

Quick registration for buyers

G Continue with Google

F Continue with Facebook

Social login automatically creates a buyer account

or register with email



Account Type

Choose whether you want to register as a buyer or seller.

Buyer

I want to purchase products

Seller

I want to sell products

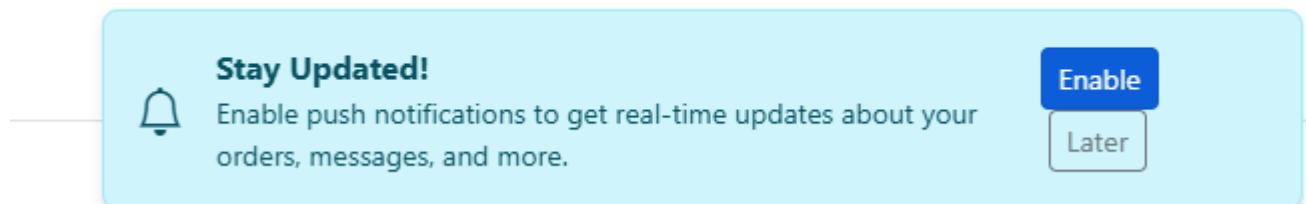
Login Credentials

Email

Password

Password must be at least 8 characters and contain uppercase, lowercase, digit, and special character.

Confirm Password



Stay Updated!

Enable push notifications to get real-time updates about your orders, messages, and more.

Enable

Later

MercatoApp Home Privacy

Search products...

Search



Cart

Admin User ▾

Welcome to MercatoApp

Your multi-vendor marketplace

Browse by Category

Clothing

1 product

Electronics

3 products
2 subcategories

Fashion

Home &...



Decor

Books

CDs

DVDs

Art

Posters

Music

Books

CDs

DVDs

No Architecture

Admin / Integration Management

Integration Management

Configure and monitor external integrations for payment providers, logistics, and other systems.

[Add New Integration](#)

[All](#) [Enabled Only](#) [All Types](#) [Payment](#) [Shipping](#) [ERP](#)

Configured Integrations

Name	Type	Provider	Environment	Status	Last Health Check	Actions	
Stripe Payment Gateway	Payment	Stripe	Production	Active	2025-12-05 10:40	Edit Delete	
FedEx Shipping	Shipping	FedEx	Sandbox	Inactive	Disabled	Never checked	Edit Delete
SAP ERP Connector	ERP	SAP	Development	Active	Never checked	Edit Delete	

[Important Notes](#)

- Security:** API keys and secrets are masked in the UI. Full values are never displayed once saved.
- Disabling:** When an integration is disabled, all calls to it are gracefully blocked with appropriate error messages.
- Environments:** Use Development/Sandbox for testing and Production for live transactions.
- Health Checks:** Run health checks from the details page to verify configuration and connectivity.
- Multiple Environments:** You can configure separate integrations for different environments (dev, test, prod).

MercatoApp Home Privacy

Search products... [Search](#) [Cart](#) [Login](#) [Register](#)

Red T-Shirt



8,99 zł

[Add to Cart](#)

Red T-Shirt for everyday wear.

Category [Clothing](#)
Availability 50 in stock

Shipping Information

Weight 0,2 kg
Dimensions 60 x 45 x 2 cm
Shipping Options Standard

Sold by

[Test Electronics Store](#) Fashion

Customer Reviews

[No reviews yet. Be the first to review this product!](#)

Product Info

Listed grudnia 5, 2025
Last Updated grudnia 5, 2025

Recently Viewed

T-Shirt
19,99 zł
by Test Store d5a1651f2d2e4b8894be6cff251d24a8

Other Laptop
1 500,00 zł
by Test Store 1b6f083eeadf4adab67034f6b7e7cc68

No Architecture

MercatoApp Home Privacy

Search products...

Search



Cart



Test Buyer

[Home](#) / Clothing

Clothing

Showing 1 - 2 of 2 products

Filters

[Clear All Filters](#)

Price Range
Min Max

Condition
 New
 Used
 Refurbished
 LikeNew
 ForParts

Seller
 Test Electronics Store

[Apply Filters](#)



Sort by: Newest

Secure Payment Gateway

This is a simulated payment page for testing

i **Demo Mode:** This is a simulation. No actual payment will be processed.

Payment Details

Payment Method: Bank Transfer

Amount: 13,99 zł

Transaction ID: 1

Select Your Bank

i You will be redirected to your bank to authorize the payment

! Your payment information is protected with industry-standard encryption.

Authorize Payment

[Cancel Payment](#)

Powered by MercatoApp Payment Gateway

No Architecture



Order Confirmed!

Thank you for your order. We've received it and will begin processing shortly.

Order #ORD-20251205-63324

Order Date	Order Total
grudnia 05, 2025 at 12:15 PM	13,99 zł
Payment Status	Shipping Methods
Payment Confirmed	Test Electronics Store: Standard Shipping (3-5 business days)
Payment Method: Bank Transfer	
Delivery Address	Order Tracking
Test Buyer 123 Main Street Apt 4B San Francisco, CA 94102 US Phone: +1-555-123-4567	You can track your order from your account dashboard.

Order Items

ⓘ Your order has been split into 1 seller sub-order(s). Each seller will fulfill their portion independently.

Test Electronics Store Sub-Order: ORD-20251205-63324-1	Paid
Green T-Shirt Quantity: 1 × 8,00 zł	8,00 zł

← Return #RTN-20251205-EBE76AAC

Order: ORD-20241202-00001

Resolved

Seller: Fashion Boutique

Request Type: **Return**

Requested: grudnia 05, 2025 at 1:36 PM

Reason: Damaged

Last Updated: grudnia 05, 2025 at 1:36 PM

Sub-Order: ORD-20241202-00001-2

Request Details

Buyer's Description:

Item arrived with visible damage to the packaging and product.

Items:

All Items in Sub-Order

Leather Wallet

Qty: 1 45,00 zł each

Expected Refund Amount: 57,99 zł

i Status & Resolution

Current Status: Resolved

Resolved on grudnia 05, 2025 at 1:36 PM

Resolution: Full Refund

Refund Amount: 57,99 zł

Resolution Notes from Seller:

Item was damaged in transit. Providing full refund to the customer. We apologize for the inconvenience.

Quality

The screenshot shows a dark-themed interface of ChatGPT 5.1. At the top, it says "SDsoftware - Mercato - Przygotowanie CSV". Below that, it says "ChatGPT 5.1". The main area contains a large list of numbered items, each preceded by a small colored icon (e.g., red, green, blue). The items are:

- 10, Ustycja ceny i stanu magazynowego, 1
- 11, Usunięcie produktu z listingu, 1
- 12, Import produktów z CSV, 2
- 13, Obsługa błędnego pliku CSV, 4
- 14, Wyszukiwanie produktu po nazwie, 1
- 15, Filtrowanie po kategorii, 1
- 16, Sortowanie po cenie rosnaco malejaco, 2
- 17, Wyświetlenie produktu niedostępnego, 1
- 18, Podpowiedzi wyszukiarki (suggestions), 3
- 19, Dodanie produktu do koszyka, 1
- 20, Dodanie produktów od dwóch różnych sprzedawców, 1
- 21, Usunięcie produktu z koszyka, 1
- 22, Weryfikacja stanów magazynowych w checkout, 1
- 23, Kod rabatowy, 4
- 24, Złożenie zamówienia z poprawnymi danymi, 1
- 25, Automatyczny podział zamówienia na sub-orders, 1
- 26, Sprzedawca oznacza zamówienie jako wyslane, 1
- 27, Kupujący widzi status przesyłki, 1
- 28, Próba zmiany statusu zamówienia przez niewłaściwego sprzedawcę, 1
- 29, Dodanie numeru trackingowego, 2
- 30, Kupujący zgłasza chęć zwrotu, 2
- 31, Sprzedawca odpowiada na zgłoszenie zwrotu, 2
- 32, Kupujący zgłasza zwrot bez numeru zamówienia, 5
- 33, Udana płatność online, 1
- 34, Niedana płatność, 1
- 35, System nalicza prowizję marketplace, 1
- 36, Sprzedawca pobiera miesięczny raport prowizji, 2
- 37, Email potwierdzający zamówienie dla kupującego, 1
- 38, Email o nowym zamówieniu dla sprzedawcy, 1
- 39, Sprzedawca widzi tylko dane klientów którzy kupili w jego sklepie, 1
- 40, Kupujący usuwa konto i dane są anonimizowane, 3

At the bottom, there is a message: "Jeśli chcesz, mogę przygotować plik CSV do pobrania lub rozszerzyć to o priorytety testów, poziomy testowe (unit/integration/E2E) albo mapowanie na moduły." Below that are several small icons: a person, a checkmark, a thumbs up, a thumbs down, a share icon, and three dots.

ID	Scenariusz
1	Rejestracja kupującego e-mail z poprawnymi danymi
2	Rejestracja sprzedawcy z danymi firmowymi
3	Logowanie przez email/hastu z poprawnymi danymi
4	Logowanie przez Google
5	Reset hasła z linkiem wysyłanym mailem
6	Próba logowania z blokadą po kilku błędnych hastach
7	Uzupełnienie profilu sklepu (logo opis kontakt)
8	Edycja danych sklepu przez sprzedawcę
9	Dodanie nowego produktu ze zdjęciem
10	Edycja ceny i stanu magazynowego
11	Usunięcie produktu z listingu
12	Import produktów z CSV
13	Obsługa błędnego pliku CSV
14	Wyszukiwanie produktu po nazwie
15	Filtrowanie po kategorii
16	Sortowanie po cenie rosnaco malejaco
17	Wyświetlenie produktu niedostępnego
18	Podpowiedzi wyszukiarki (suggestions)
19	Dodanie produktu do koszyka
20	Dodanie produktów od dwóch różnych sprzedawców
21	Usunięcie produktu z koszyka
22	Weryfikacja stanów magazynowych w checkout
23	Kod rabatowy
24	Złożenie zamówienia z poprawnymi danymi
25	Automatyczny podział zamówienia na sub-orders
26	Sprzedawca oznacza zamówienie jako wyslane
27	Kupujący widzi status przesyłki
28	Próba zmiany statusu zamówienia przez niewłaściwego sprzedawcę
29	Dodanie numeru trackingowego
30	Kupujący zgłasza chęć zwrotu
31	Sprzedawca odpowiada na zgłoszenie zwrotu
32	Kupujący zgłasza zwrot bez numeru zamówienia
33	Udana płatność online
34	Niedana płatność
35	System nalicza prowizję marketplace
36	Sprzedawca pobiera miesięczny raport prowizji
37	Email potwierdzający zamówienie dla kupującego
38	Email o nowym zamówieniu dla sprzedawcy
39	Sprzedawca widzi tylko dane klientów którzy kupili w jego sklepie
40	Kupujący usuwa konto i dane są anonimizowane

Quality

ID	Scenariusz	53%	78%	48%
		modular	n-layer	no architecture
1	Rejestracja kupującego e-mailem z poprawnymi danymi	1	1	0
2	Rejestracja sprzedawcy z danymi firmowymi	1	1	0
3	Logowanie przez email/hasło z poprawnymi danymi	1	1	1
4	Logowanie przez Google	0	0	0
5	Reset hasła z linkiem wysyłanym mailem	0	0	0
6	Próba logowania z blokadą po kilku błędnych hasłach	1		
7	Uzupełnienie profilu sklepu (logo opis kontakt)	1	1	1
8	Edycja danych sklepu przez sprzedawcę	1	1	1
9	Dodanie nowego produktu ze zdjęciem	1	1	1
10	Edycja ceny i stanu magazynowego	1	1	1
11	Usunięcie produktu z listingu	1	1	1
12	Import produktów z CSV	0	1	1
13	Obsługa błędnego pliku CSV	0	1	1
14	Wyszukiwanie produktu po nazwie	1	1	0
15	Filtrowanie po kategorii	1	1	1
16	Sortowanie po cenie rosnąco malejąco	1	1	1
17	Wyświetlenie produktu niedostępnego	1	1	1
18	Podpowiedzi wyszukiwarki (suggestions)	0	1	1
19	Dodanie produktu do koszyka	1	1	1
20	Dodanie produktów od dwóch różnych sprzedawców	1	1	1
21	Usunięcie produktu z koszyka	1	1	1
22	Walidacja stanów magazynowych w checkout	1	1	1
23	Kod rabatowy	0	0	0
24	Złożenie zamówienia z poprawnymi danymi	1	1	1
25	Automatyczny podział zamówienia na sub-orders	0	0	0
26	Sprzedawca oznacza zamówienie jako wysłane	0	1	0
27	Kupujący widzi status przesyłki	1	1	1
28	Próba zmiany statusu zamówienia przez niewłaściwego sprzedawcę	0	1	0
29	Dodanie numeru trackingowego	0	1	0
30	Kupujący zgłasza chęć zwrotu	0	1	0
31	Sprzedawca odpowiada na zgłoszenie zwrotu	0	1	0
32	Kupujący zgłasza zwrot bez numeru zamówienia	0	1	0
33	Udana płatność online	0	0	0
34	Nieudana płatność	1	1	1
35	System nalicza prowizję marketplace	0	1	0
36	Sprzedawca pobiera miesięczny raport prowizji	0	1	0
37	Email potwierdzający zamówienie dla kupującego	0	0	0
38	Email o nowym zamówieniu dla sprzedawcy	0	0	0
39	Sprzedawca widzi tylko dane klientów którzy kupili w jego sklepie	0	1	0
40	Kupujący usuwa konto i dane są anonimizowane	1	0	0

Modular: 53%

N-Layer: 78%

No Arch.: 48%

Quality

ID	Scenariusz	53%	78%	48%
		modular	n-layer	no architecture
1	Rejestracja kupującego e-mailem z poprawnymi danymi	1	1	0
2	Rejestracja sprzedawcy z danymi firmowymi	1	1	0
3	Logowanie przez email/hasło z poprawnymi danymi	1	1	1
4	Logowanie przez Google	0	0	0
5	Reset hasła z linkiem wysyłanym mailem	0	0	0
6	Próba logowania z blokadą po kilku błędnych hasłach	1		
7	Uzupełnienie profilu sklepu (logo opis kontakt)	1	1	1
8	Edycja danych sklepu przez sprzedawcę	1	1	1
9	Dodanie nowego produktu ze zdjęciem	1	1	1
10	Edycja ceny i stanu magazynowego	1	1	1
11	Usunięcie produktu z listingu	1	1	1
12	Import produktów z CSV	0	1	1
13	Obsługa błędnego pliku CSV	0	1	1
14	Wyszukiwanie produktu po nazwie	1	1	0
15	Filtrowanie po kategorii	1	1	1
16	Sortowanie po cenie rosnąco malejąco	1	1	1
17	Wyświetlenie produktu niedostępnego	1	1	1
18	Podpowiedzi wyszukiwarki (suggestions)	0	1	1
19	Dodanie produktu do koszyka	1	1	1
20	Dodanie produktów od dwóch różnych sprzedawców	1	1	1
21	Usunięcie produktu z koszyka	1	1	1
22	Walidacja stanów magazynowych w checkout	1	1	1
23	Kod rabatowy	0	0	0
24	Złożenie zamówienia z poprawnymi danymi	1	1	1
25	Automatyczny podział zamówienia na sub-orders	0	0	0
26	Sprzedawca oznacza zamówienie jako wysłane	0	1	0
27	Kupujący widzi status przesyłki	1	1	1
28	Próba zmiany statusu zamówienia przez niewłaściwego sprzedawcę	0	1	0
29	Dodanie numeru trackingowego	0	1	0
30	Kupujący zgłasza chęć zwrotu	0	1	0
31	Sprzedawca odpowiada na zgłoszenie zwrotu	0	1	0
32	Kupujący zgłasza zwrot bez numeru zamówienia	0	1	0
33	Udana płatność online	0	0	0
34	Nieuudana płatność	1	1	1
35	System nalicza prowizję marketplace	0	1	0
36	Sprzedawca pobiera miesięczny raport prowizji	0	1	0
37	Email potwierdzający zamówienie dla kupującego	0	0	0
38	Email o nowym zamówieniu dla sprzedawcy	0	0	0
39	Sprzedawca widzi tylko dane klientów którzy kupili w jego sklepie	0	1	0
40	Kupujący usuwa konto i dane są anonimizowane	1	0	0

Modular: 53%

N-Layer: 78%

No Arch.: 48%

PROD: 98%

LEARNINGS

LEARNINGS

Tech Stack – big impact

LEARNINGS

Tech Stack – big impact

Merging – conflicts

LEARNINGS

Tech Stack – big impact

Merging – conflicts

Missing URLs in system

LEARNINGS

Tech Stack – big impact

Merging – conflicts

Missing URLs in system

Database migration – Fail

SUMMARY

	Modular Monolith	N-Layer	No Architecture
Effort	72h 18min	51h 32min	43h 30min
Cost	\$38,63	\$27,91	\$24,1
Security	3M	4M	6H 2M
Code Quality	13,3	13,9	14,6
Code Complexity	23,5	27,7	52,1
Business Value	53%	78%	48%

SUMMARY

Architecture



miro



Fireflies

Coding



GitHub
Copilot



ChatGPT

**AI is creating a new paradigm
where coding no longer matter**

THANK YOU

Sebastian Dąbkowski

THANK YOU



Q & A

Sebastian Dąbkowski