DECATHLON | TECHNOLOGY

CAMUNDA

CAMUNDACON 2022

HOW DECATHLON RENOVATES HIS ORDER MANAGER

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103138 passionate teammates
82 nationalities

1698 stores in
61 countries

171M customers & **400M users**
of our products

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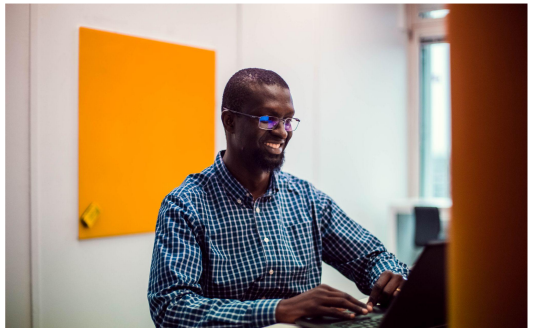
Ecommerce, Data, Cybersecurity, Apps, Connected products, Cloud, Accounts, etc.

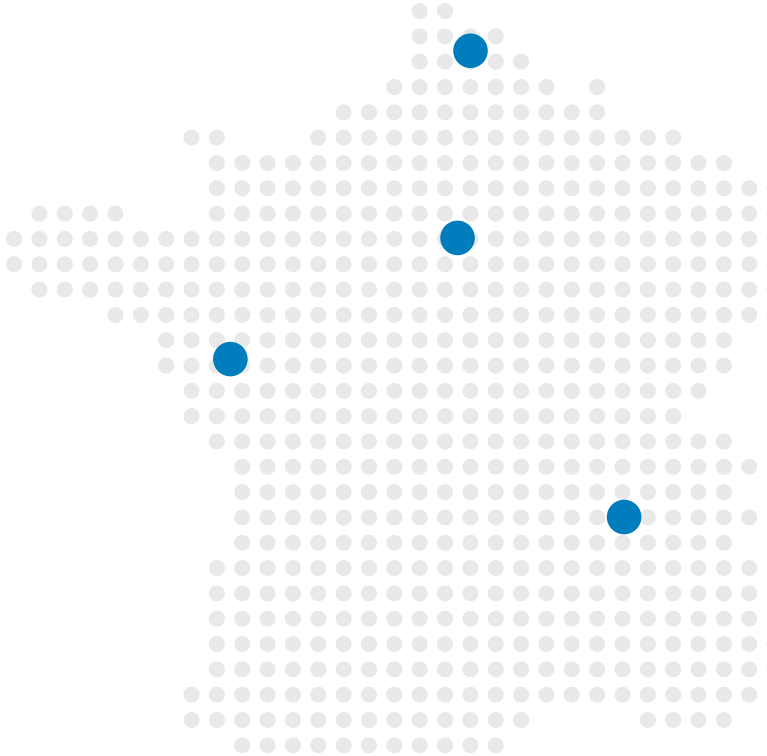
3500 Teammates



6 TECHNOLOGY HUBS

- Decathlon Technology HQ, Croix (Lille)
- Decathlon Technology Paris Hub
- Decathlon Technology Lyon Hub
- Decathlon Technology Nantes Hub
- Btwin Village, Lille
- Decathlon Campus, Villeneuve d'Ascq (Lille)

⏩ Opening soon: Decathlon Technology Singapore Hub!



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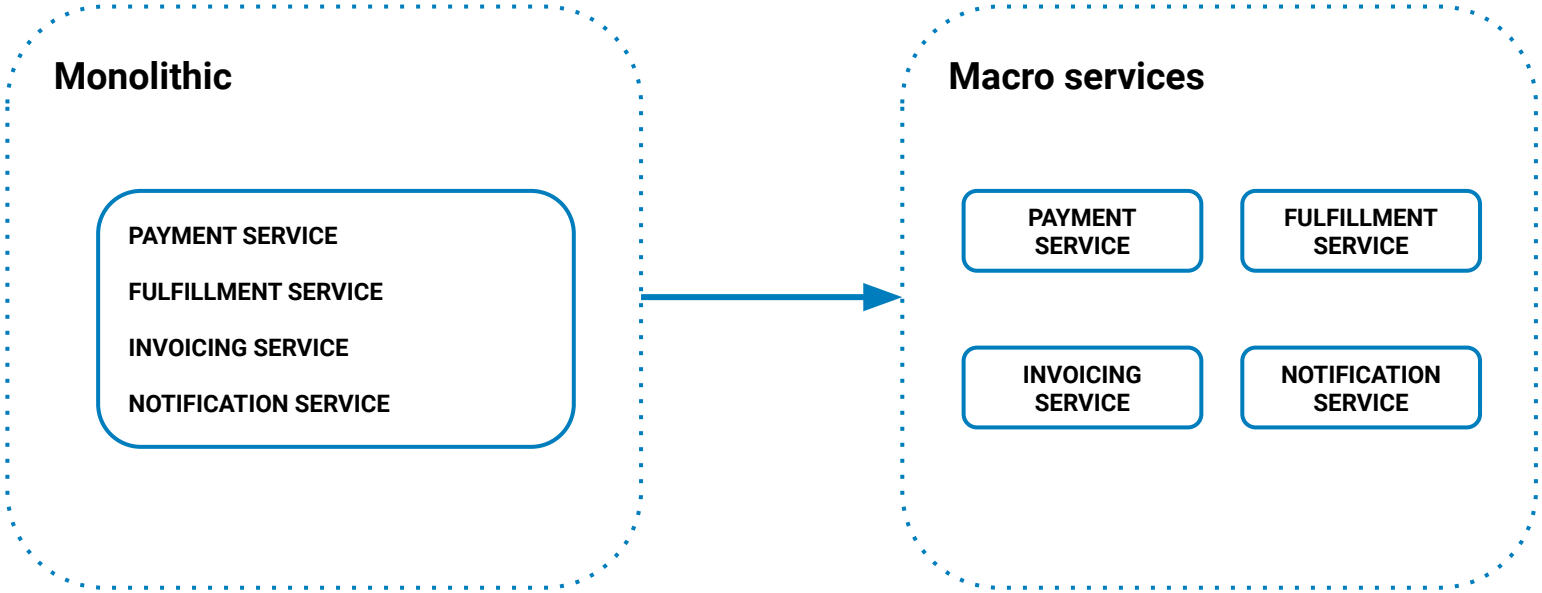
OUR AMBITION

A unique ecosystem of sport products & services.

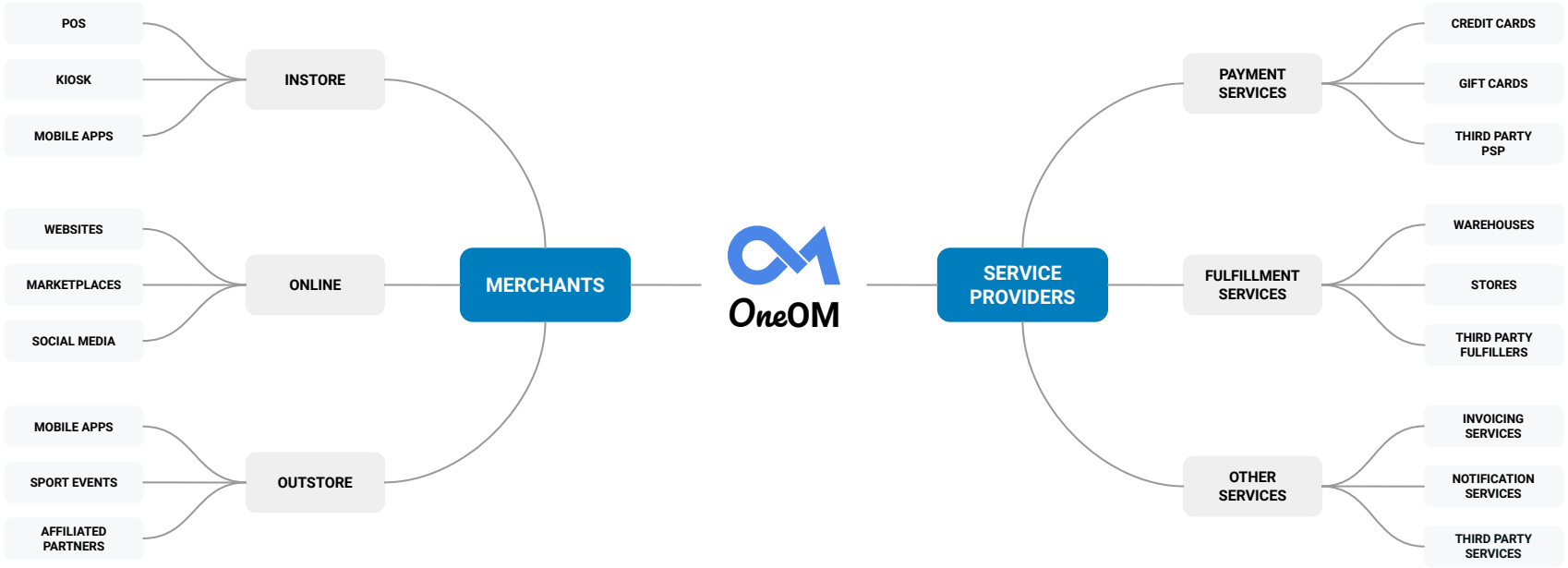
- The best self informed choice of sport products featuring Decathlon's and Partner's products but also second hand and rental options
- Innovative and accessible Sport Experiences (Outdoor, Coach, etc)
- Excellent sport services (Repair, Assembly)
- A personalized and engaging experience (Personalisation of products and recommandations, membership program)

A seamless experience between products and services thanks to mature technologies and value chains (Fast delivery, Mobile First, Localized shipping, Click&Collect, etc.)

CONTEXT


Monolithic
PAYMENT SERVICE
FULFILLMENT SERVICE
INVOICING SERVICE
NOTIFICATION SERVICE
Macro services
PAYMENT SERVICE
FULFILLMENT SERVICE
INVOICING SERVICE
NOTIFICATION SERVICE

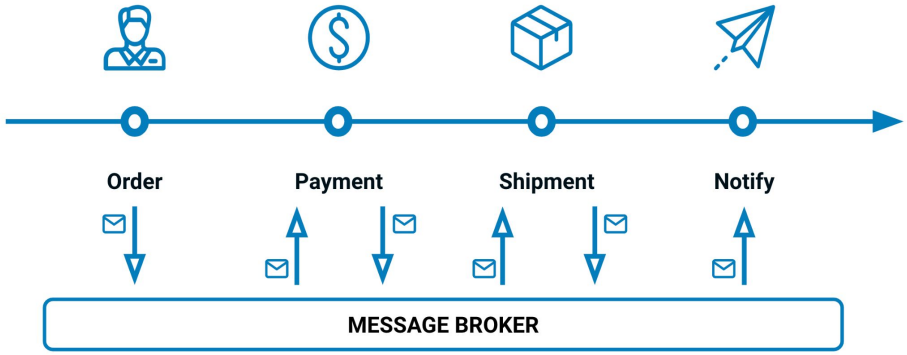
PLATFORM ORIENTED



PLATFORM ORIENTED

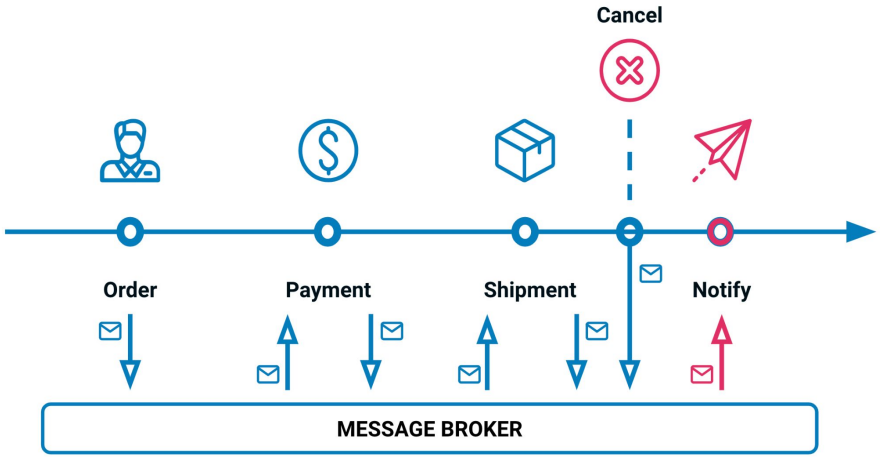
PROS

- Loosely coupled services
- System easy to extend
- No single point of failure
- Services scalability
- Easy data analysis
- Big experience



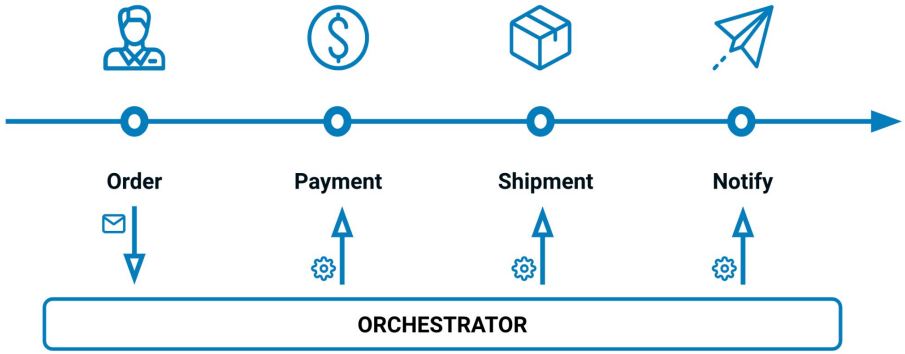
CONS

- No business transaction management
- Errors and retry are hard
- No priority between workflows
- Difficult to monitor
- No process documentation



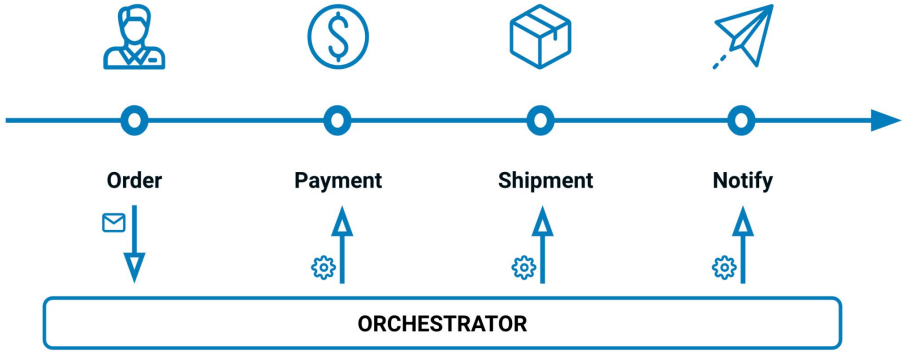
PROS

- Monitoring
- Services keep their own logic
- Errors, retries and timeout are centralized
- Services still not coupled
- Transaction management
- Easy process analysis



CAMUNDA IN ACTION

CAMUNDA



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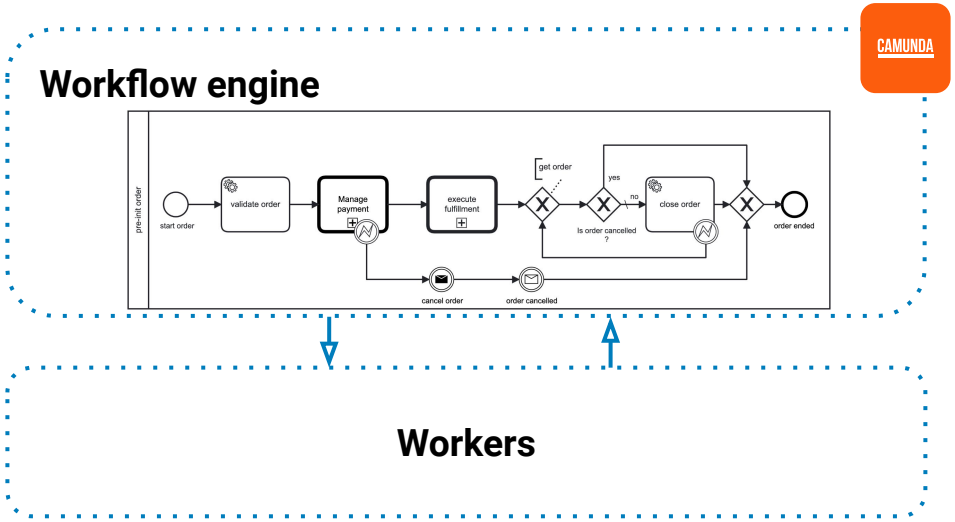

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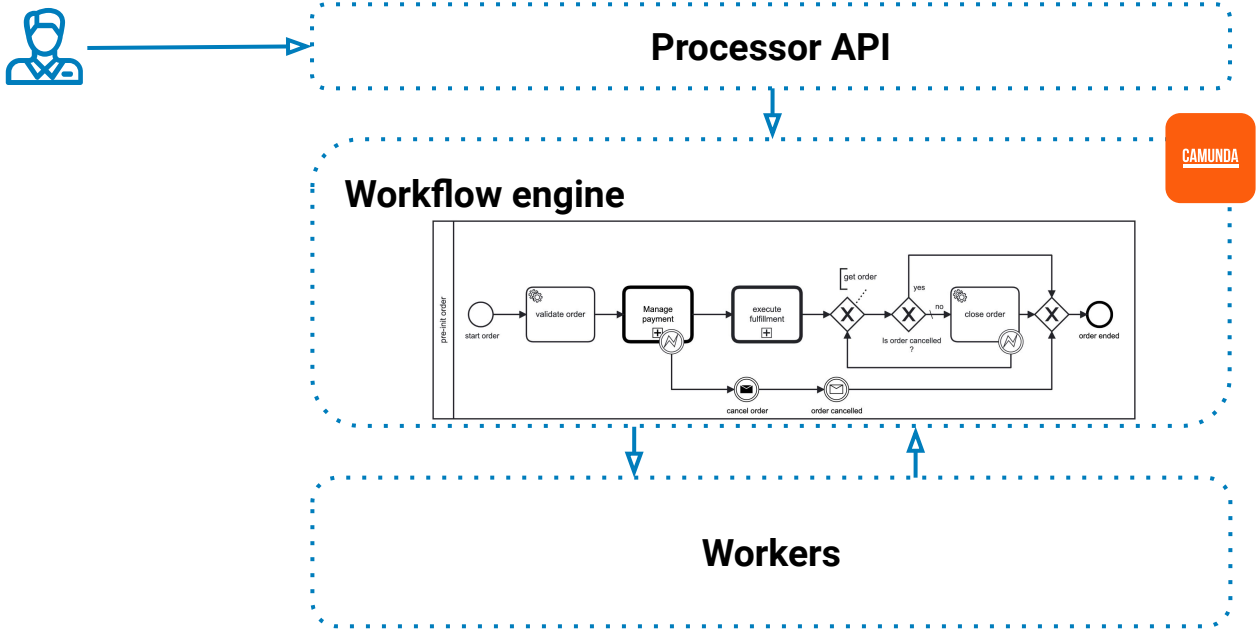

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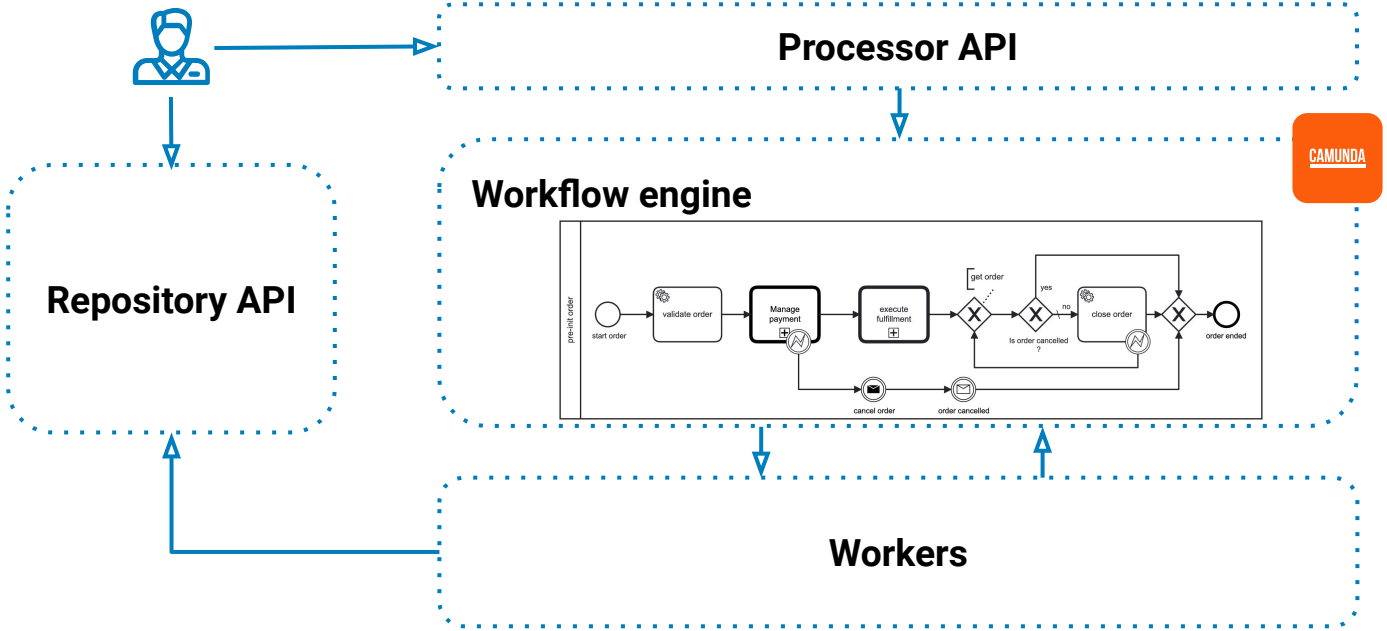

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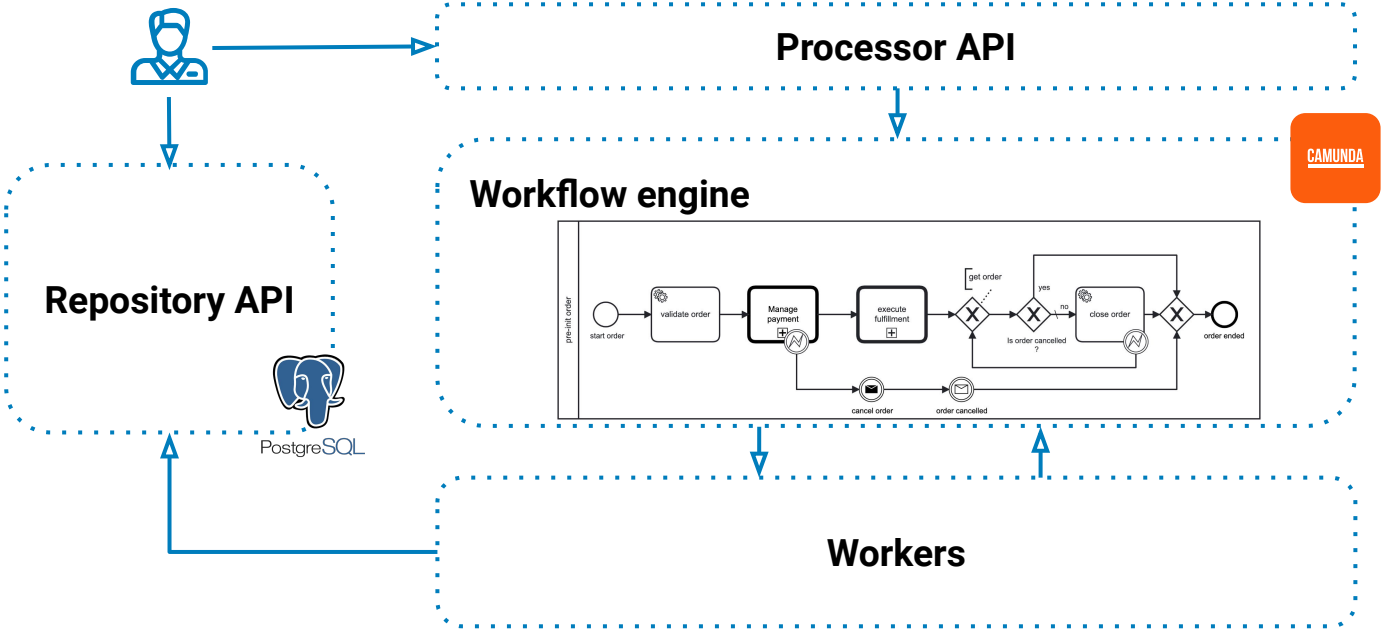

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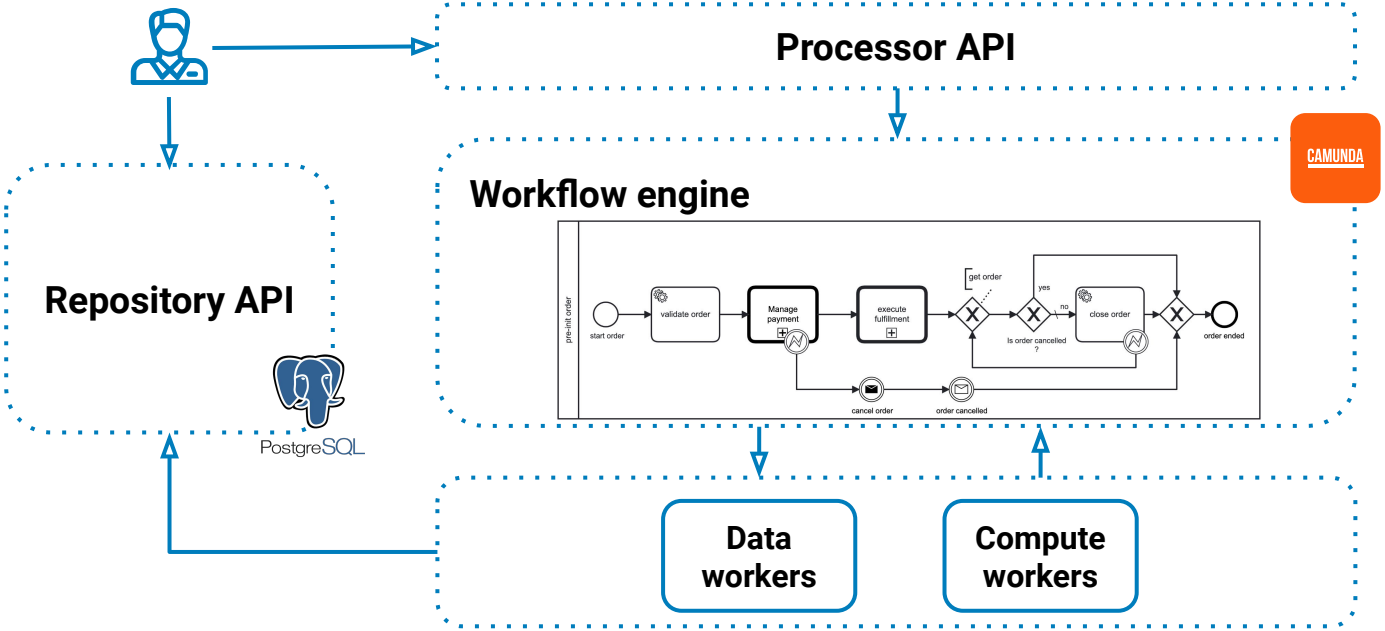

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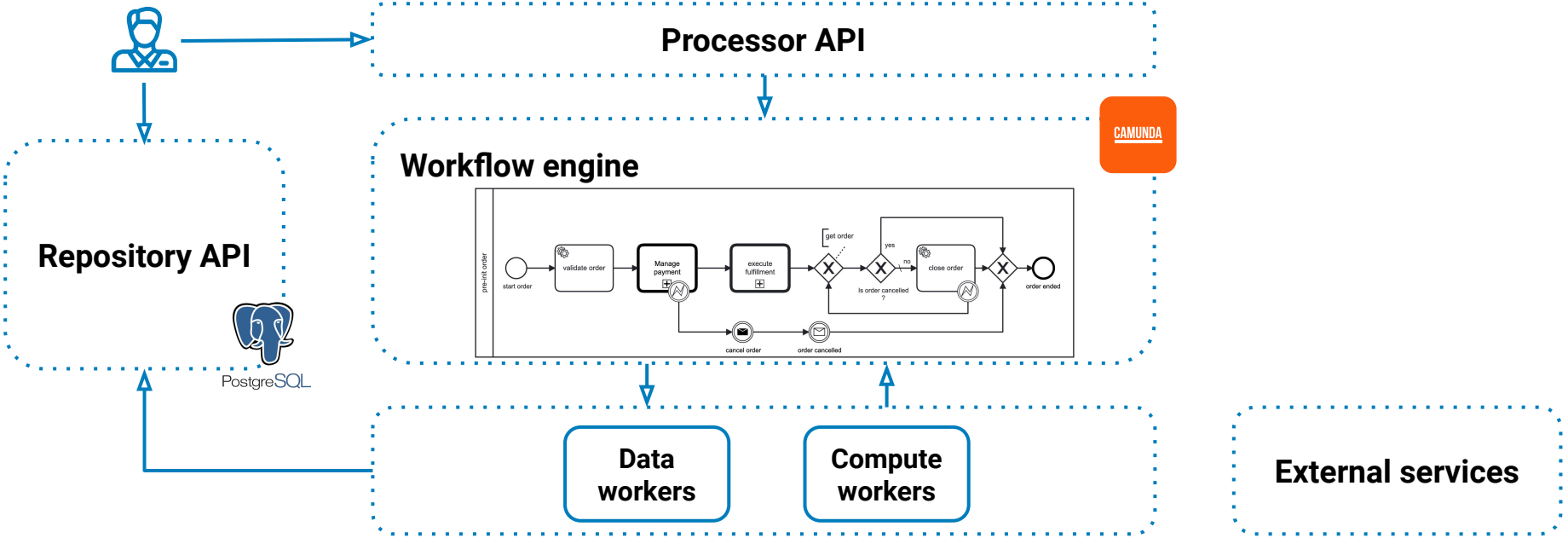

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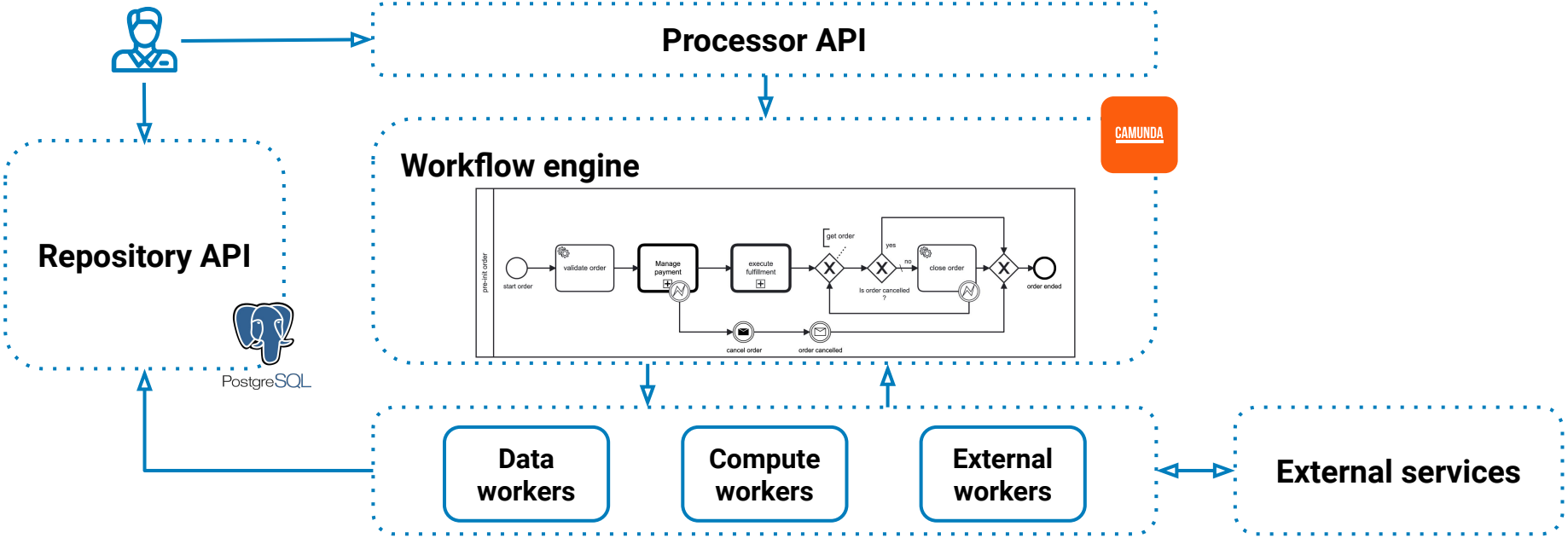

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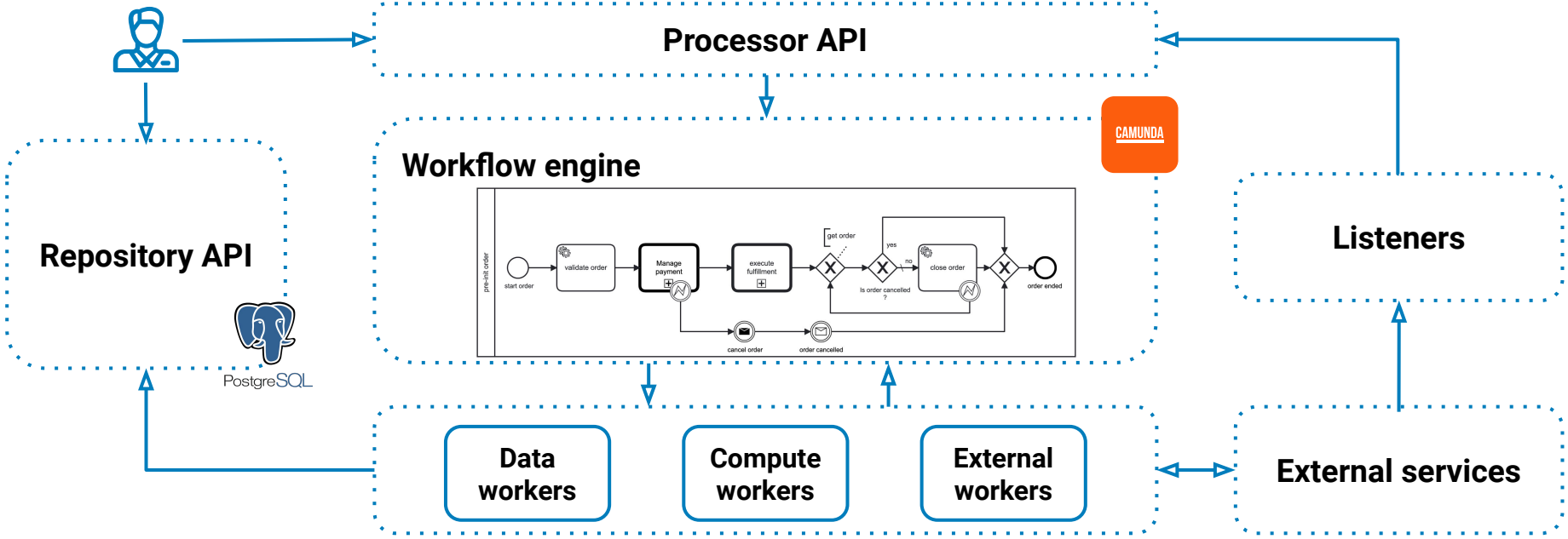

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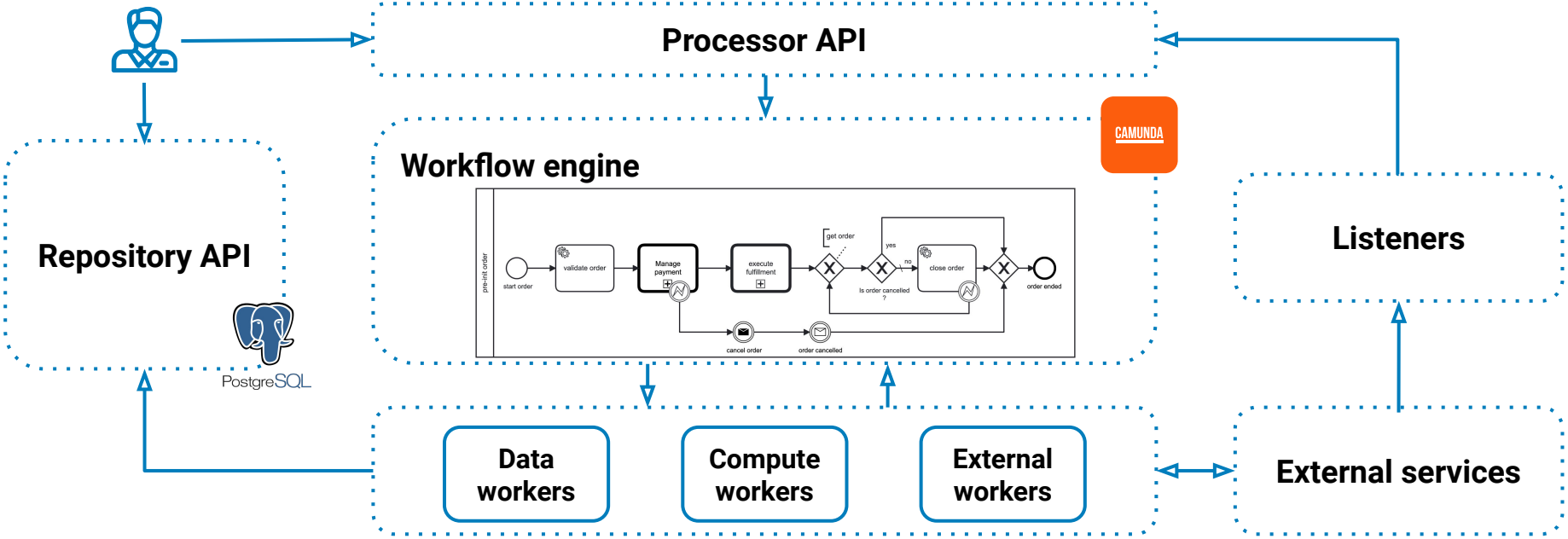
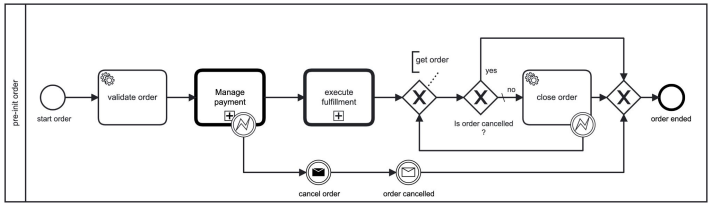


CAMUNDA IN ACTION

EVENT BUS

Processor API

Workflow engine



CAMUNDA

Repository API

PostgreSQL

Listeners

Data workers

Compute workers

External workers

External services

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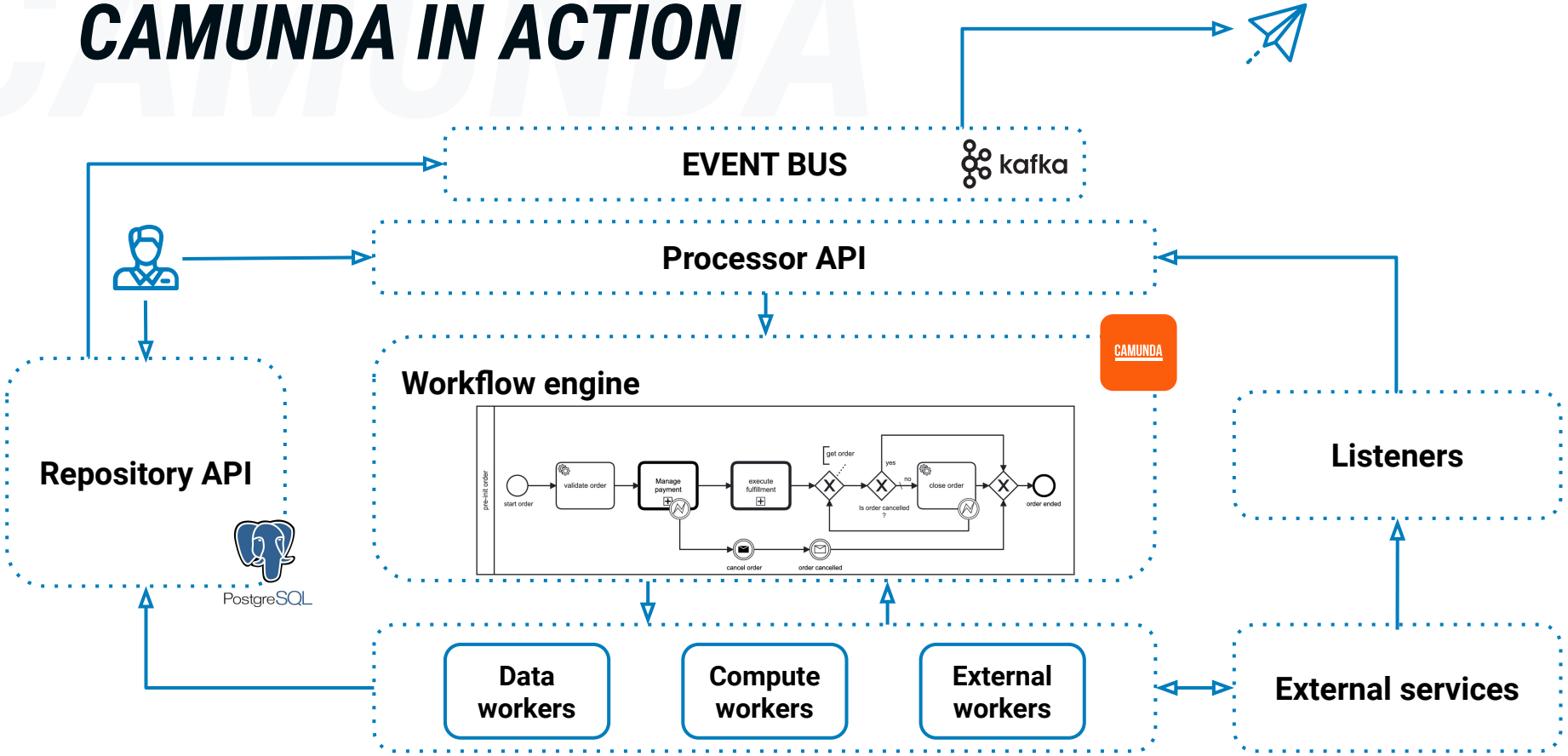
CAMUNDA IN ACTION



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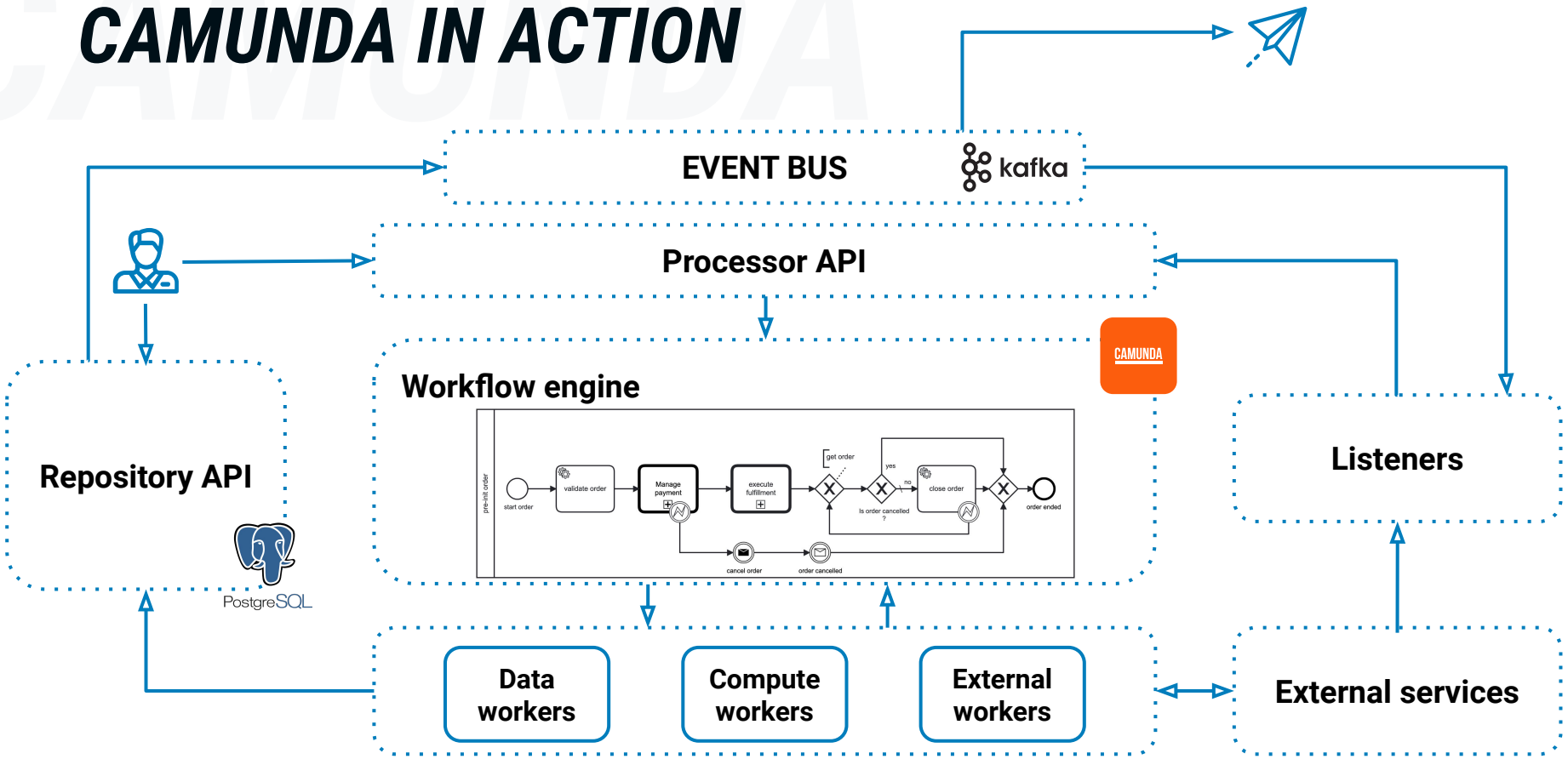
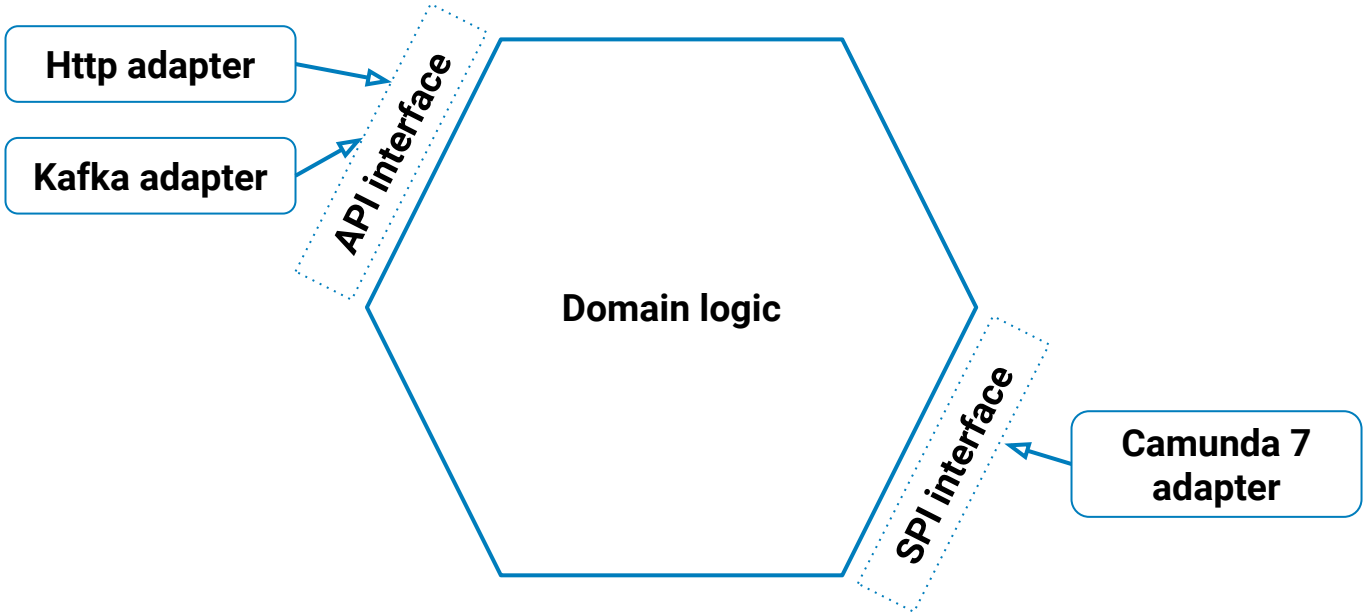


HEXAGONAL ARCHITECTURE



QUALITY

Quality Gate ?

Passed

New Code | Overall Code

New code: Since about 1 month ago

Reliability

0 Bugs ? — A

Maintainability

3 Code Smells ? — A

Security

0 Vulnerabilities ? — A

Security Review

0 Security Hotspots ? — A

Coverage

87.7% Coverage ?

on 314 New Lines to cover

Duplications

0.4% Duplications ?

on 3.3k New Lines

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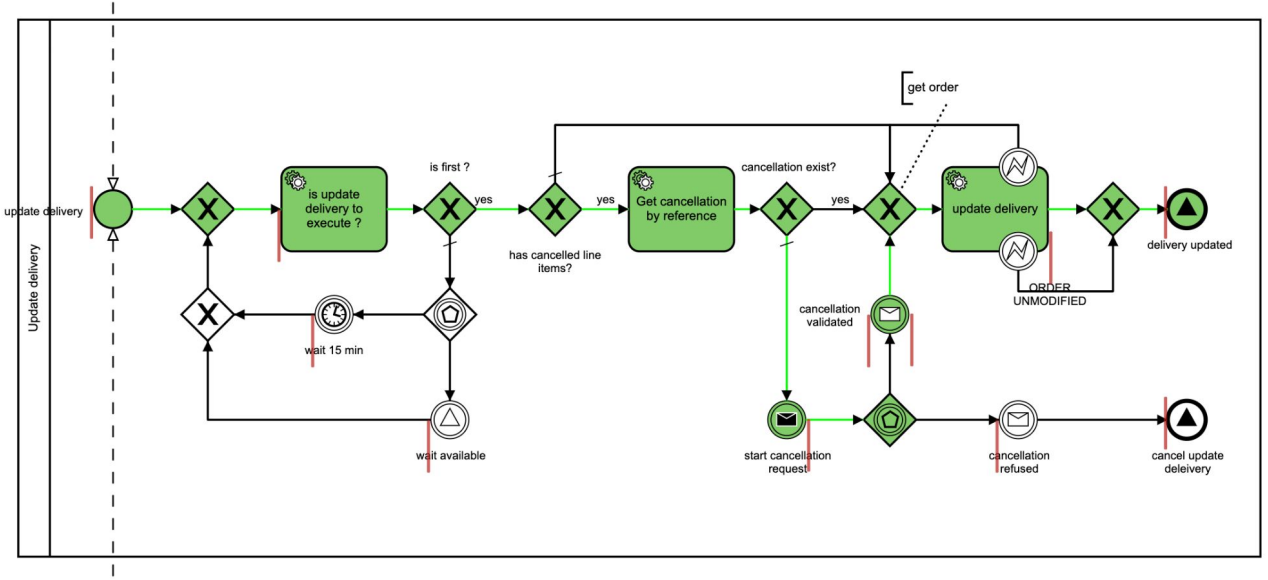
TESTING PROCESS



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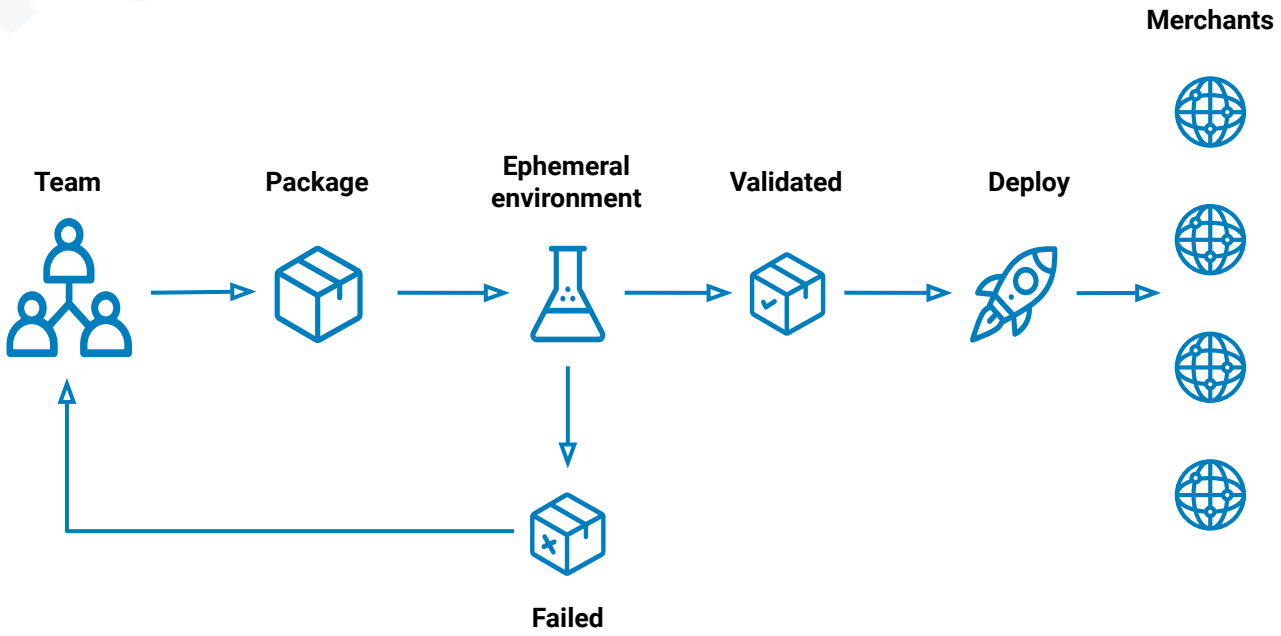
TESTING PLATFORM



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STATISTICS

OVERVIEW (SEPTEMBER 2022 UPDATE)

400 000
Orders

100 000
Change requests

10
Merchants

27
Workflows

99.99%
Availability

4 Millions
Events YTD

+3300 *orders / day*

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NEXT YEAR

50
Merchants

15K / DAY
Orders

60 Millions
Events

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FUTURE

- Migration study to Camunda Platform 8
- Reduce system complexity
- Test NewSQL solution

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