



SYSTEM ADMINISTRATION WS24/25

Stock Tracker

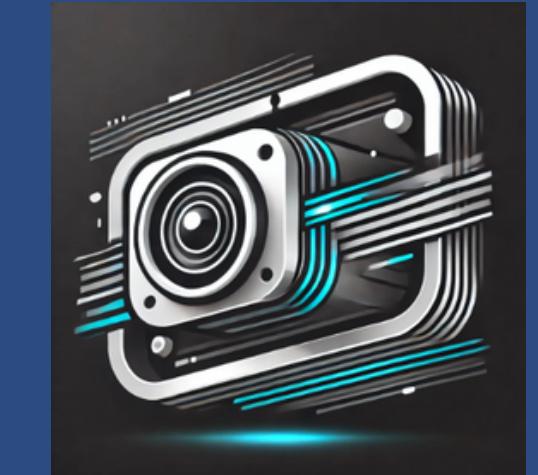
früher: Fridge Tracker

Manuel Walser (35825)

Marcel Eichelberger (35763)

Mike Lachmuth (35968)

Noah Preyer (35797)



Anforderungen

Muss

Produkt muss von der Kamera identifiziert werden

Produkt muss der passenden Produktkategorie zugeordnet werden

Produktbestand muss in der Datenbank abgespeichert werden

Verschicke Mail nach Aufnahme von Produkten

Soll

Webinterface oder App mit aktuellen Bestand

~~Display zeigt an ob ein Objekt erkannt wurde -> Video Feed im Browser~~

Kann

~~Unterscheiden reinlegen und herausnehmen~~

~~Home Assitant~~

Projektmanagement

Dev-Branch & Feature-Branches

Scrum

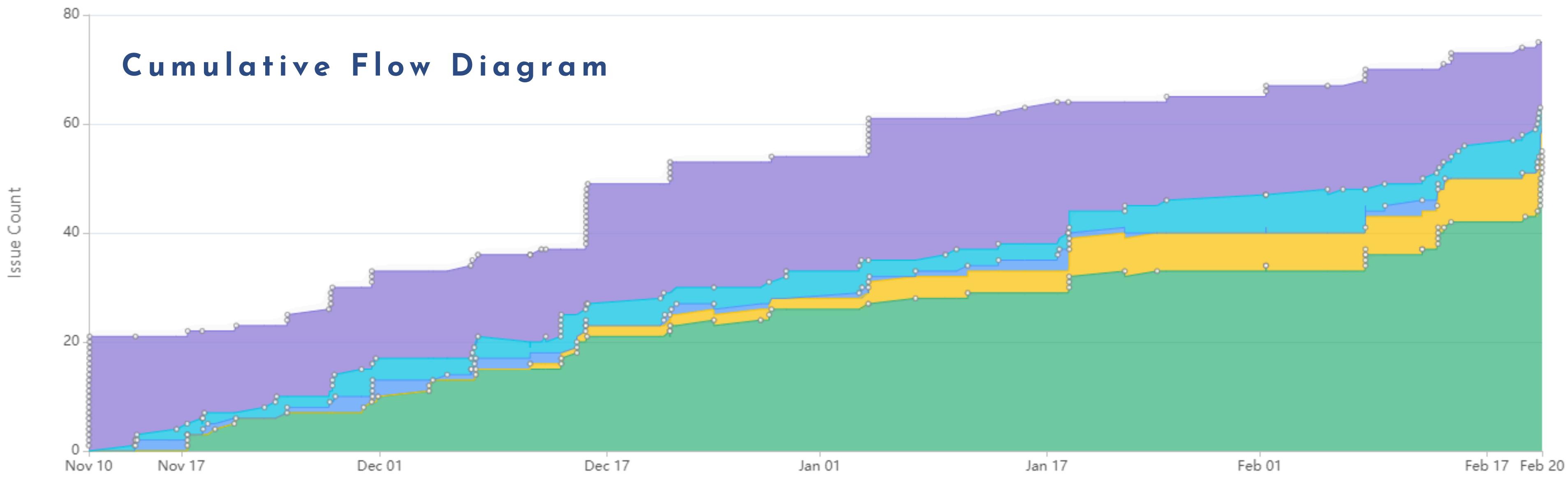
- Sprint Review & Planing
- (Daily-)Sprints

Jira-Tickets

Code-Review: min 1 Reviewer/MR

✓ To Do ✓ In Progress ✓ In Review ✓ Wont Do ✓ Done

Cumulative Flow Diagram



Schwierigkeiten

Sprint Overcommitment

Absprache Schnittstellen-Kommunikation

Yolo Modell

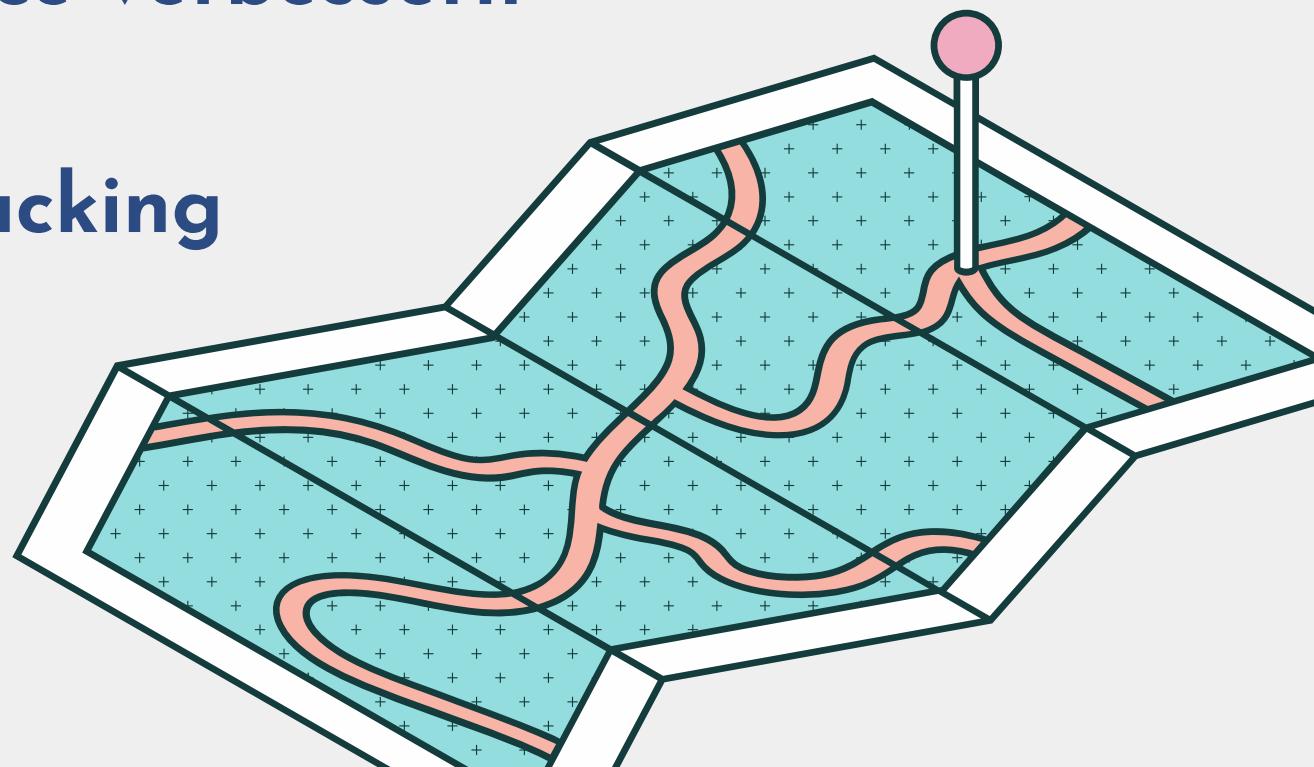
Namenskonvention

Ausblick

Mehr Kameras einbinden

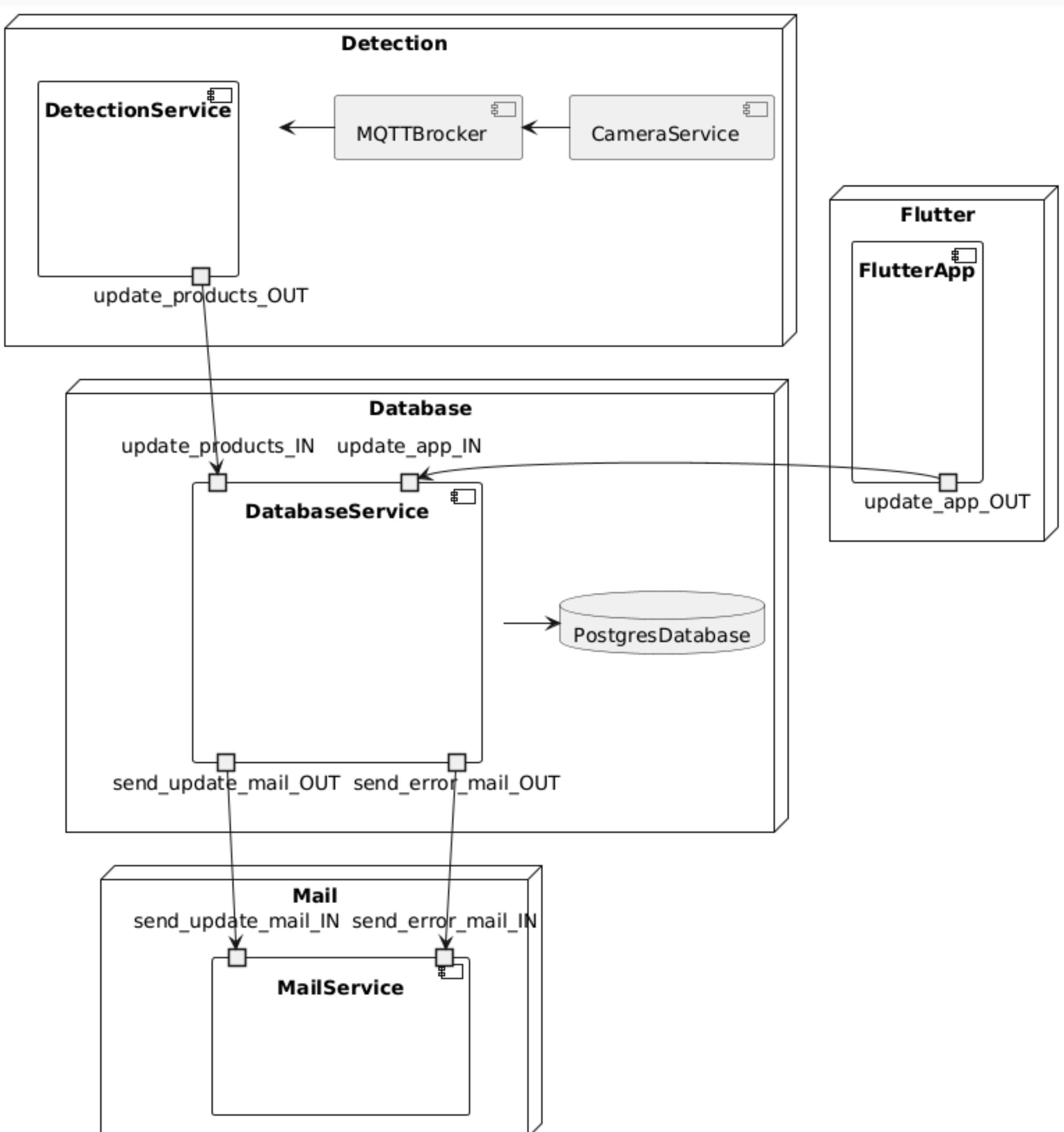
Performance verbessern

History Tracking



Projektstruktur

Komponentendiagramm



Docker

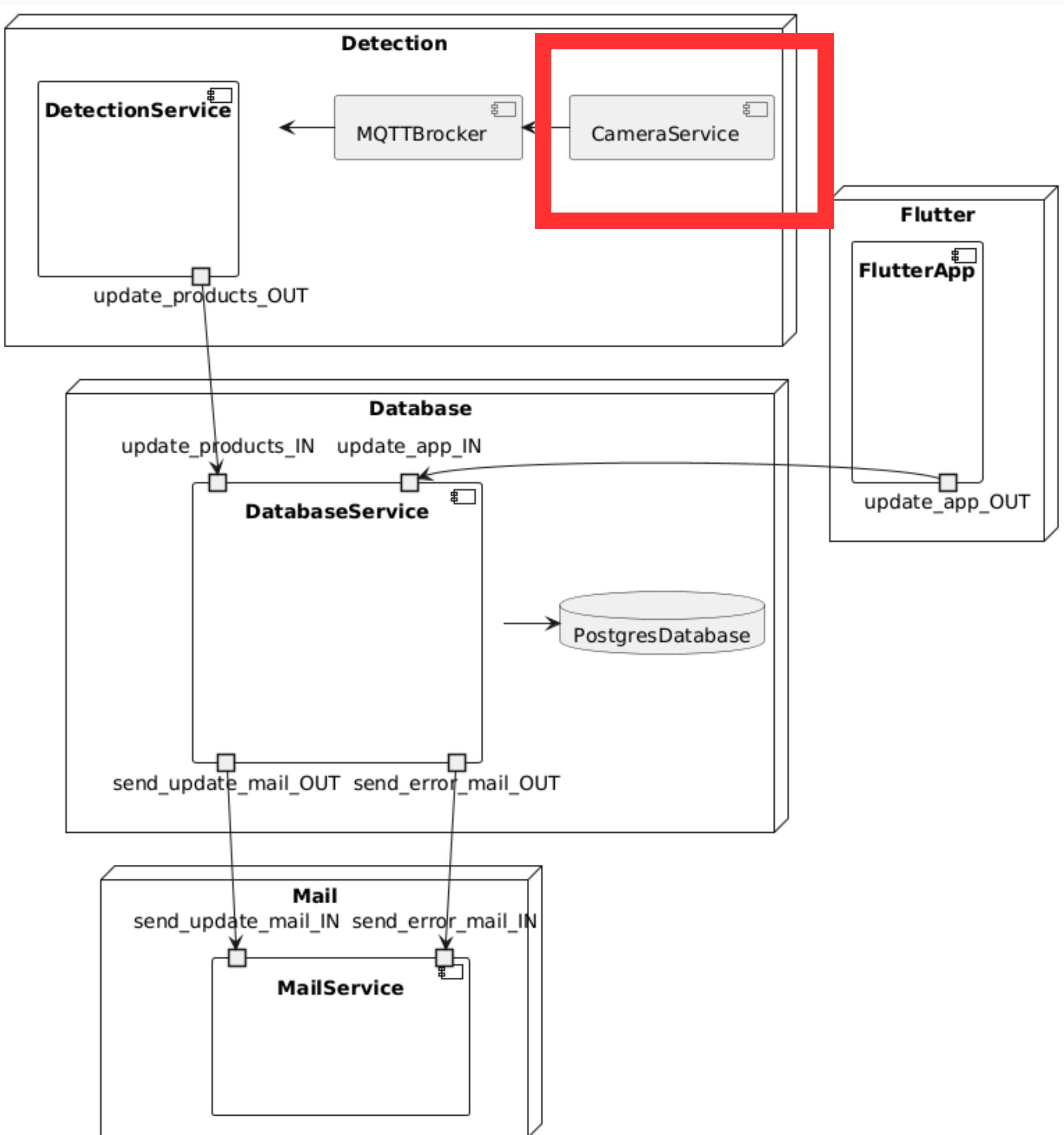
Python und Flutter

REST und MQTT

PostgreSQL

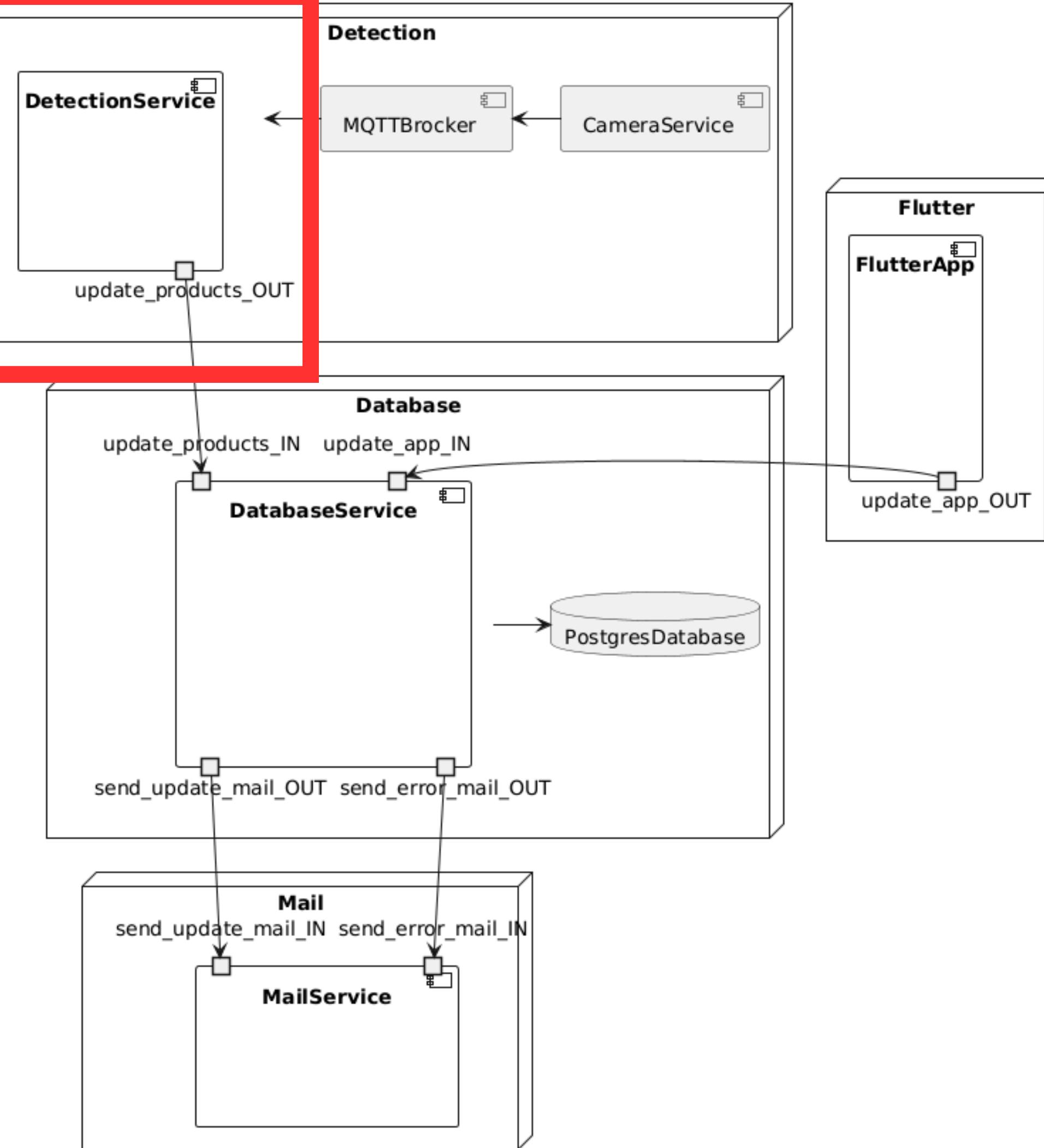
Projektstruktur

Komponentendiagramm



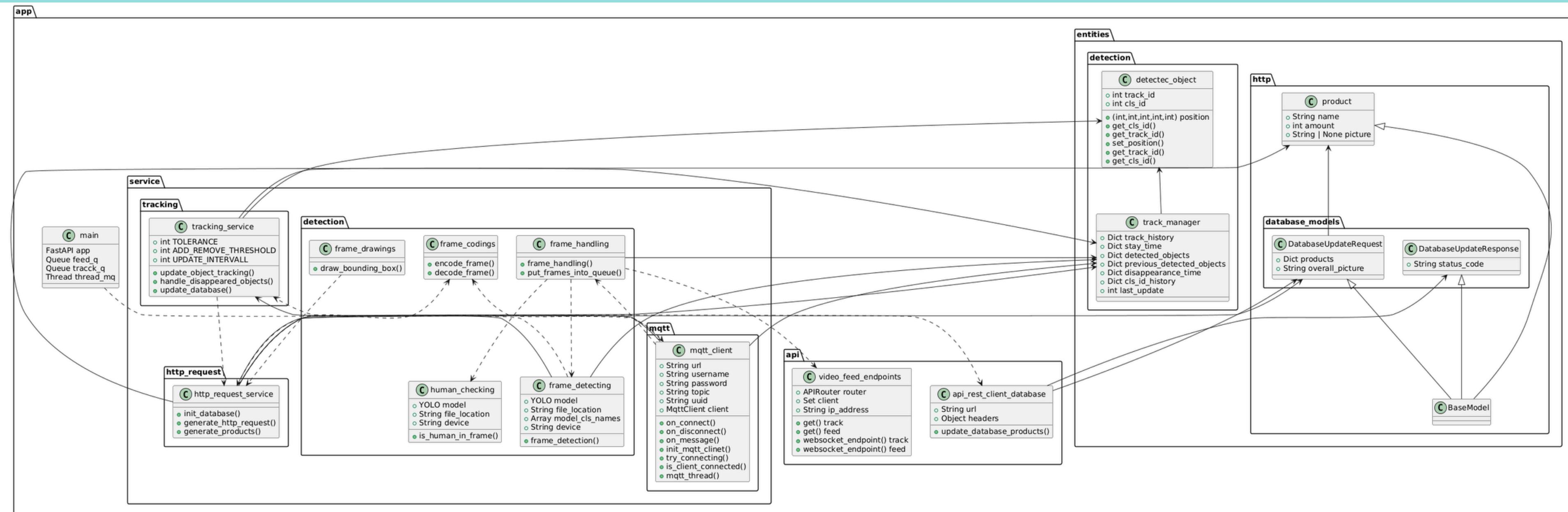
Projektstruktur

Komponentendiagramm



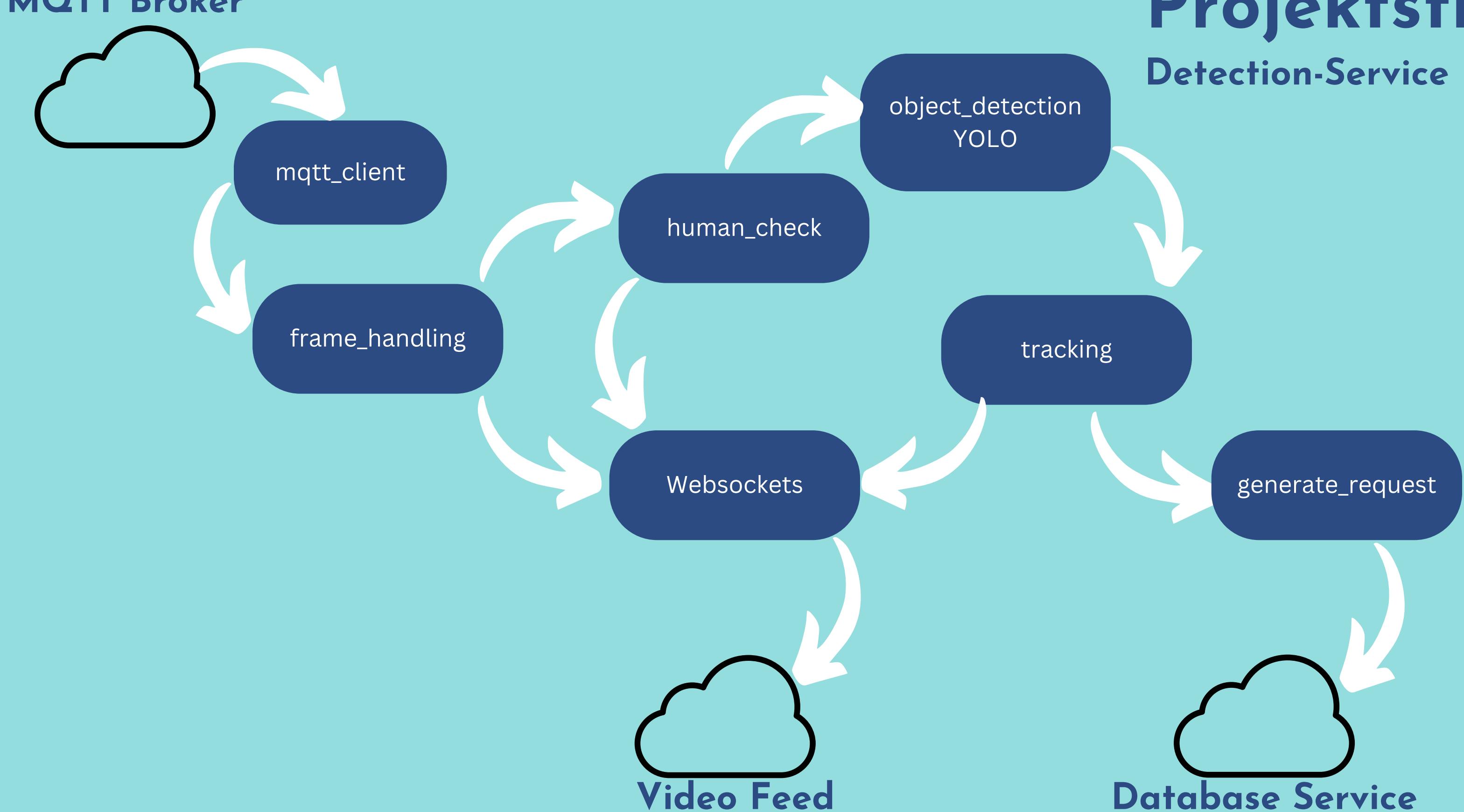
Projektstruktur

Detection-Service



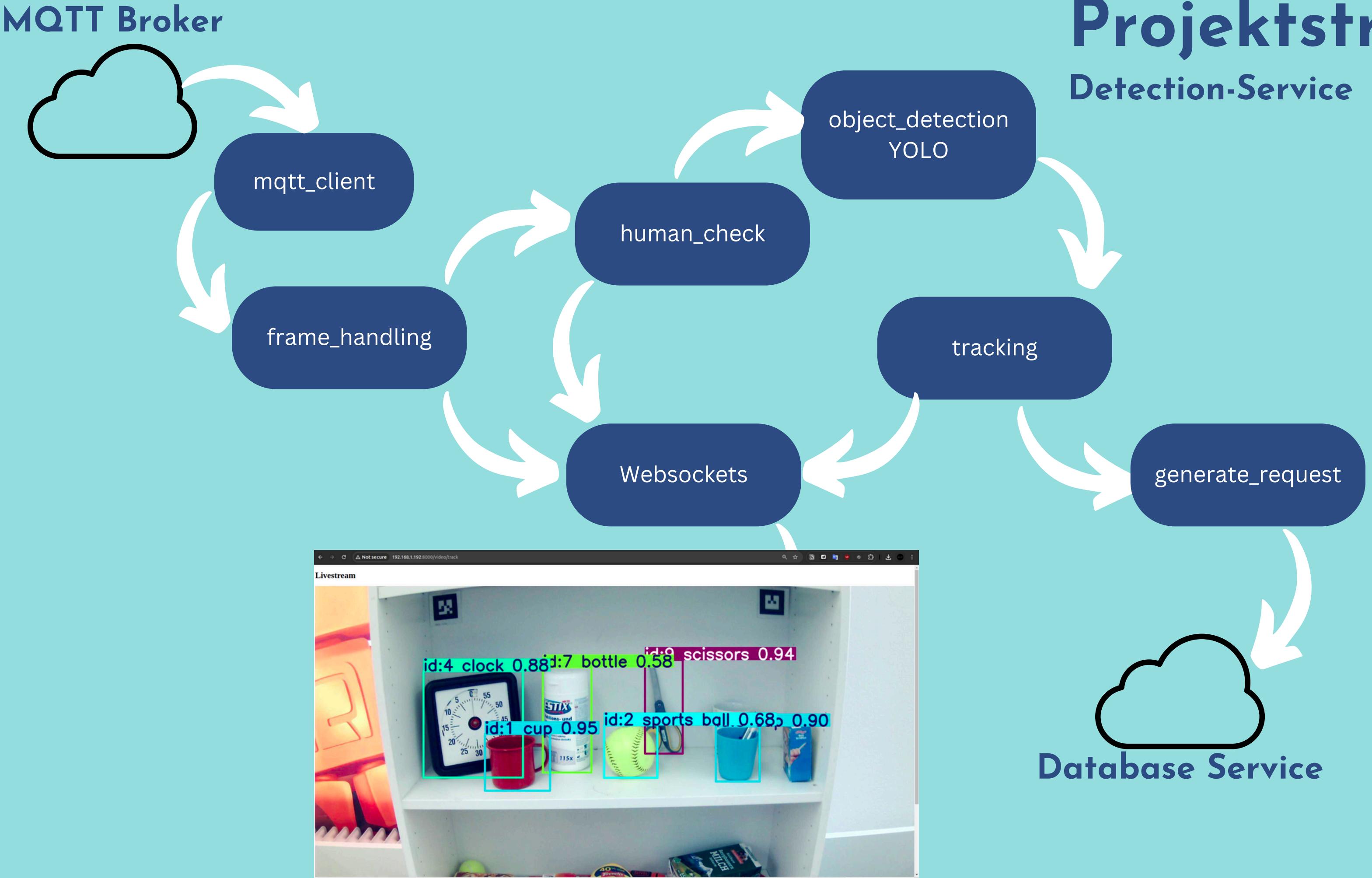
Projektstruktur

Detection-Service



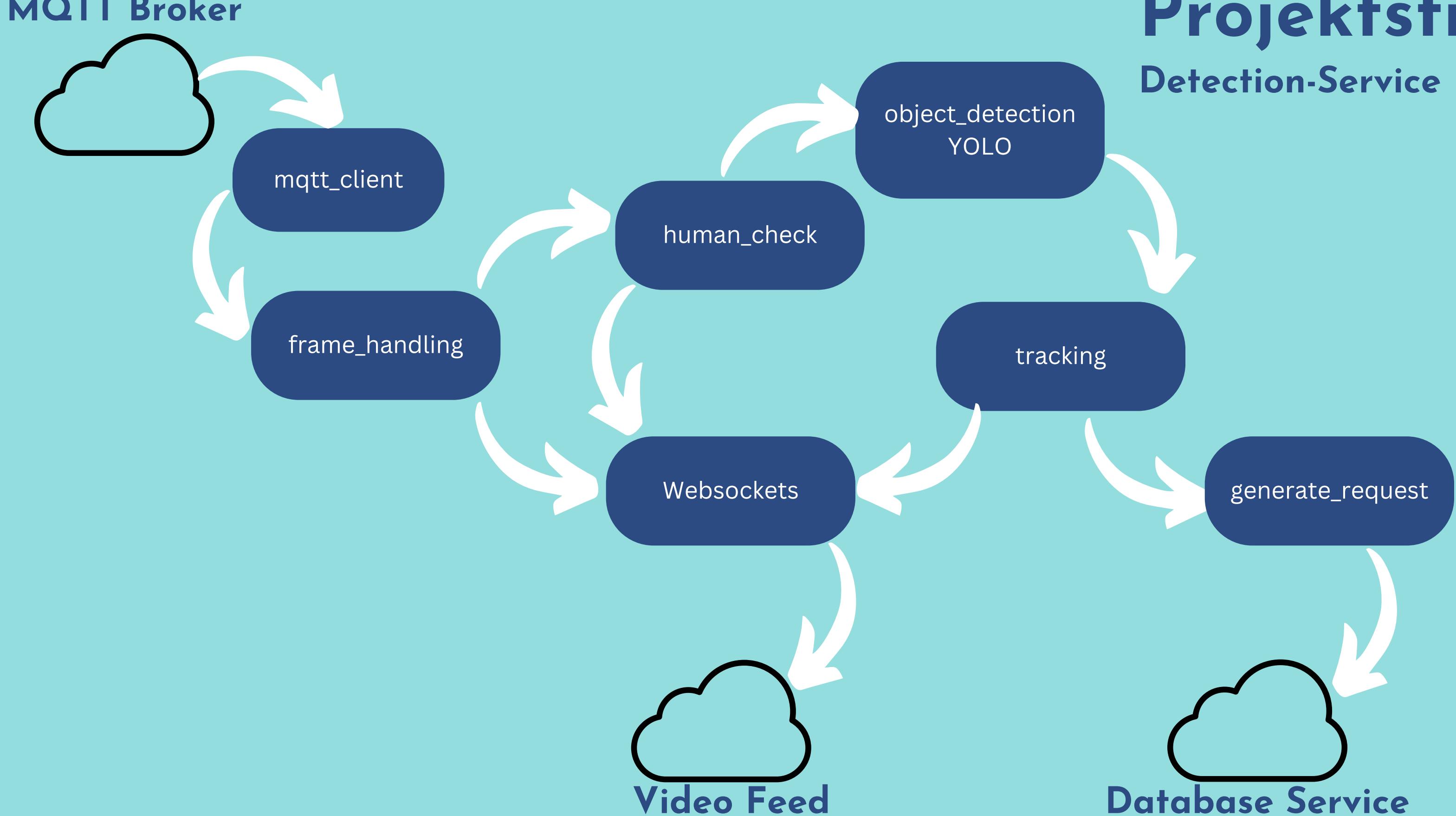
Projektstruktur

Detection-Service



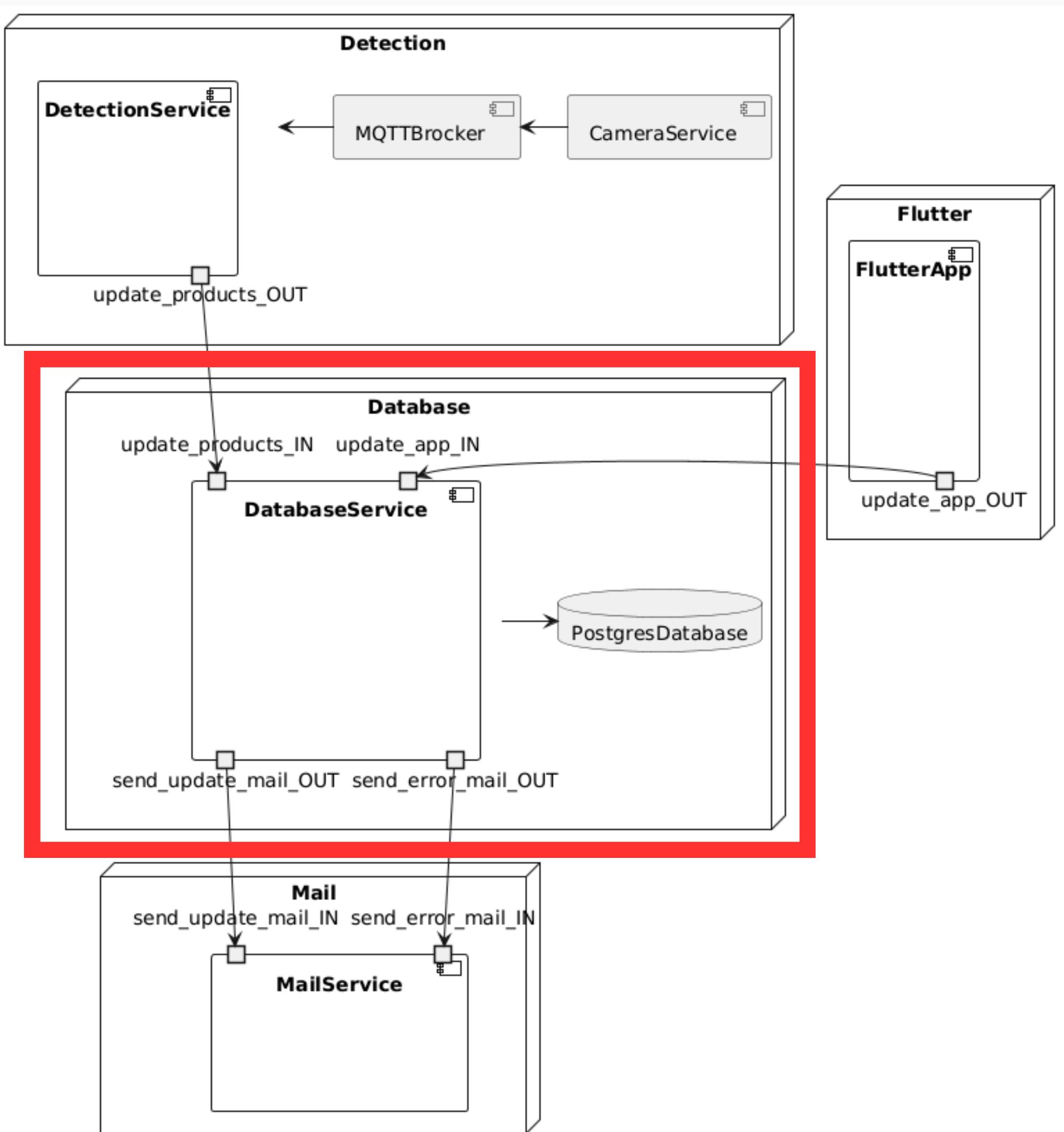
Projektstruktur

Detection-Service



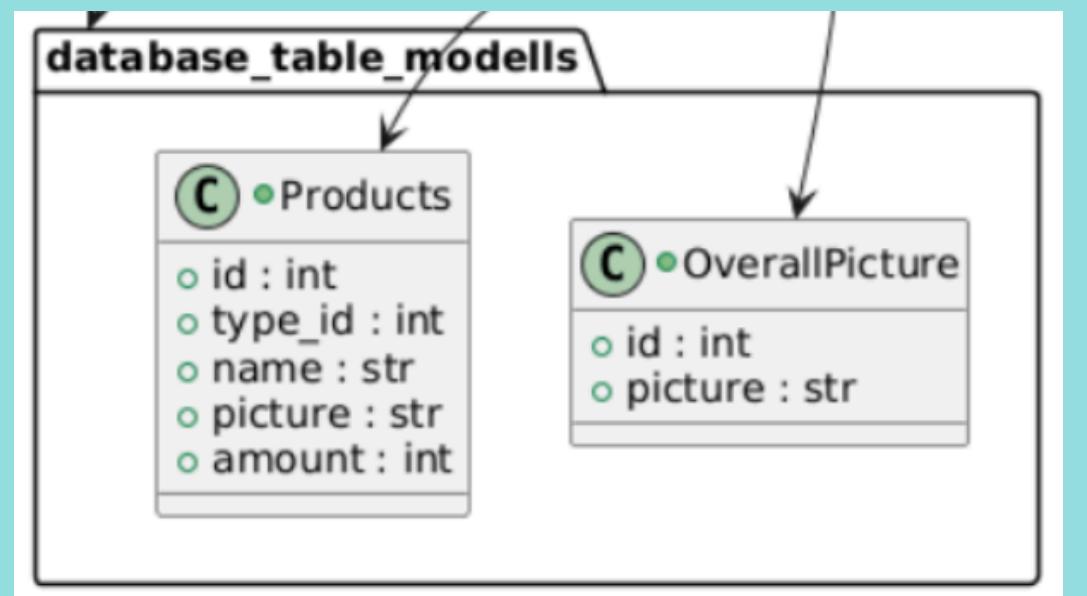
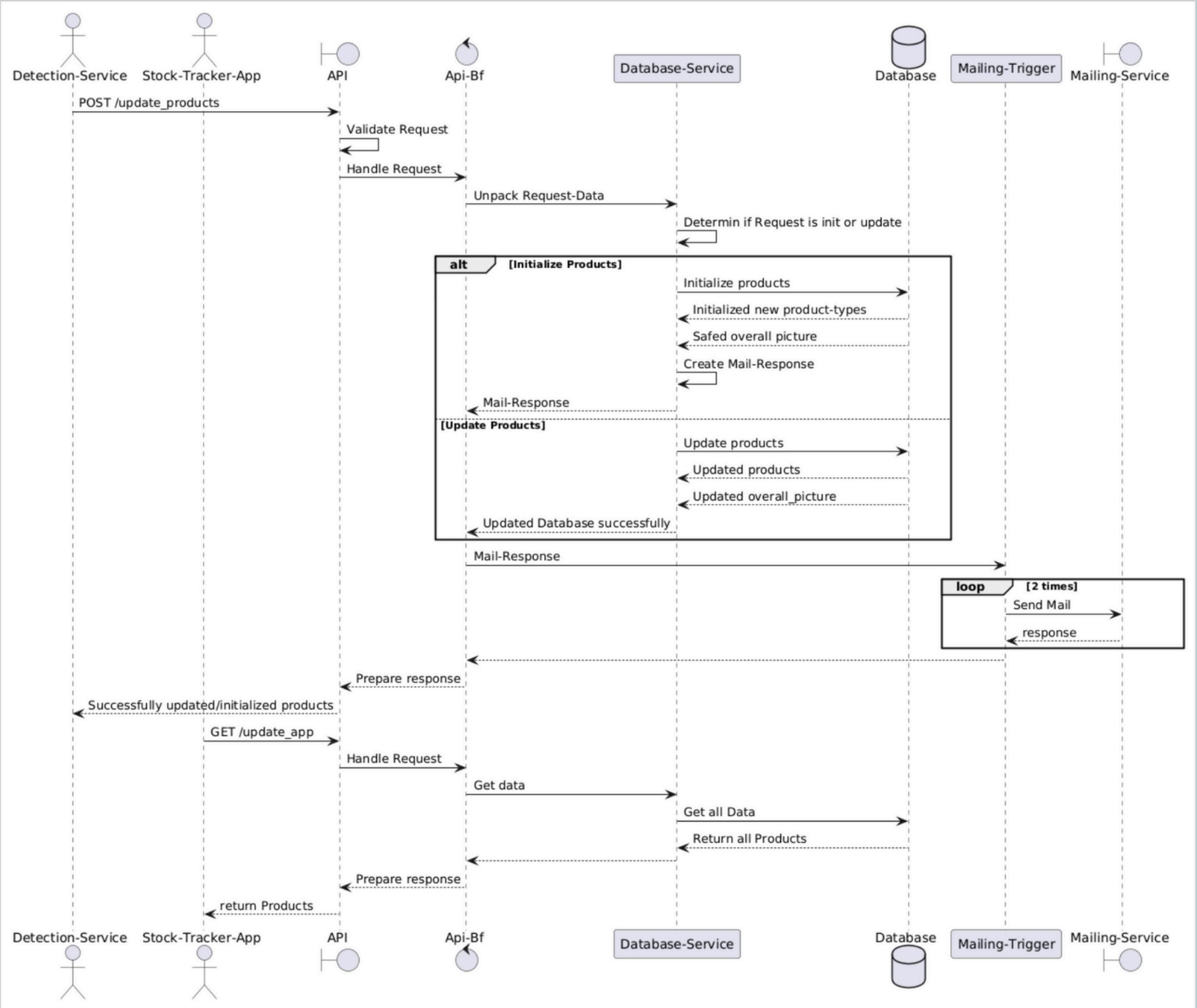
Projektstruktur

Komponentendiagramm



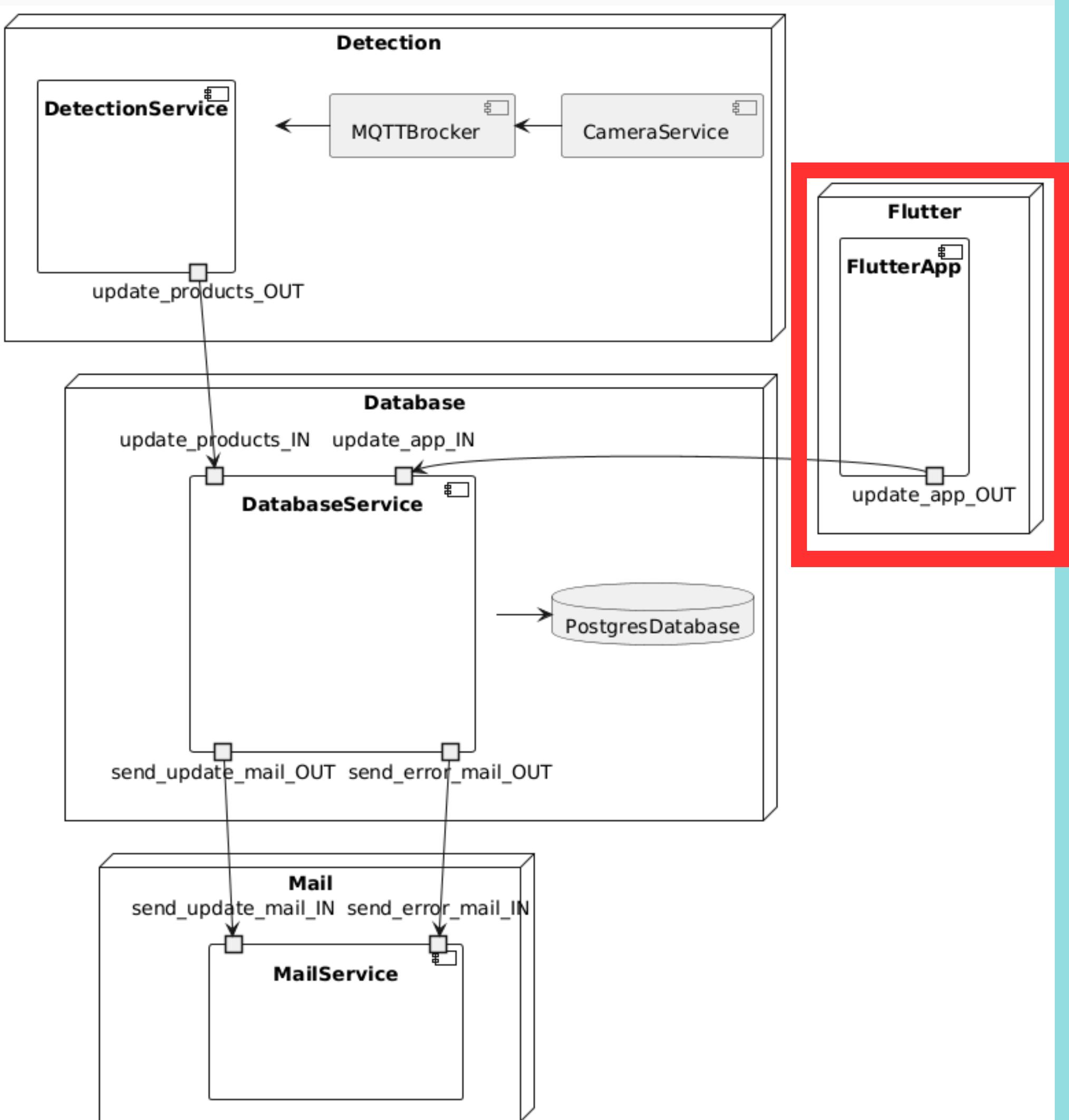
Projektstruktur

Database-Service + Database



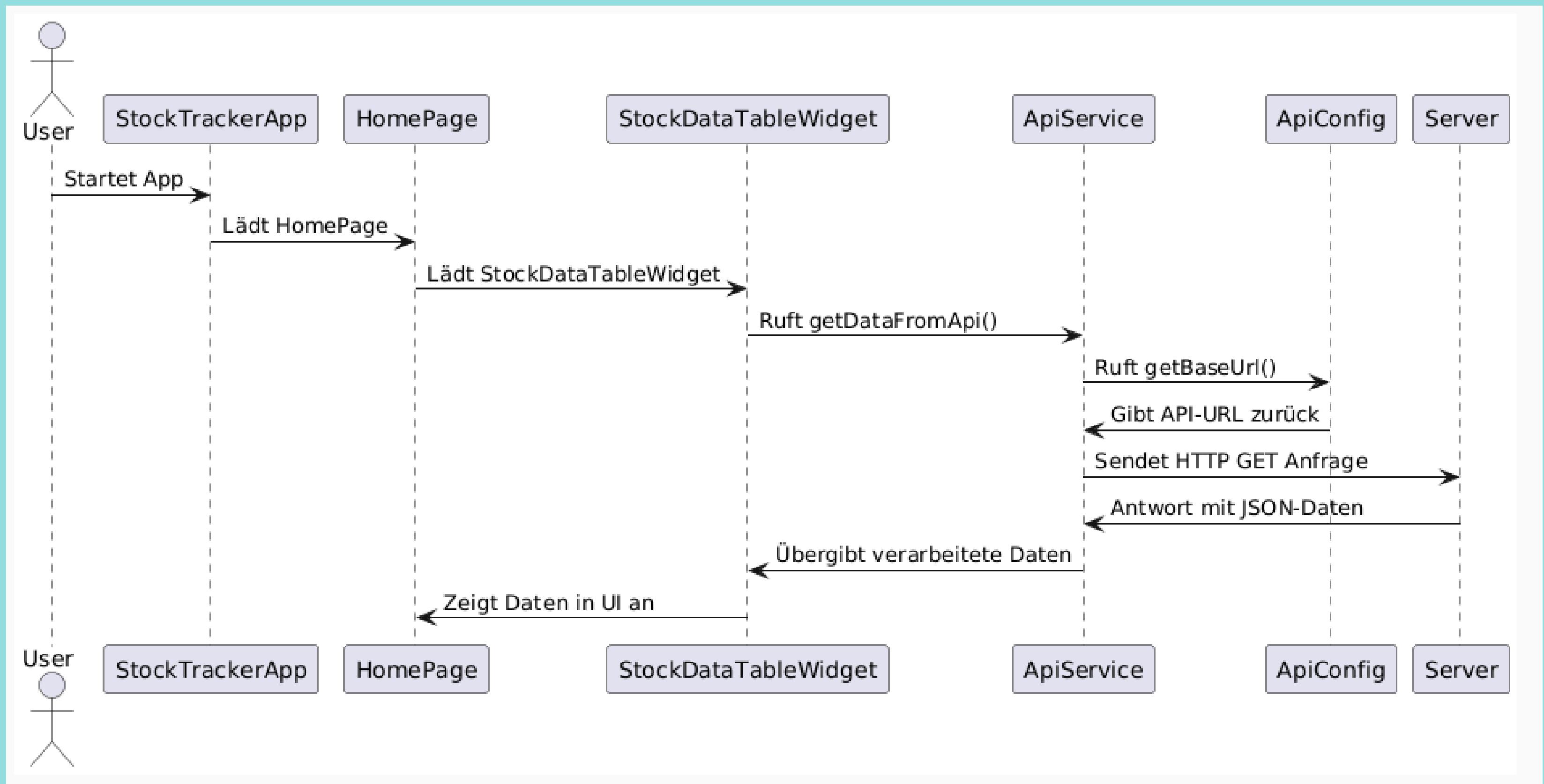
Projektstruktur

Komponentendiagramm



Projektstruktur

Flutter-App





Stock Tracker



sports ball

1



bottle

1



cup

3



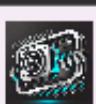
clock

1



Aktualisieren

Historie



Stock Tracker



baseball bat

0

No Picture

baseball glove

0

No Picture

skateboard

0

No Picture

surfboard

0

No Picture

tennis racket

0

No Picture

bottle

0

No Picture

wine glass

0

No Picture

cup

2



fork

0

No Picture

knife

0

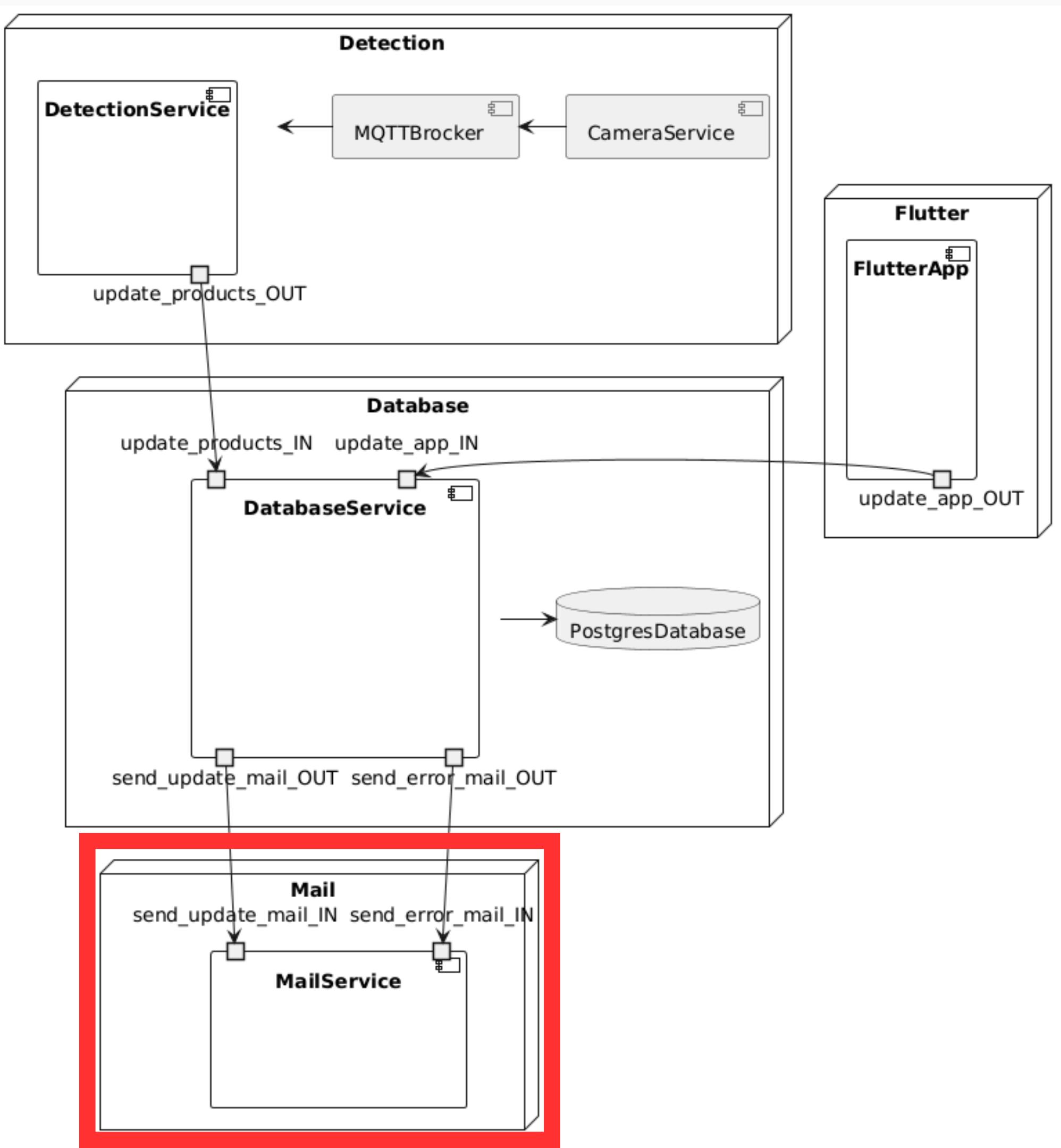
No Picture

Aktualisieren

Historie

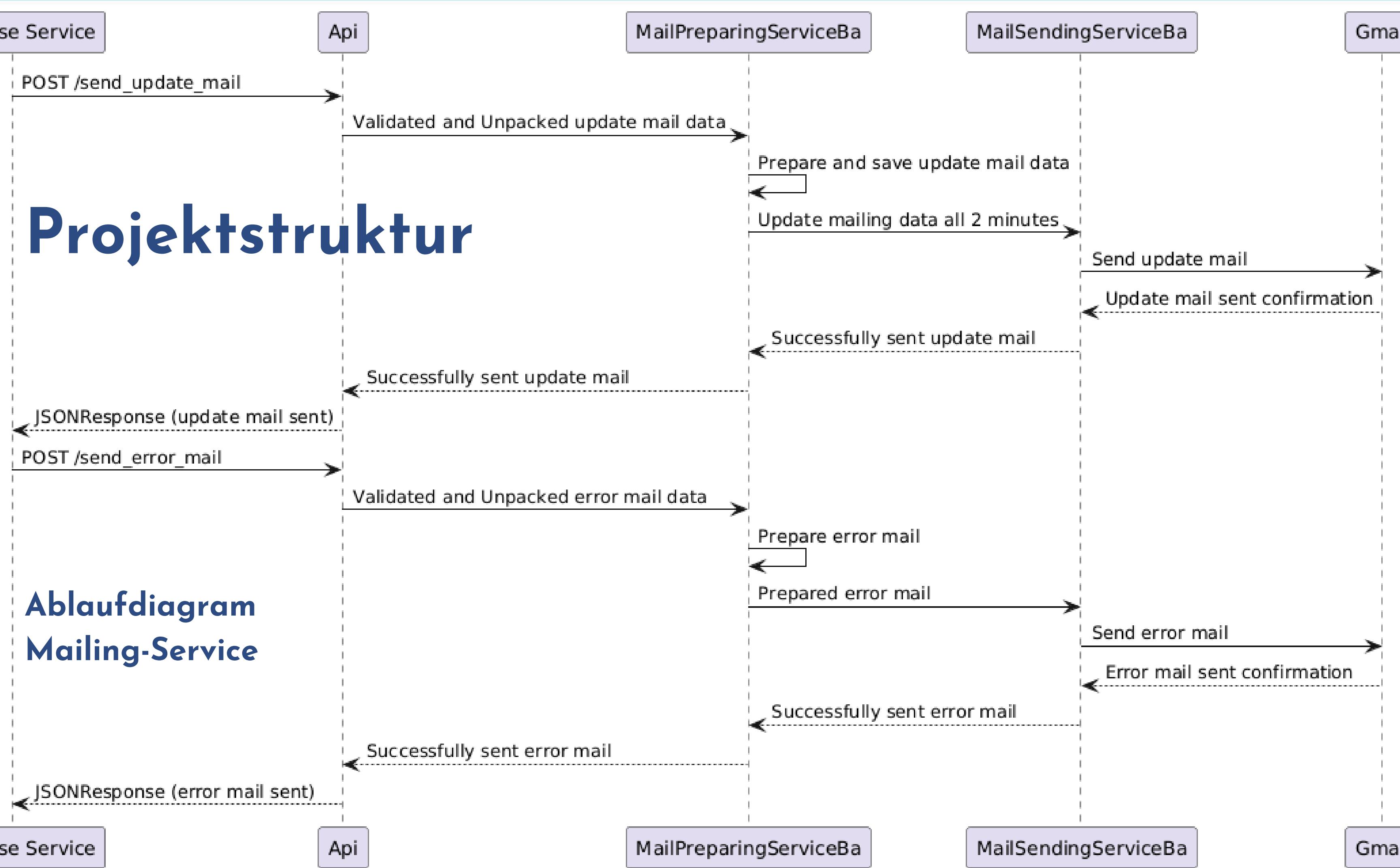
Projektstruktur

Komponentendiagramm



Projektstruktur

Ablaufdiagramm Mailing-Service





sysad.stock.tracker@gmail.com

to me ▾

5:47 PM (6 hours ago)



Products Successfully Added/Deleted

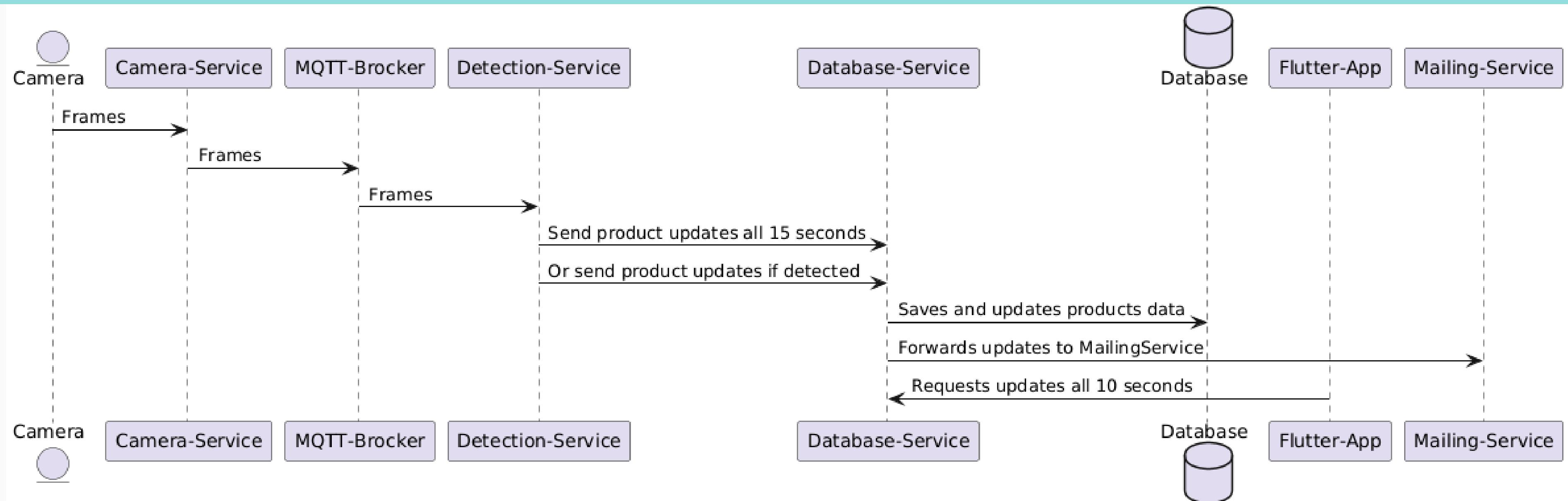
The following products were detected and added or deleted:

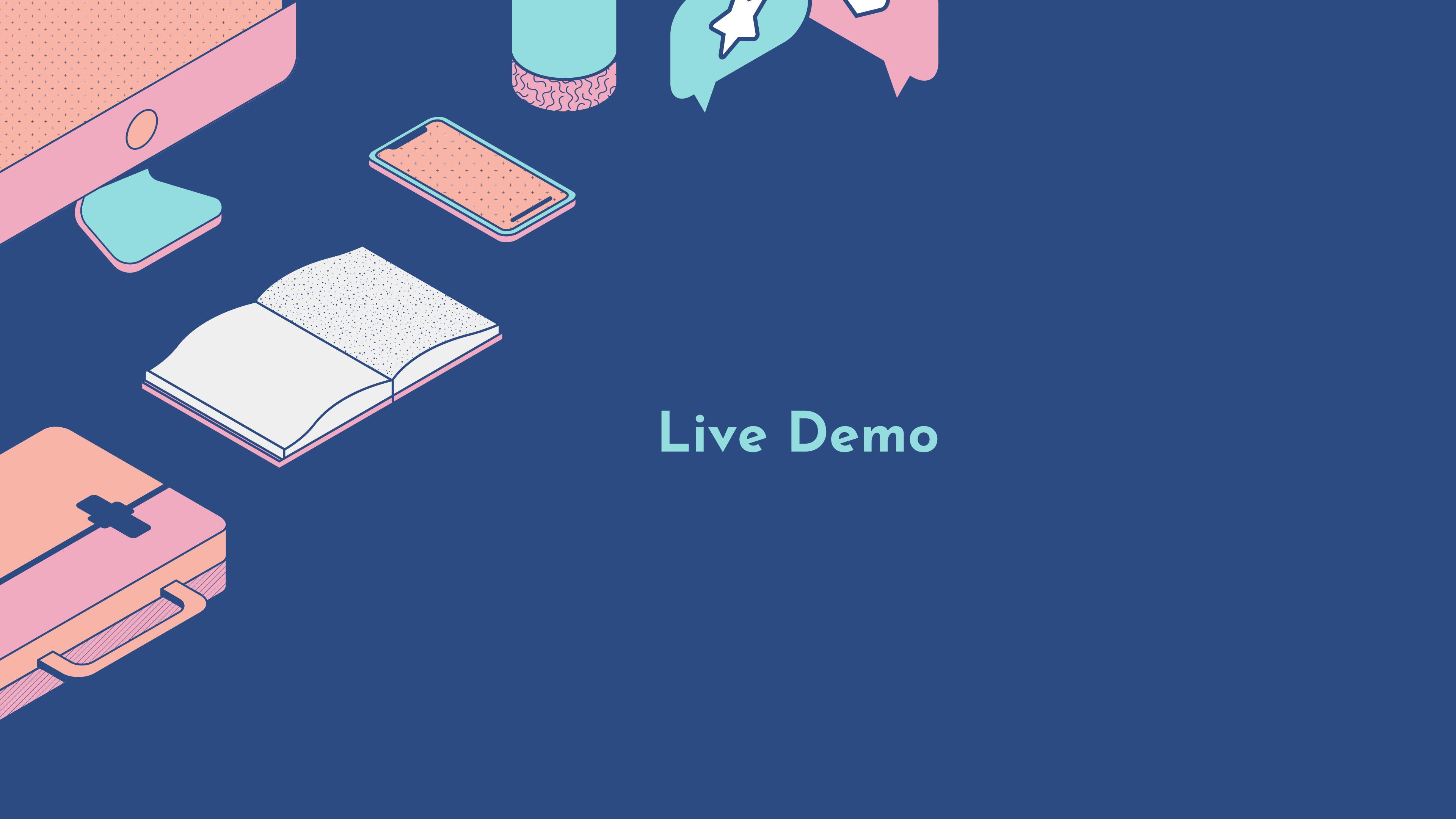
Product-ID	Product-Name	Changed Amount	Total Amount
32	sports ball	-1	0
74	clock	-1	0
41	cup	-2	0
39	bottle	-2	0

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Projektstruktur

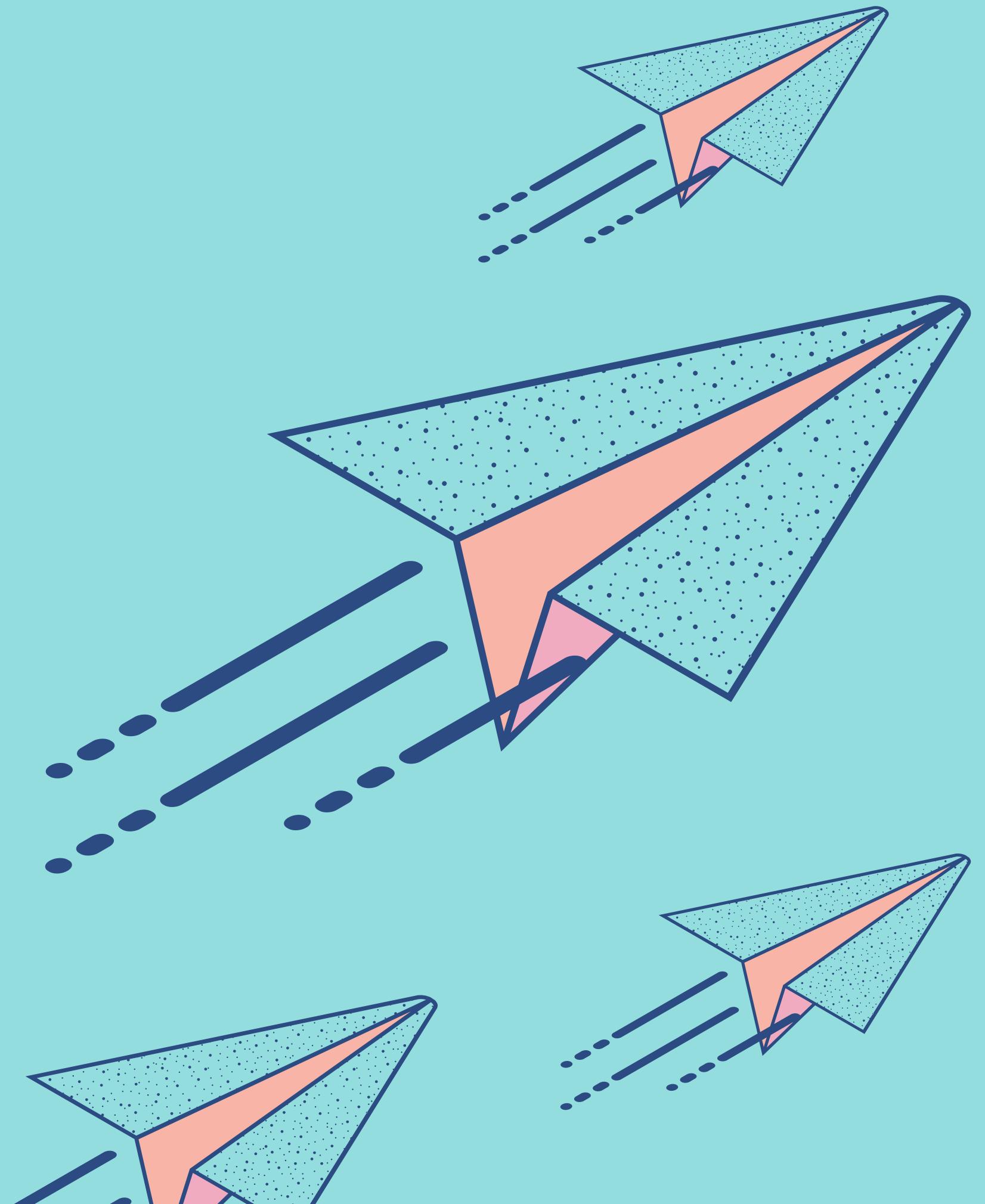
Ablauf-/Sequenzendiagramm





Live Demo

Fragen?





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