

SYSTEM ADMINISTRATION WS24/25

Stock Tracker

früher: Fridge Tracker

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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-Assitent

Projektmanagement

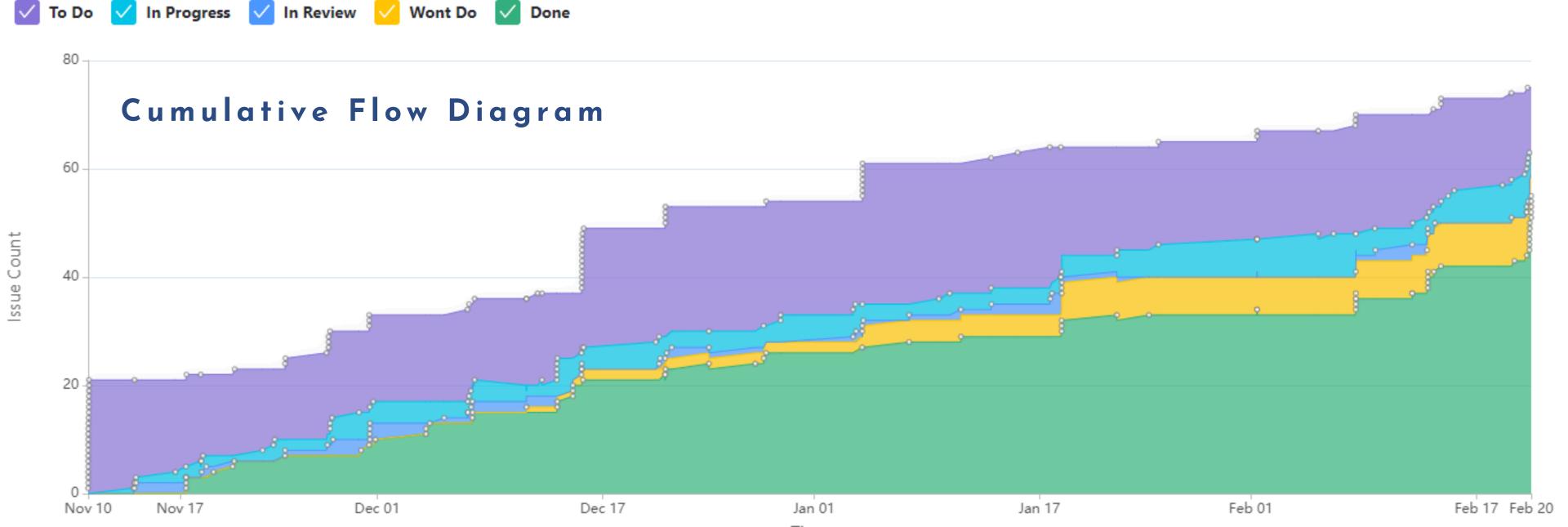
Scrum

- Sprint Review & Planing
- (Daily-)Sprints

Dev-Branch & Feature-Branches

Jira-Tickets

Code-Review: min 1 Reviewer/MR





Schwierigkeiten

Sprint Overcommitment

Absprache Schnittstellen-Kommunikation

Yolo Modell

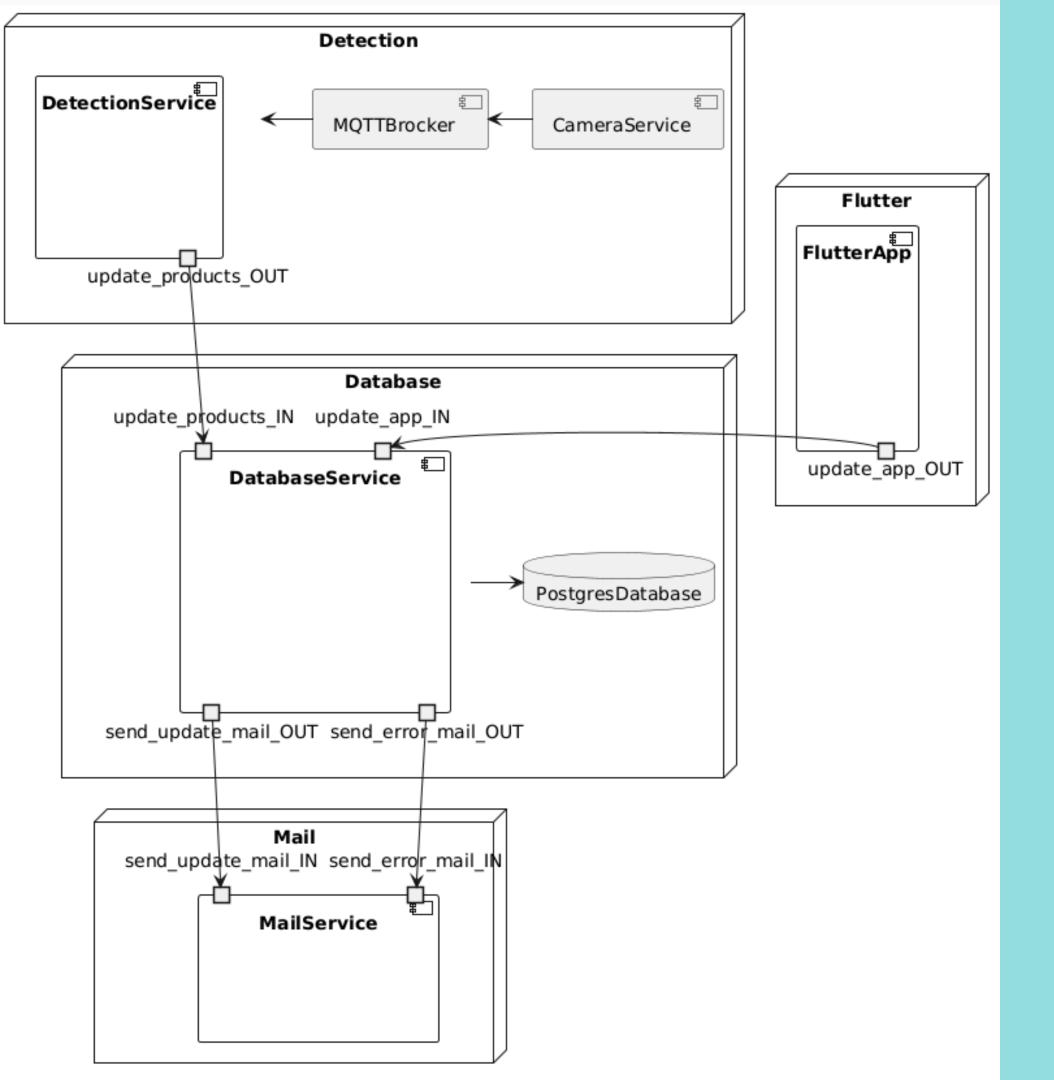
Namenskonvention

Ausblick

Mehr Kameras einbinden

Performance verbessern

History Tracking



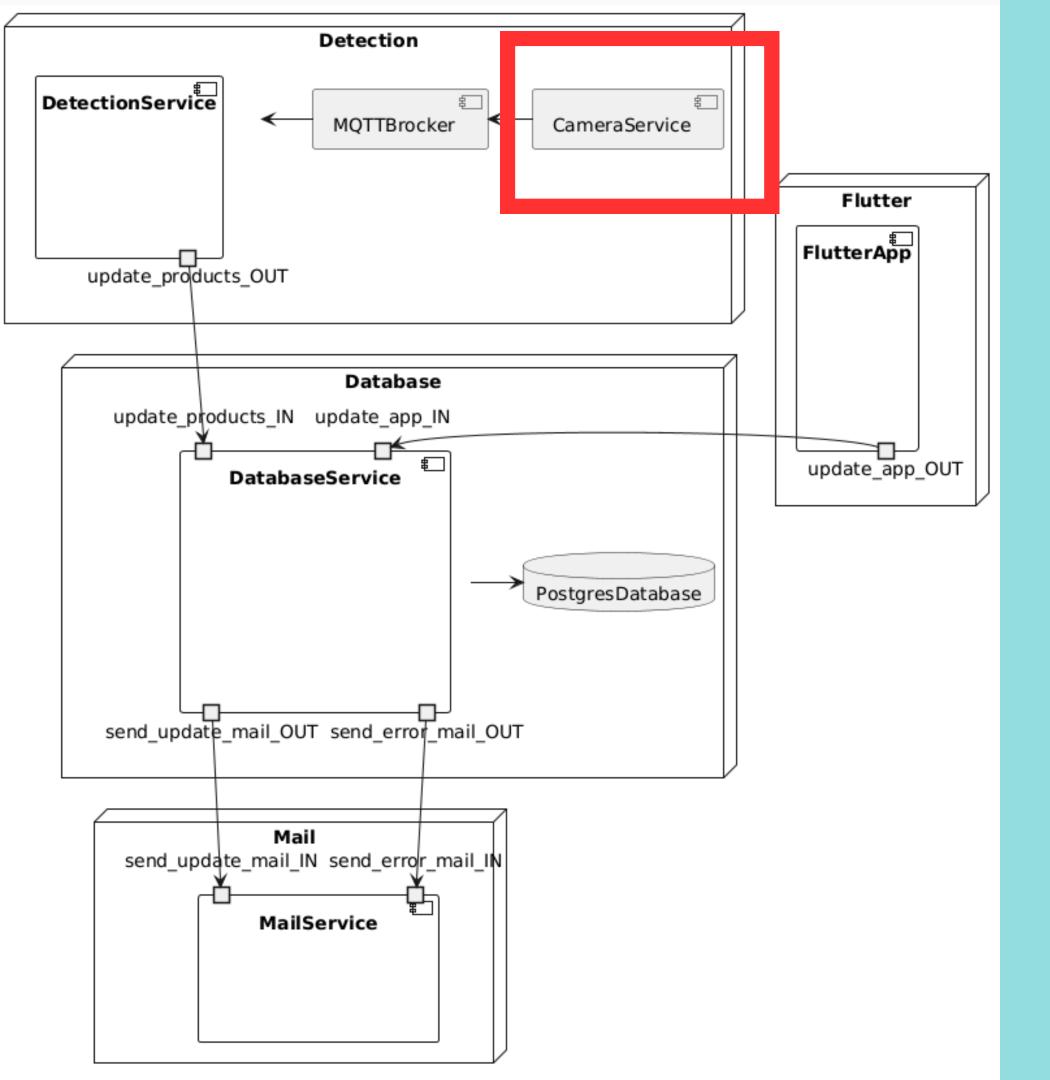
Komponentendiagram

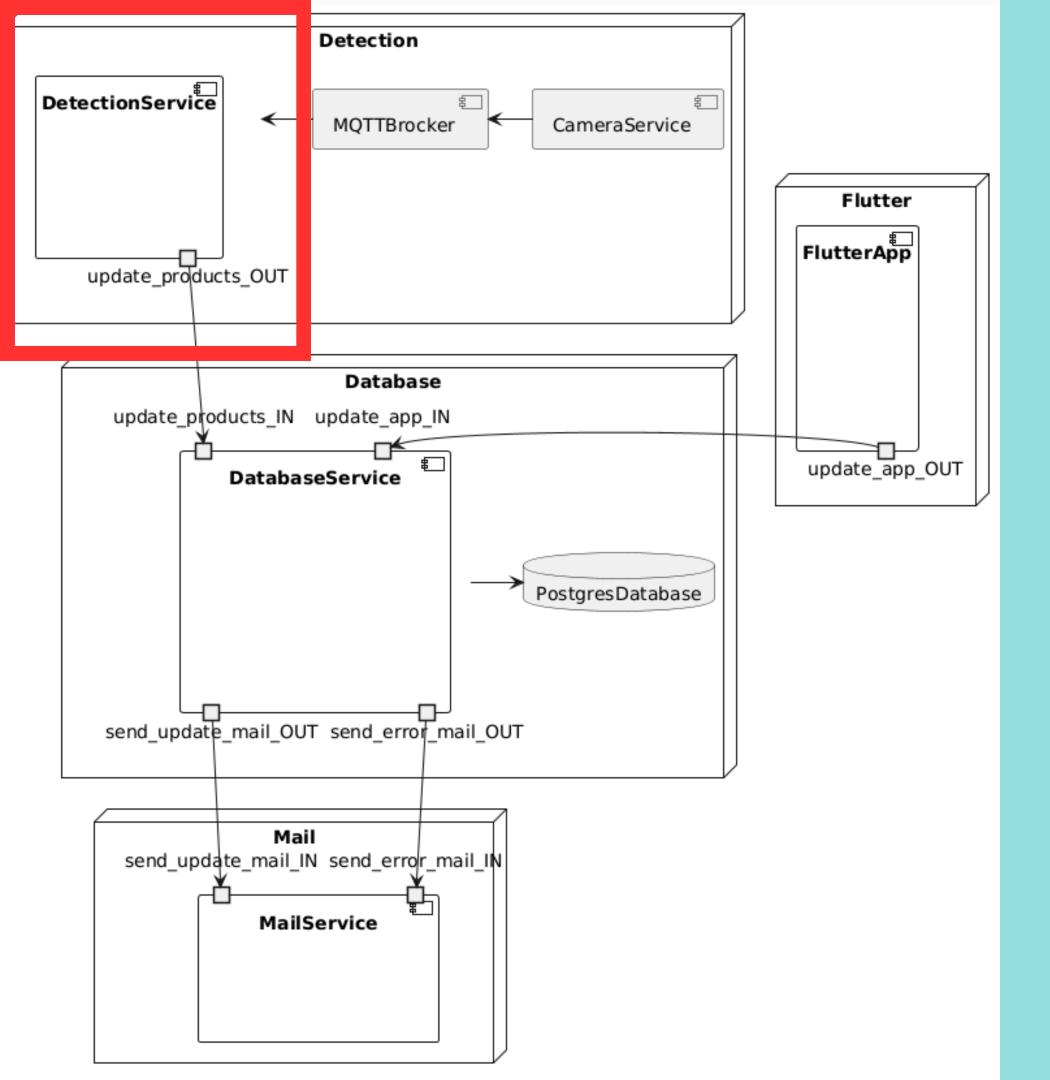
Docker

Python und Flutter

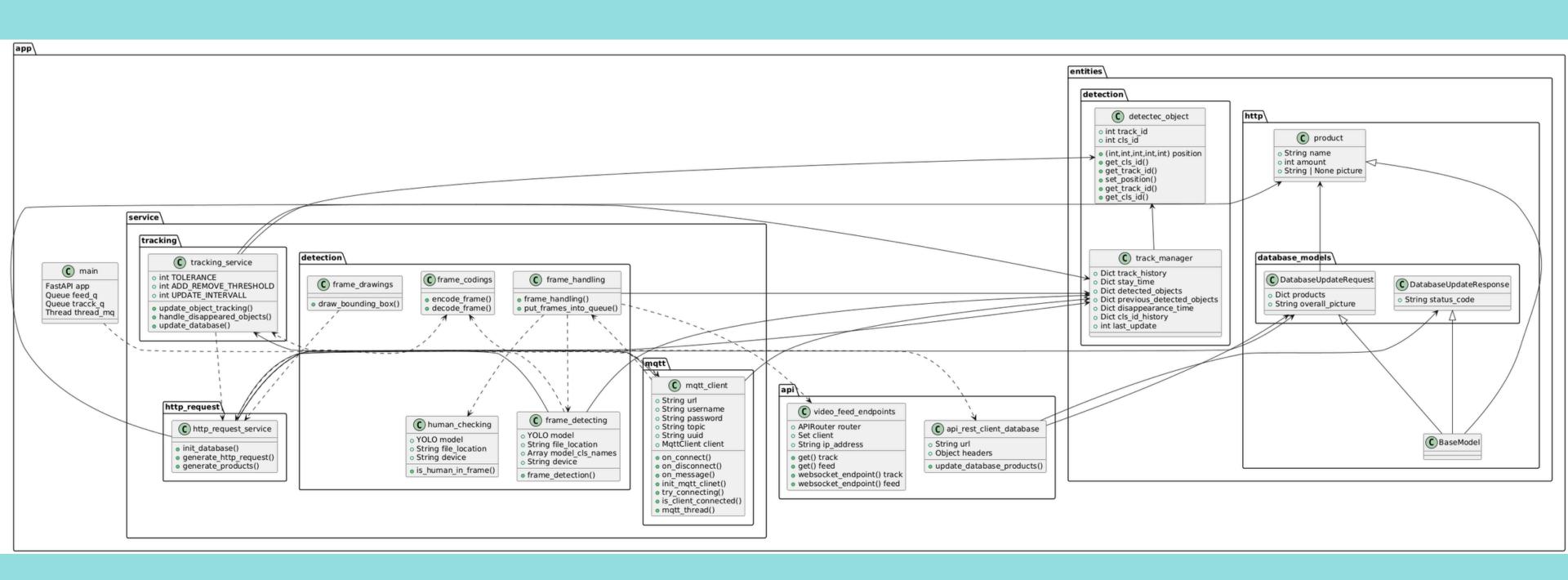
REST und MQTT

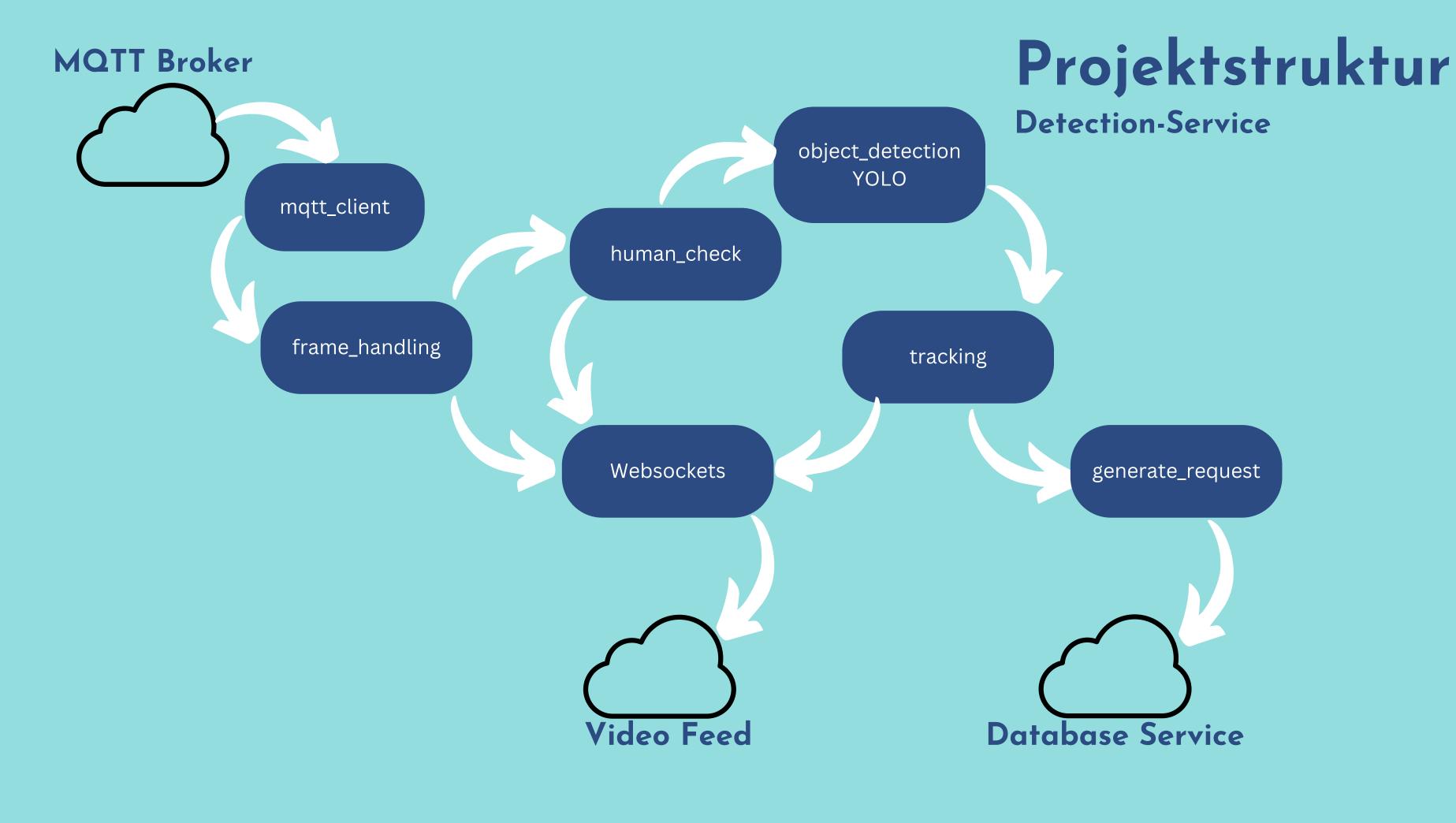
PostgreSQL

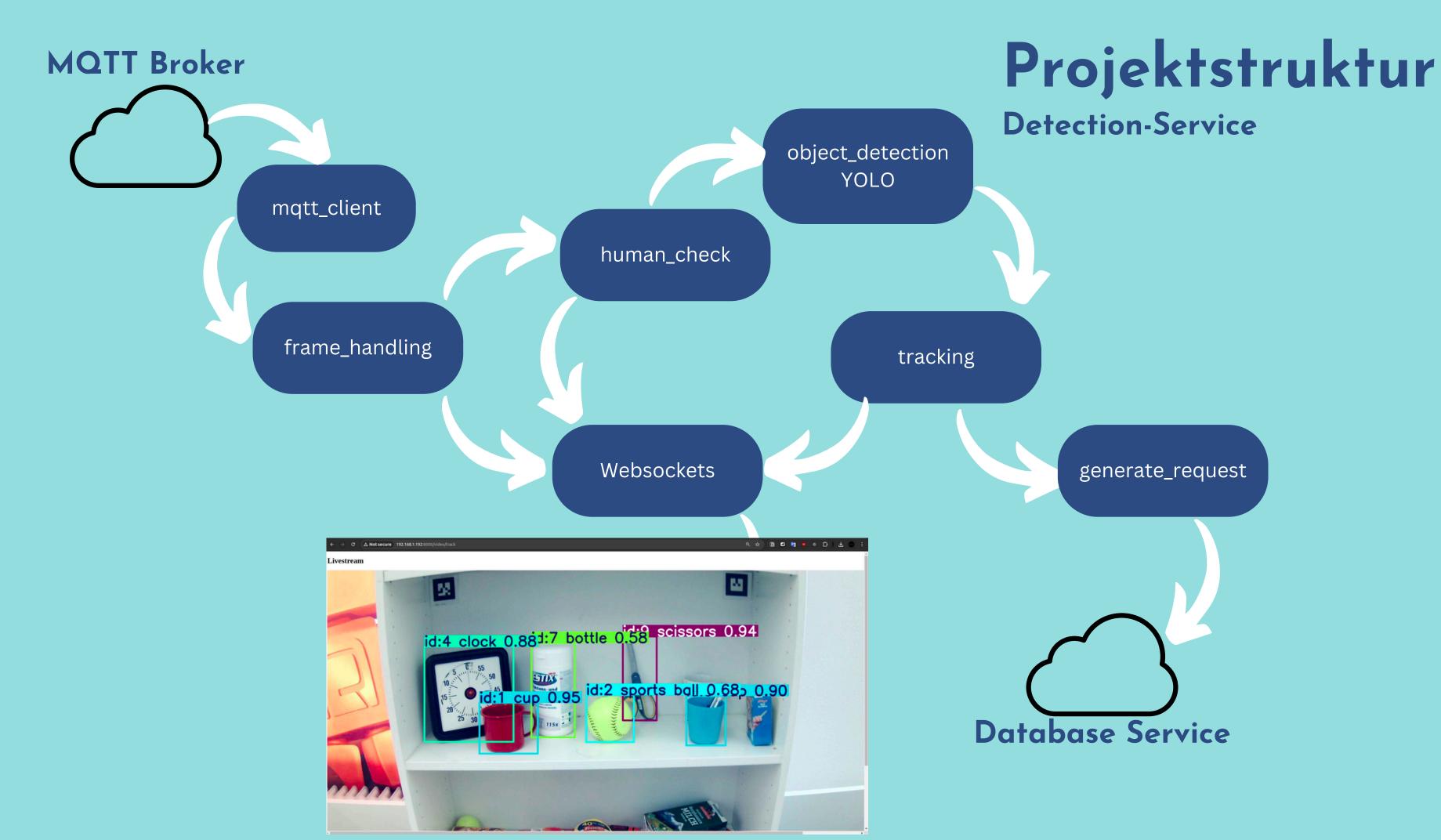


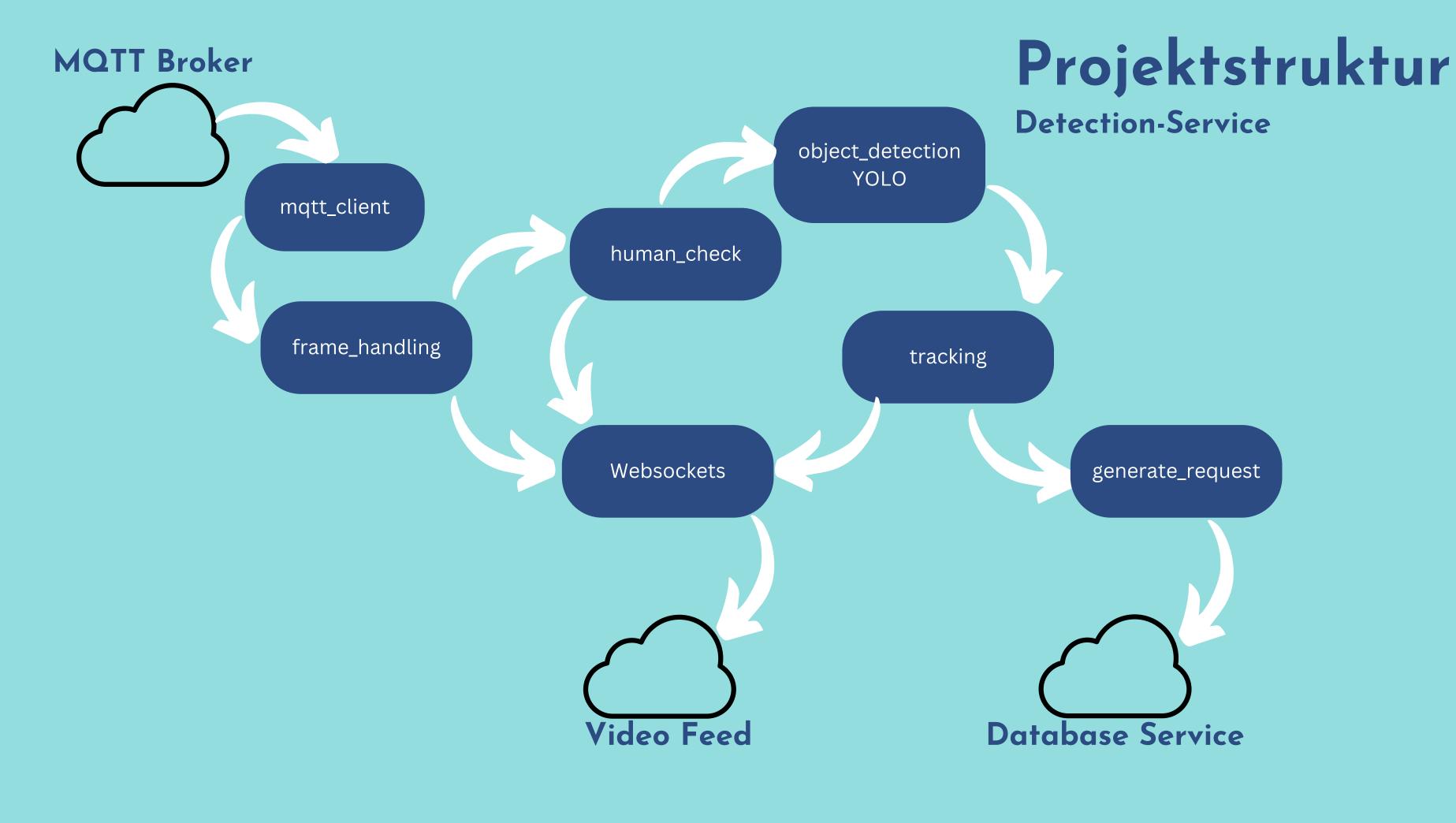


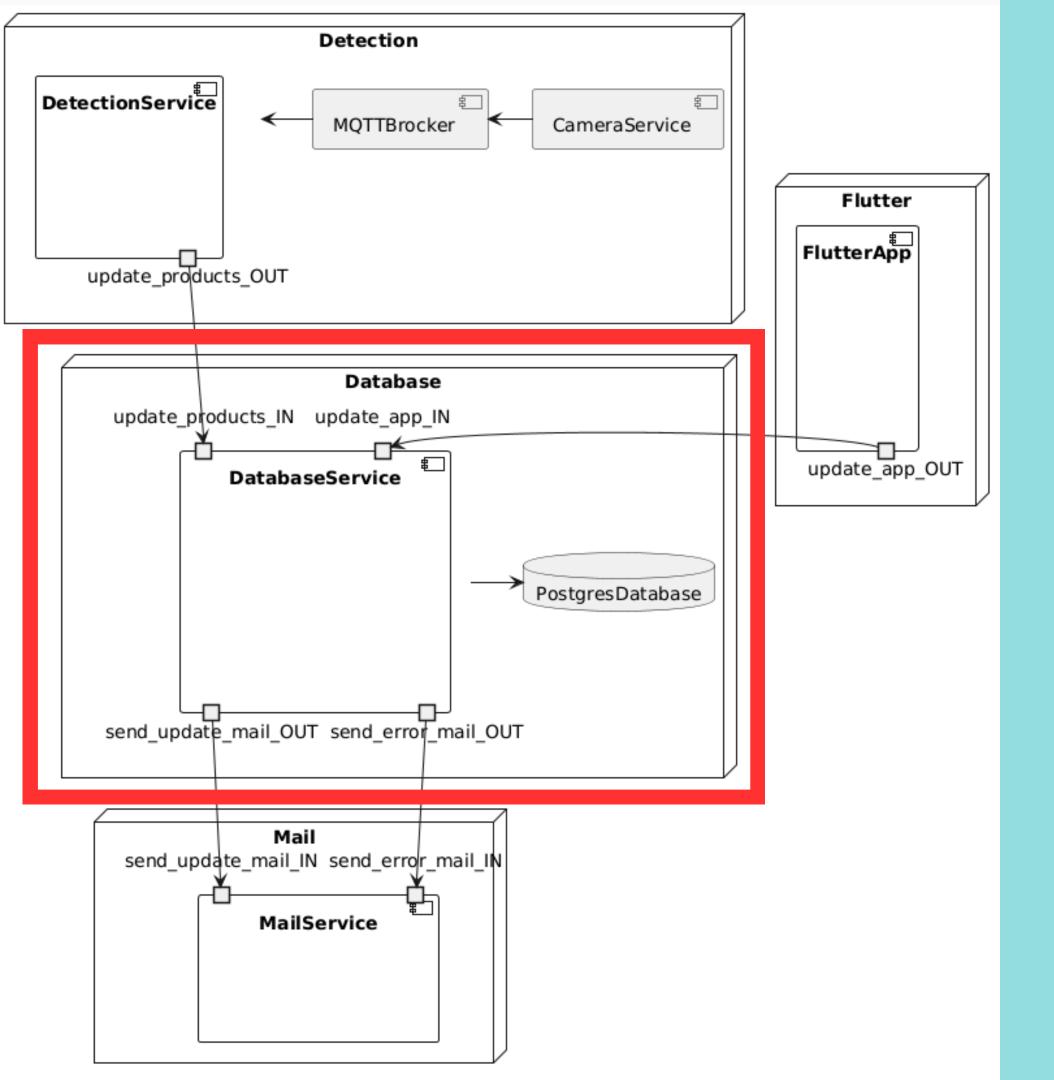
Detection-Service

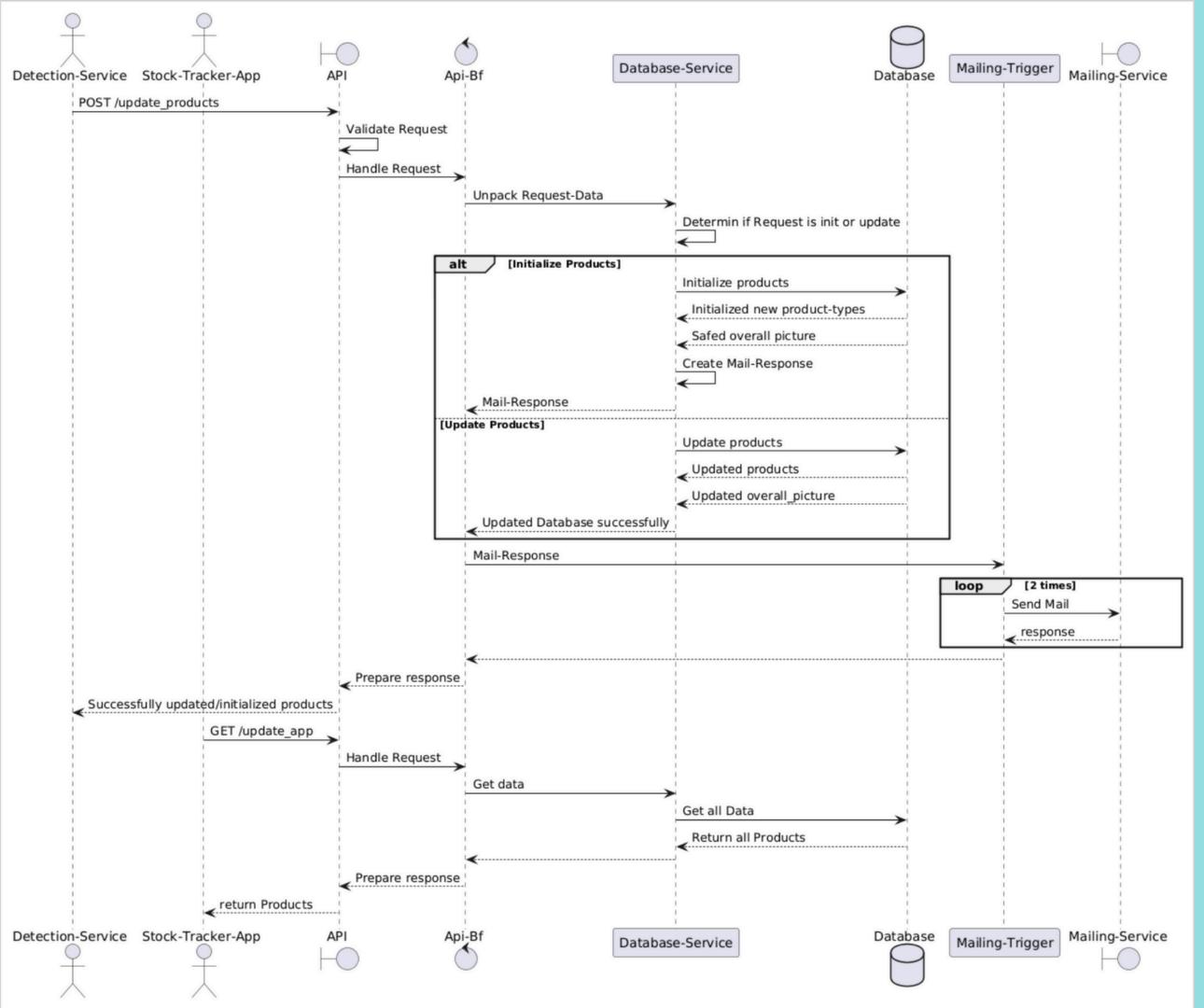






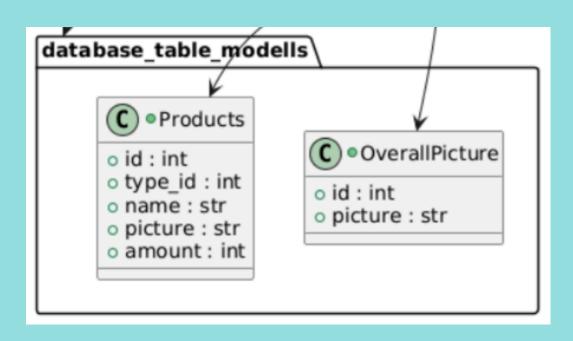


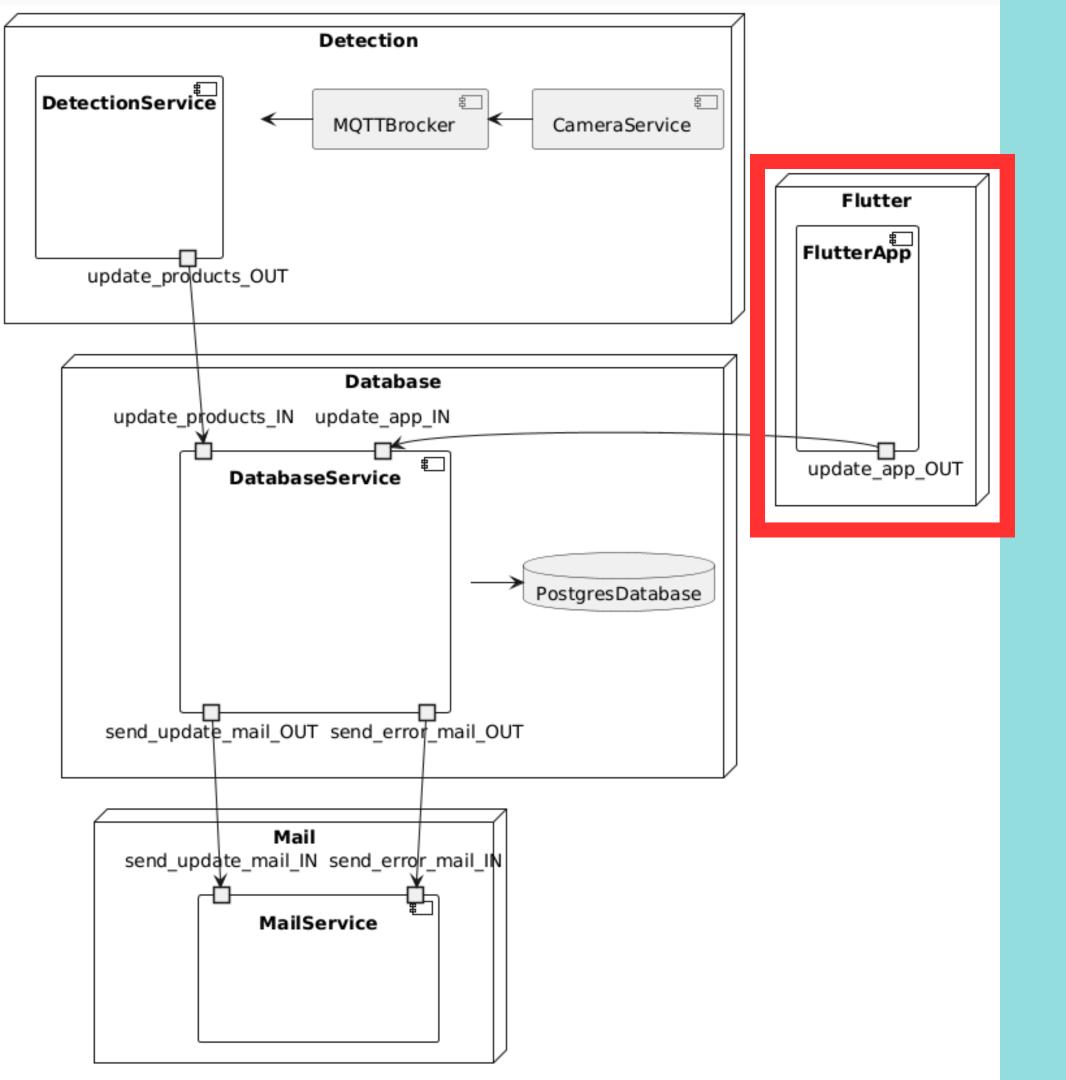




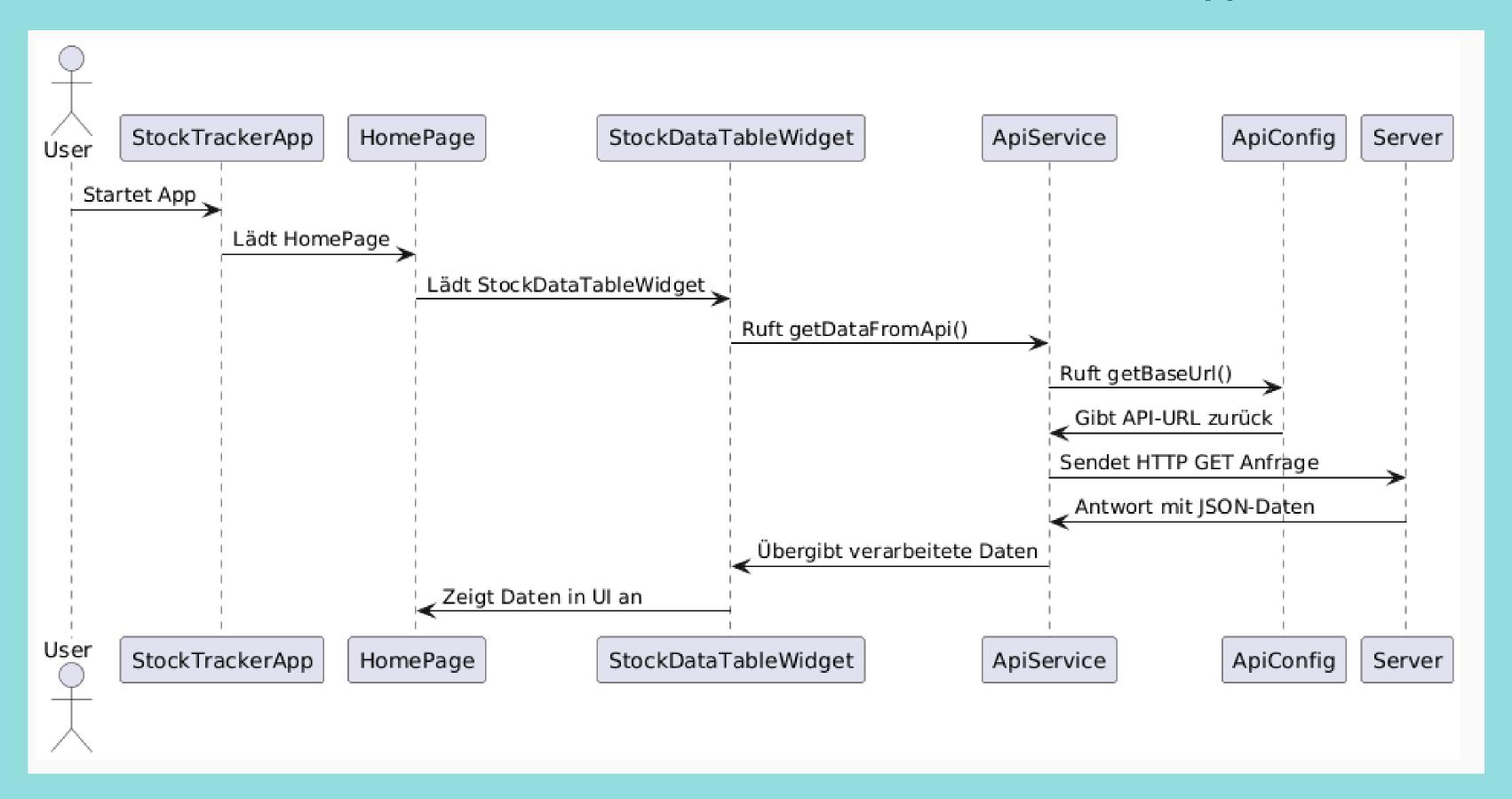
Database-Service + Database





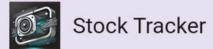


Flutter-App















~ Aktualisieren







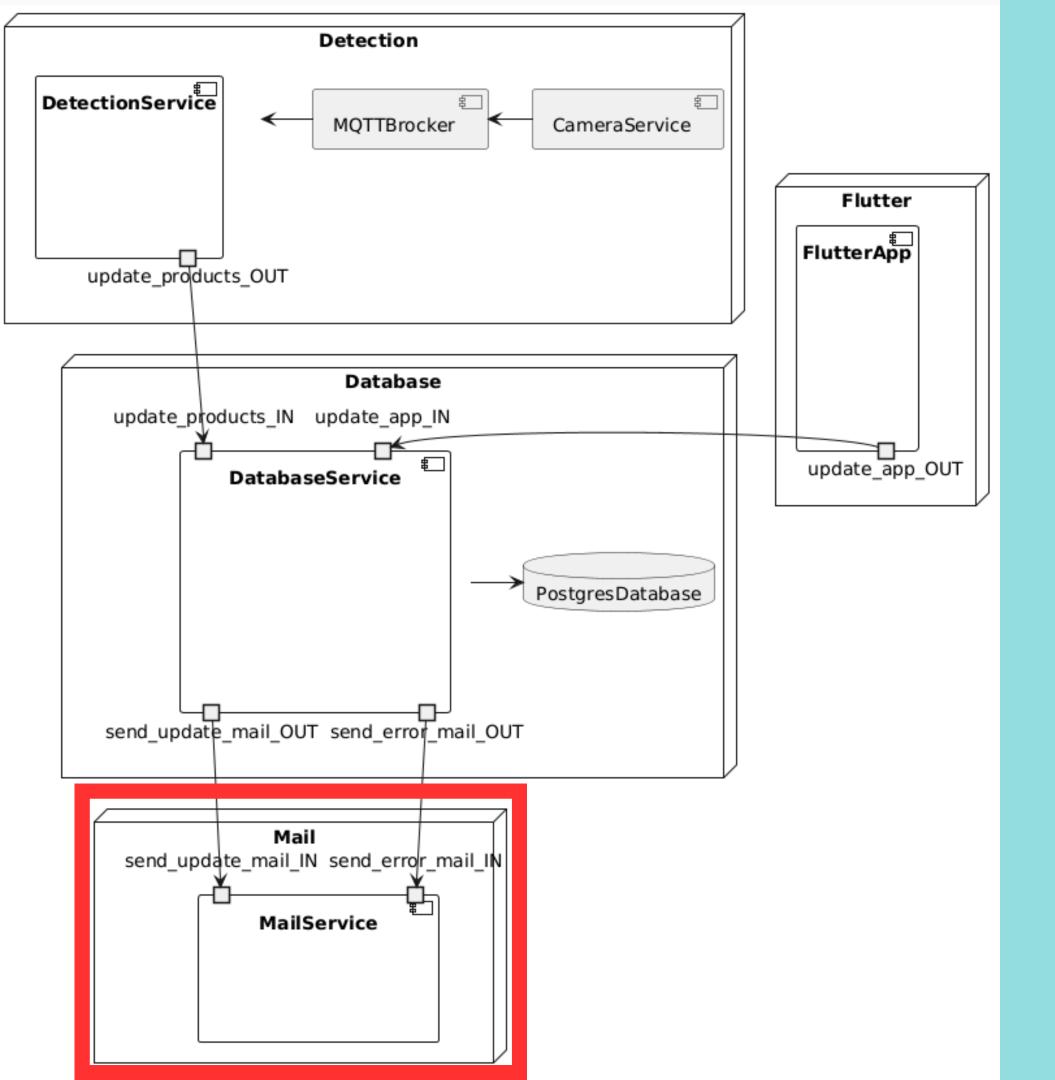


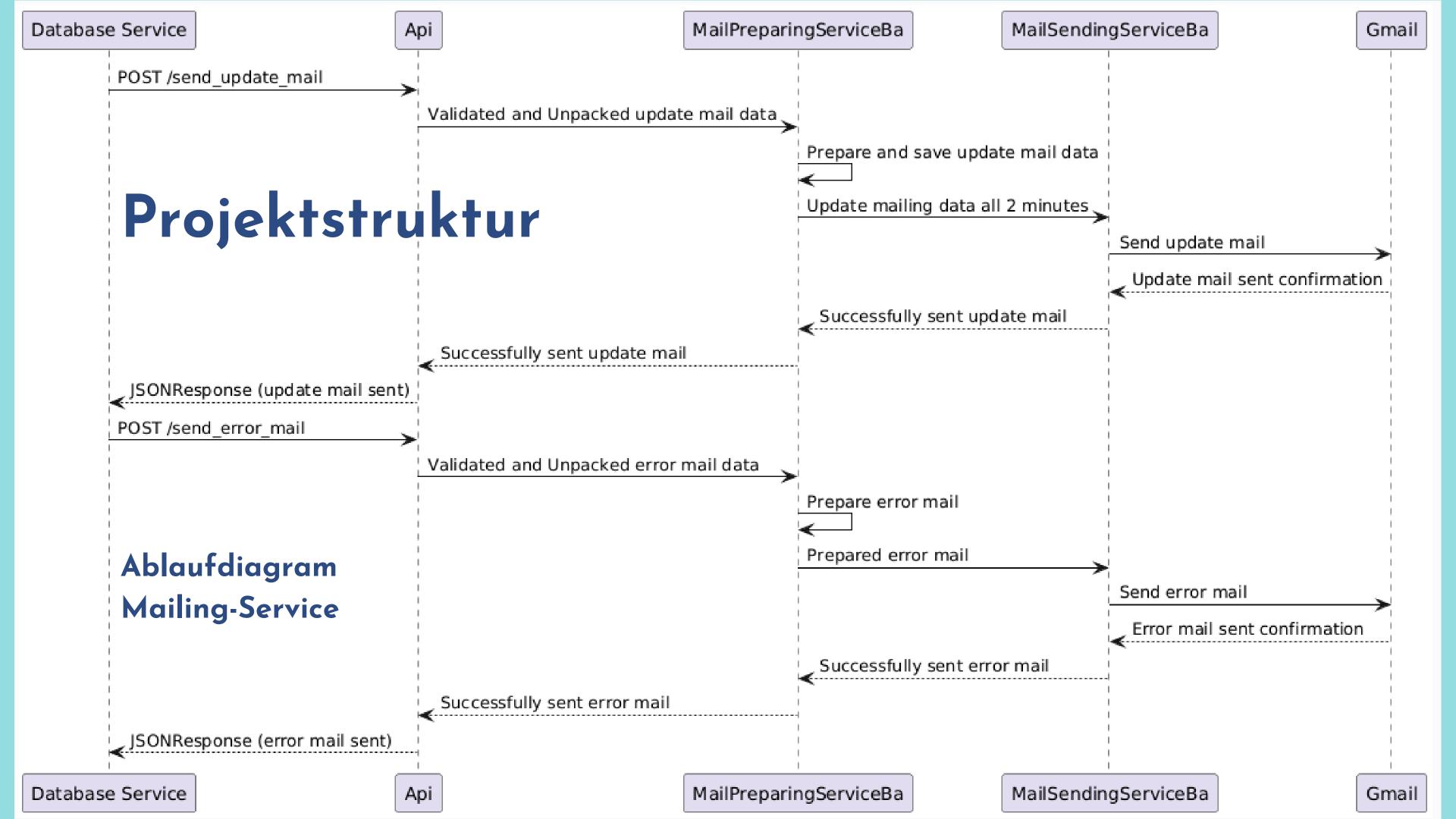
Stock Tracker

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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







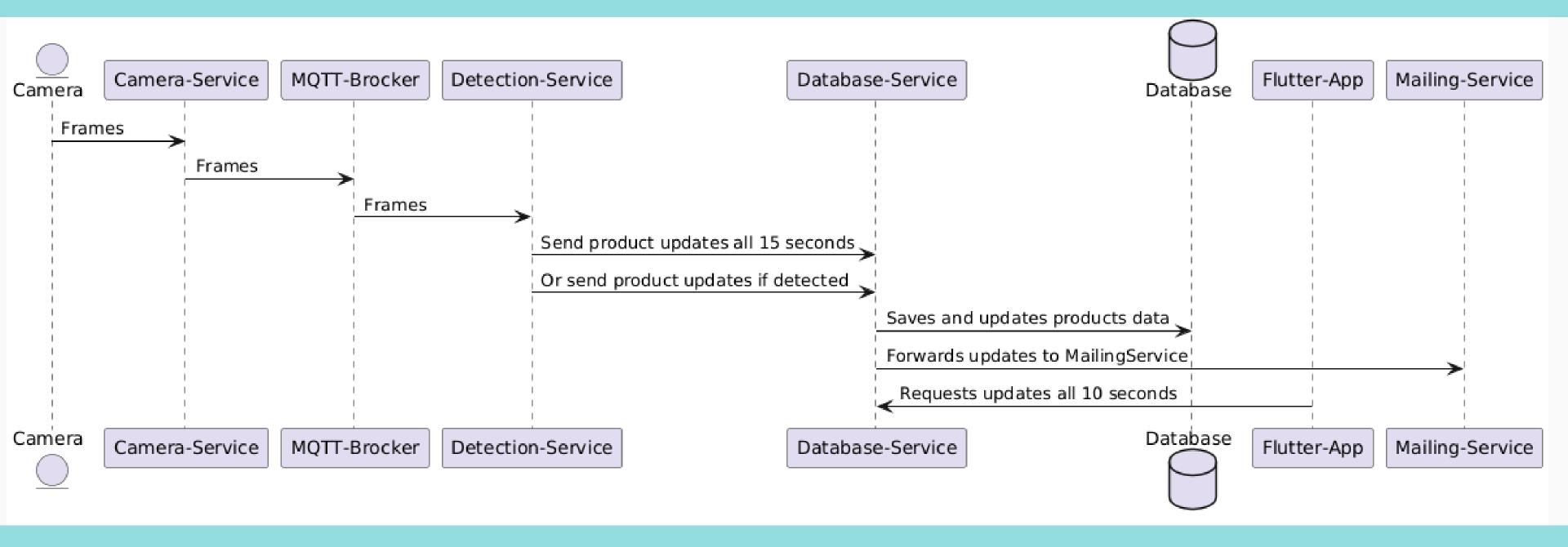


Products Successfully Added/Deleted

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

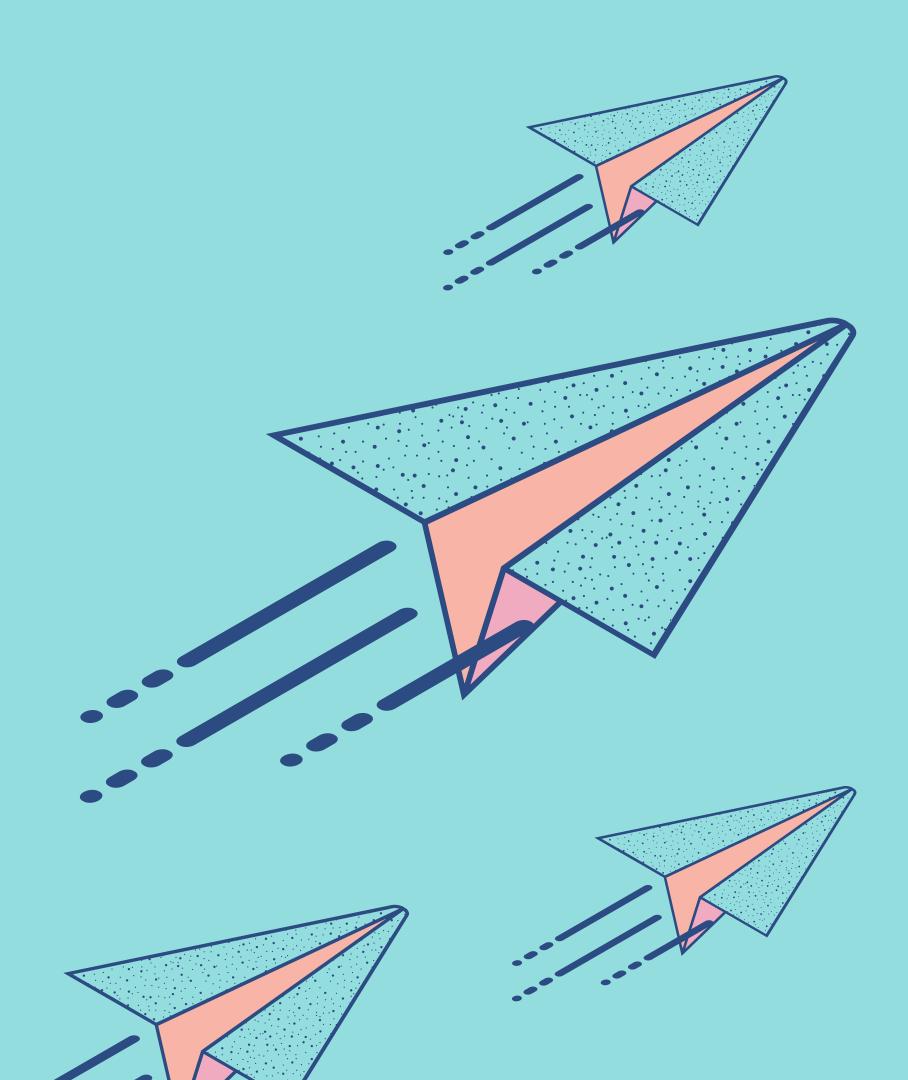
Ablauf-/Sequenzendiagram





Fragen?







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