



Rebound: A Platform for Sustainable Fashion and Social Impact

Tackling clothing waste through digital innovation. Creating circular fashion solutions that empower communities worldwide.



Project Overview



Project Rebound

ID: 15006605, Kubernetes
Workshop



Development Team

Omer Hadar and Dor Wachner



Instructor

Benny Rochwerger



REBOUND
Give Clothes a Second Life



THE ACADEMIC
of TEL AVIV-YAFFO



About Us

We're Omer Hadar and Dor Wachner, both 26, and lifelong friends since we first met on the basketball court at 13.

Our bond over basketball and a shared passion for vintage fashion led us to create **Rebound**—an innovative platform for sharing personal wardrobes.





The Problem: Fashion's Environmental Footprint

92M

Tons of Waste

Annual textile waste produced globally

12%

Recycling Rate

Only fraction gets recycled or reused

85%

Landfill Bound

Fast fashion accelerates accumulation



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Project Vision & Goals



Clothing Accessibility

Helping people who cannot afford new clothes gain access to quality second-hand items.



Environmental Impact

Reducing clothing waste and promoting a culture of sustainability.



Social Connection

Building a community where people can share, donate, and sell clothes in a collaborative space.



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System Architecture

Microservices Design

Independent services per functionality. Deployed using **Kubernetes** orchestration.

Technology Stack

Modern, scalable development approach.

- Frontend: React, Leaflet
- Backend: Node.js with TypeScript
- Database: MongoDB
- Deployment: Kubernetes + Docker
- MinIO, JWT, WebSockets, External APIs

Leaflet



JWT

MINIO

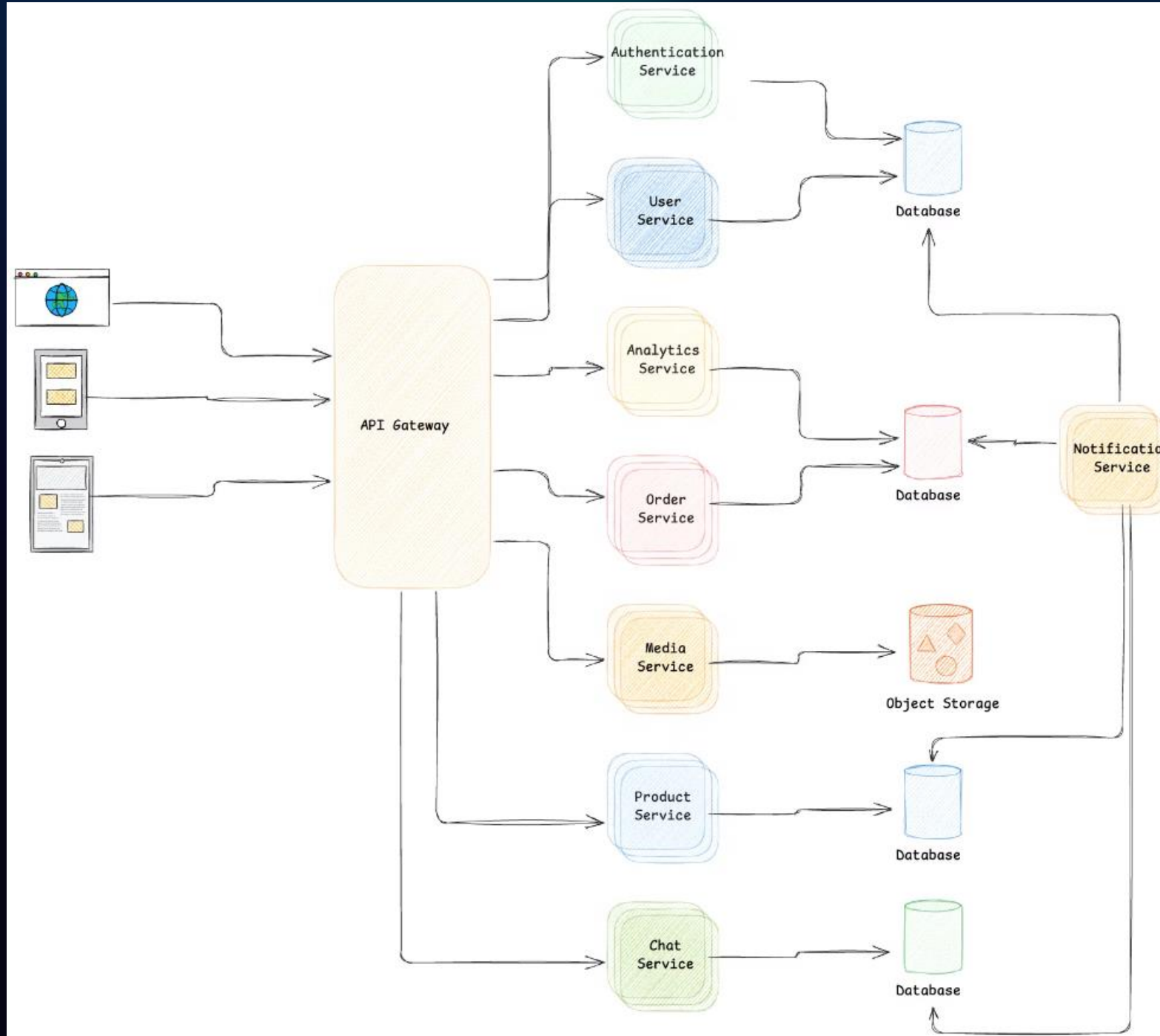


MongoDB



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Technology Solution: Why Kubernetes?



Automatic Scaling



Simplified Maintenance and Updates



Security



High Availability



Cost Optimization

Core Features



Share Clothes

Sell or donate
AI Automation

 Gemini



Browse

Gallery / Cards

Map



Chat

Real time



Statistics

Environmental impact
metrics



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Alternative Solutions & Our Edge



Enables faster evolution than traditional thrift stores, Facebook marketplace, or donation bins.



Questions?



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