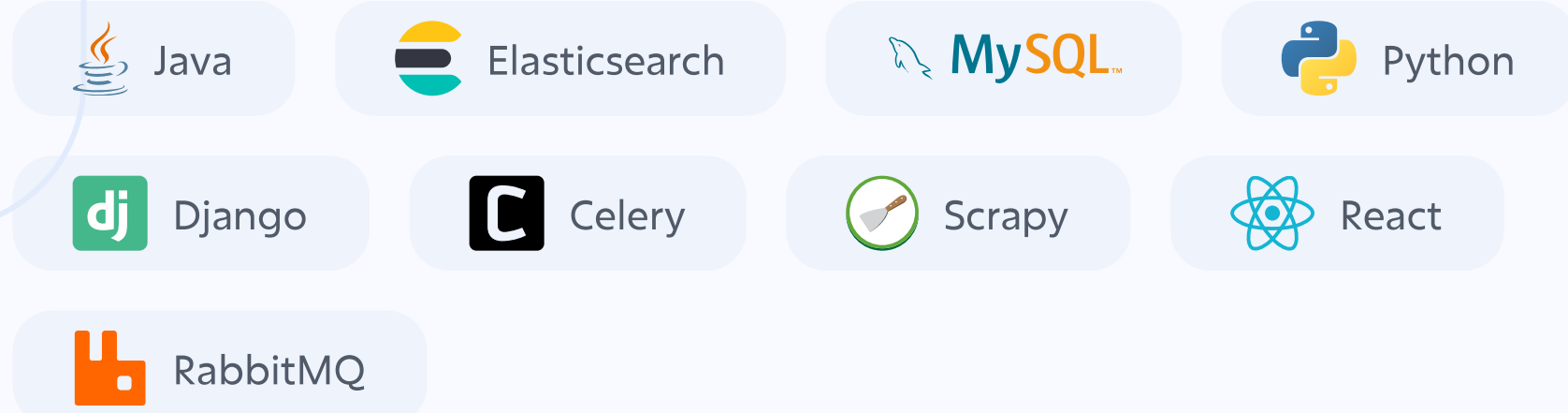


## Case study

# U-PAX

Architectural Overhaul: Optimizing Backend Systems for Seamless Shop Integration

### Technologies

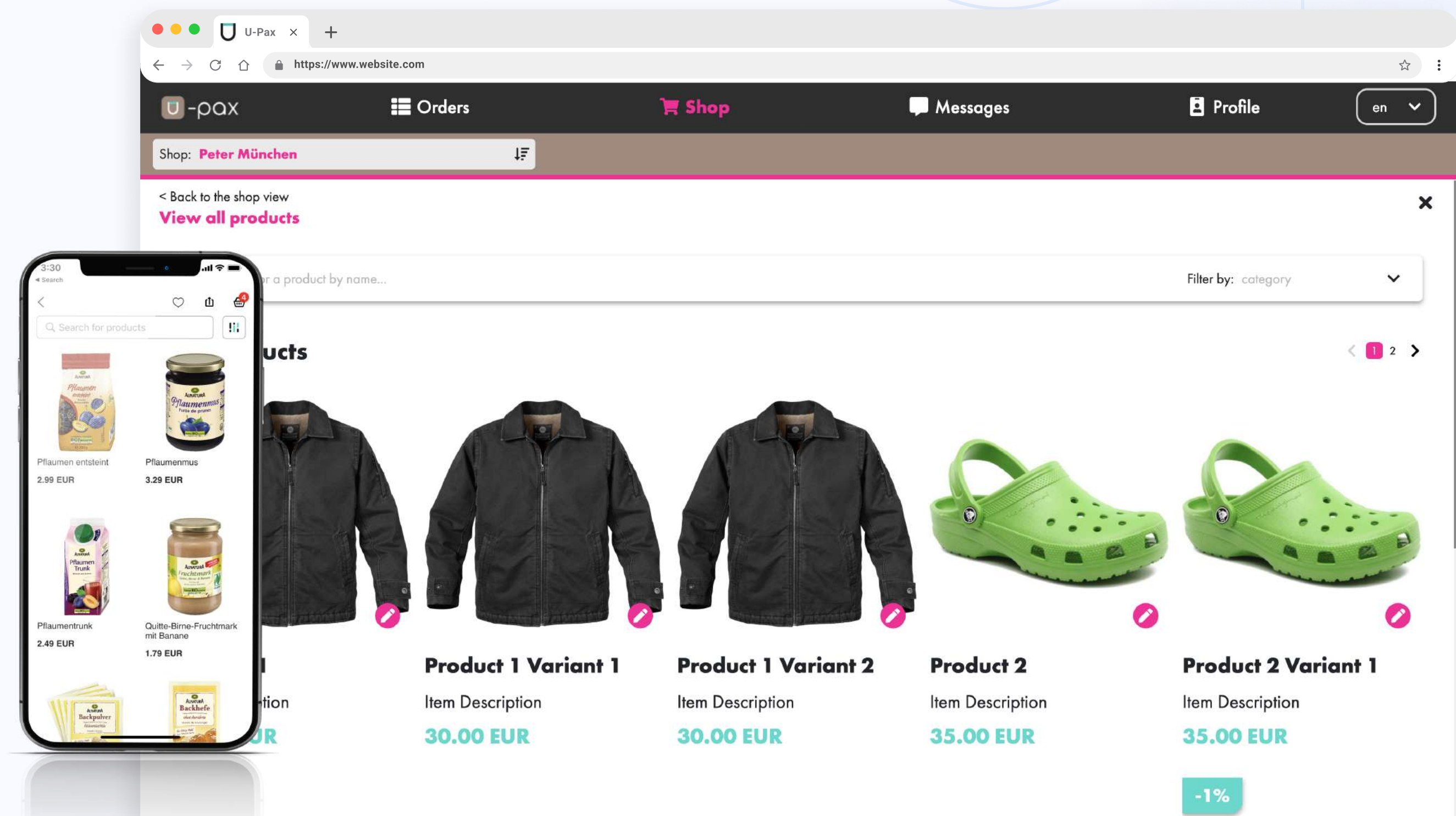


U-pax

Client since  
2020

Location  
Germany

Industry  
E-commerce



## About the client

Think of U-pax as an Etsy or eBay, but exclusively for local products. Since 2017, it's been the go-to platform for supporting and shopping from neighborhood sellers, merging the charm of local finds with the ease of online shopping.

Number of stores

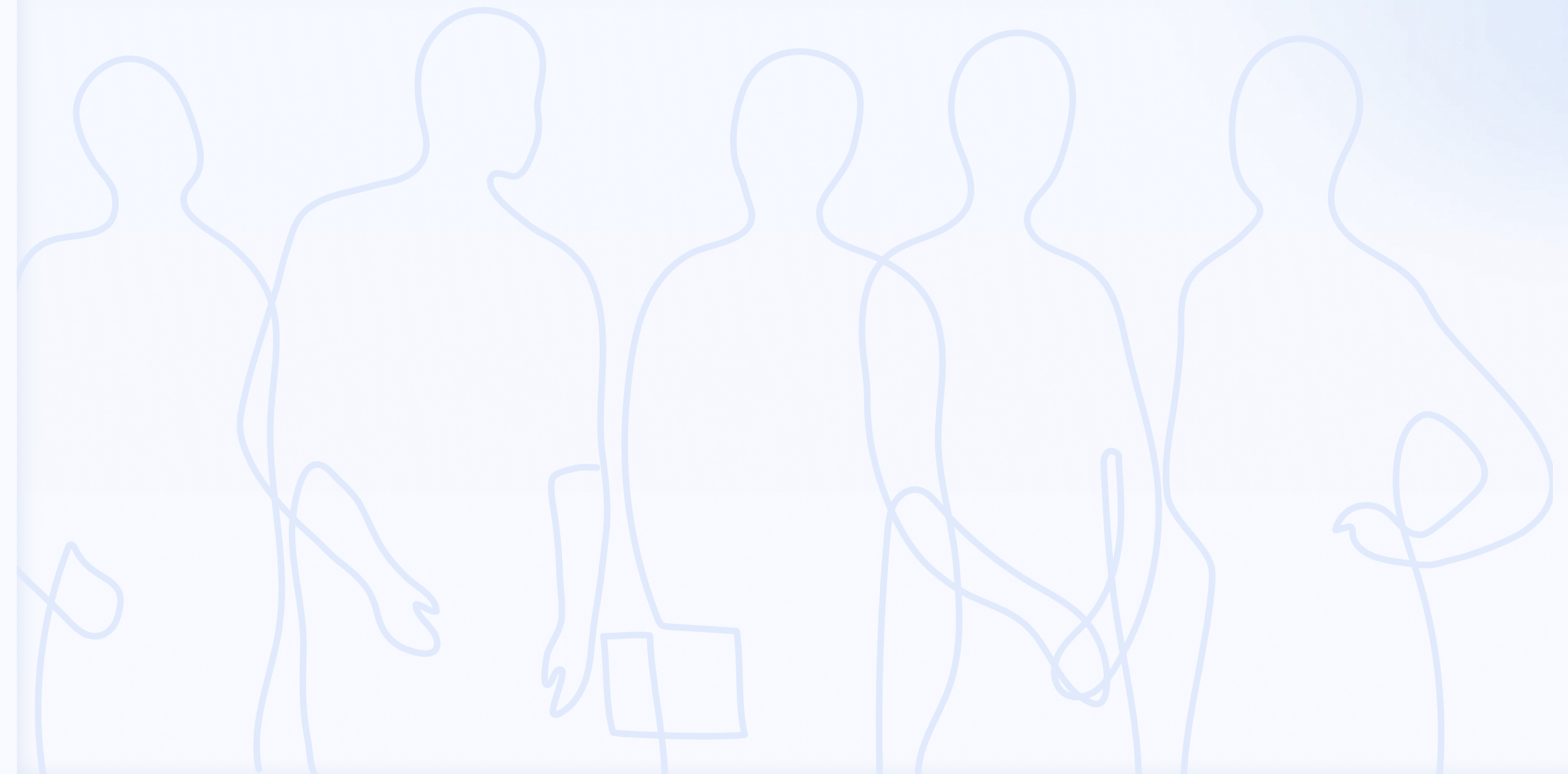
**500**

Number of products

**1.5 mil+**

Number of locations

**3**



## The Challenge

- ⚠️ U-pax faced significant hurdles in the retail landscape. With a vast network of local retailers from diverse sectors and regions, the challenge of creating a unified digital platform was evident. They required an efficient system that could not just consolidate data from all these varied stores, but also refine and present this data in a manner consistent with retail standards.
- ⚠️ Another pressing issue was the sluggish digital onboarding process for stores within the U-pax ecosystem. Furthermore, the absence of a comprehensive tool that could offer real-time access to essential product-related details—spanning product availability, shop information, location, reviews, images, and pricing—added to their complexities.

## Implementation

- + Redesigned the app with a modernized UI and optimized UX.
- + Implemented a range of new payment methods, including Apple Pay, Google Pay, and PayPal, while enhancing the current payment system with additional functionalities like split payments (allocating taxes to the u-pax account and the remainder to the owner's account), processing refunds, and accepting payments in various currencies.
- + Integrated Elasticsearch for improved search capabilities.
- + Developed a web app specifically for sellers.
- + Implemented a sophisticated crawling system for data extraction from major e-commerce platforms and custom algorithms for tailor-made shops.
- + Developed a mapping solution for efficient distance calculations.
- + Introduced data-driven analytics to study user behaviors.

## The Results

- ✔️ A more modern and user-friendly app interface.
- ✔️ Expanded and smoother payment options for users.
- ✔️ Precise and relevant search results for users.
- ✔️ Streamlined shop management for sellers.
- ✔️ Effortless data extraction from leading e-commerce platforms and custom solutions for specific tailor-made shops.
- ✔️ Streamlined logistics and financial operations due to efficient distance calculations.
- ✔️ Enhanced user experience based on real-time insights from user behavior analytics.