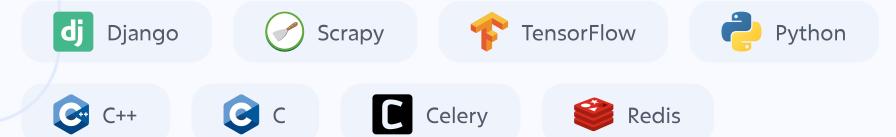


ProductMatch MVP

Data-Driven Methodologies for Pinpointing High-Yield Products on Amazon

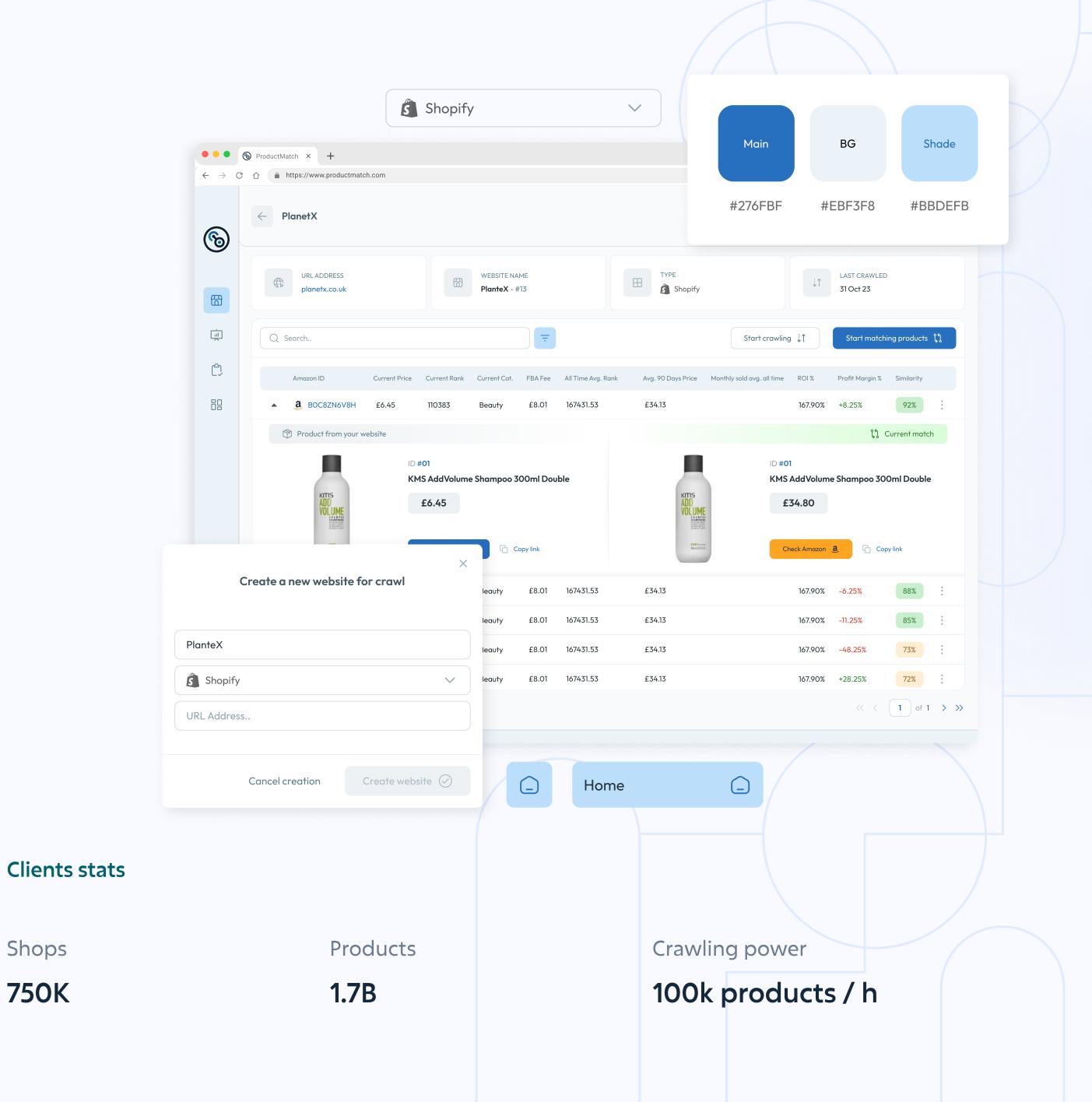
Technologies & frameworks





Shops

750K



About the client

Our client is a distinguished third-party vendor on the Amazon platform, specializing in strategic market analysis.

Through rigorous digital marketplace research, they identify high-performing products and significant discount opportunities.

Their approach is twofold:

- Introducing unrepresented products to the Amazon landscape.
- Competitively pricing offerings to ensure a distinct market advantage over existing listings.



The Challenge

In the competitive world of Amazon third-party selling, our client faced substantial challenges. Their strategy, rooted in manual searches across countless websites for lucrative Amazon products, highlighted the pressing need for an integrated digital solution.

Relying heavily on various SaaS tools to retrieve Amazon product histories, they sought a streamlined system to consolidate and analyze this data efficiently.

Their operational challenges were exacerbated by the lack of a system that could seamlessly pair products with their Amazon equivalents, quickly assess ROI, and guarantee up-to-the-minute price accuracy.

Implementation

- + Development of Generic Crawling Algorithms specifically for Shopify, WooCommerce and SEO optimised sites.
- Crafting of Amazon-Specific Crawling.
- Deployment of AI-Powered Product Matching using pre-trained e-commerce models.
- $oxedsymbol{+}$ Introduction of an Intuitive UI with admin interfaces.
- + Utilization of Django Orchestration complemented by Celery tasks.
- + Seamless Scrapy Integration within Django.
- + Incorporation of a TensorFlow-Powered Microservice for product matching.
- + Establishment of a Redis & Celery Partnership.
- $oldsymbol{+}$ Implementation of the Webldentity Mechanism.
- + Introduction of a Captcha Cracking engine.

The Results

Access to data from over 750,000 UK websites through tailored crawling. Constant updates on Amazon product pricing data. Precise matches between scraped products and their Amazon equivalents. Clear view of products with high profitability potential on Amazon and comprehensive oversight of all processes. Efficient asynchronous operations using Django and Celery. Proficient crawling of Shopify, WooCommerce and SEO optimised Efficient inter-service communication for product matching via REST. Adept task management through Redis & Celery. Reduced need for an extensive proxy pool due to genuine request simulation. Optimized Amazon crawling rates through captcha cracking.