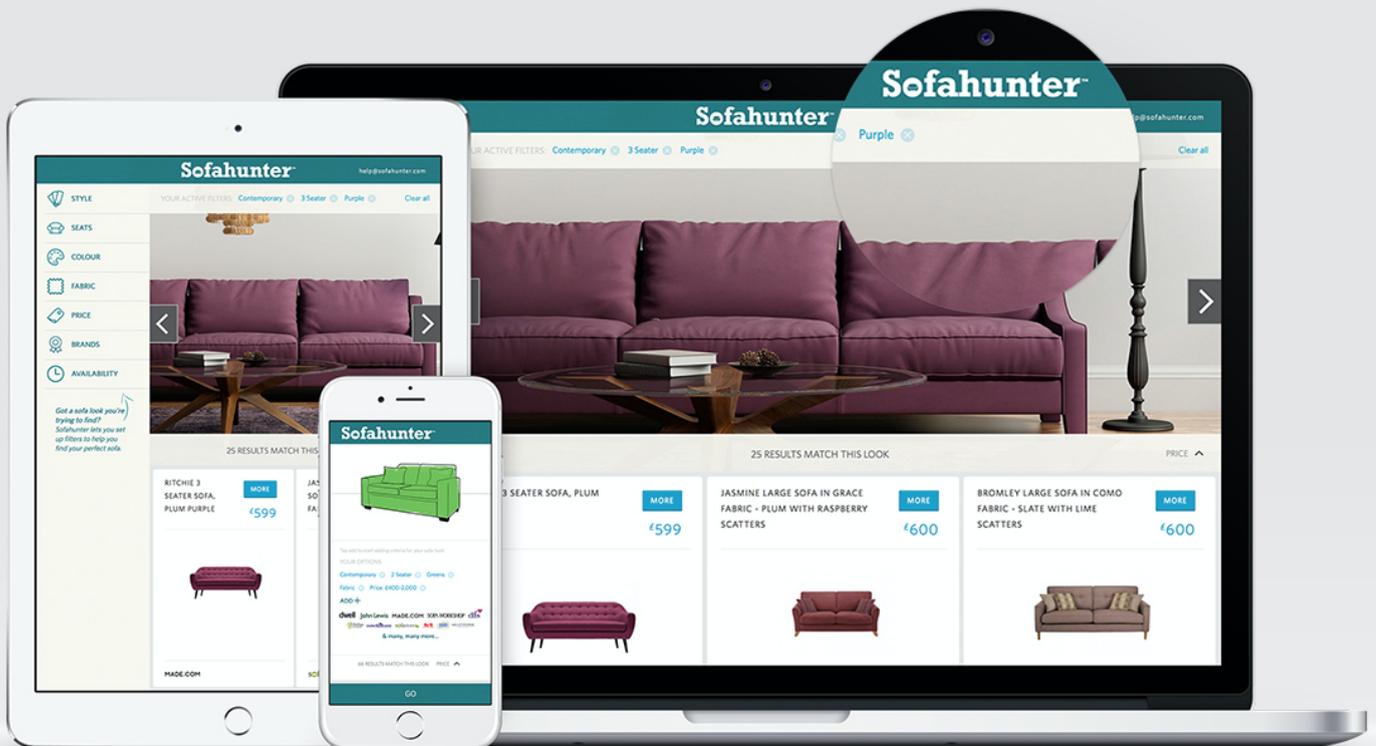## Case study - SofaHunter.com

Project Name: SofaHunter.com
Project Duration: 3 months to MVP, 12 months fully stable product
URL: www.sofahunter.com
Current Status: Launched in 2016, inactive since 2018

Sofahunter.com is an online comparison website targeting sofa shoppers. It aggregates data from various sources and allows users to shop for sofas in an efficient and user-friendly way.

The challenge

Atomate has been contracted by the client to develop the concept, implement the UI/UX and the core technical solution, with data aggregation and scraping capabilities. The solution required ability to extract data from multiple types of data sources.

The process

We engaged with the client to perform the following activities
- Perform discovery by
    - Organising a series of workshops with the client to gather initial requirements
    - Develop implementation master plan

- - ○ Develop specifications for each phase, including UX flows and wireframes
    - ○ Develop solution development and testing guidelines, as well as solution architecture
  - ● Solution implementation
    - ○ Structuring the work into 2 weeks sprint,
    - ○ Deliverables agreed with the client, but usually: release at the end of each sprint
    - ○ Team composition: 3 developers (Backend / Frontend), 1 QA, 1 PM
  - ● Solution stabilisation
    - ○ Continuously test and stabilise platform
    - ○ Implementation of automated regression tests

Notes on technology stack

The following technology stack has been used to implement the project.

Component	Framework / Technology
Frontend	● Fully Responsive UI, adaptable to any screen width, including desktop, mobile and tablet ● JQuery / Backbone Javascript Library for UI / UX ● PHP / Laravel web framework for additional functionality ● Search mechanisms based on Apache SOLR faceting, quick and efficient ● Apache SOLR Zookeeper support for scaling
Backend Admin Application	● PHP / Laravel web framework with customised management and user access modules ● Web sockets integration for real time job tracking ● REST API integration with Data aggregation & Scraping module ● Additional IP Whitelisting and access mechanisms to ensure backend security
Data aggregation & Scraping application	● Java 8 / Spring MVC with scheduling component with advanced job handling engine for efficient job management and execution. ● Data extraction component with Integration with external affiliate marketing systems for data retrieval via Restful API/FTP retrieval, including push abilities. ● Data update module (content/status/price updates for a product) with separate deduplication module and data versioning abilities ● REST API with security layer for data extraction and pull/push operations
Database & Storage	● Mysql Master / Slave setup, fine tuned for performance ● Apache SOLR for Search API
Server architecture	● Load balanced, multi-server setup ● Hosted and configured on Amazon Web Service (AWS) ● Automated scaling configured for spikes in activity