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Front page

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ArtSoft
— consult —

The Art of Software Development

**Comprehensive real estate
management platform for
seamless transactions and
integration**

-  Dashboard
-  Realties
-  Watches
-  Customer management
-  Statistics
-  Invoices
-  Settings
-  Info
-  Customer support
-  Testing area
-  Test realty generation

Key Information



Industry:

Real Estate



Project duration:

4 years



Team Size:

5 specialists



Technologies:

- NodeJS, ReactJS, TypeScript
- PostgreSQL
- AWS (including S3, Lambda functions, API Gateway, OpenSearch)
- Jest, Robot Framework



Services:

- Architecture and software design
- Software development
- Software testing
- Deployment
- Maintenance
- Agile project management

Highlights

- A platform designed for the real estate industry, connecting sellers, buyers, landlords, tenants, and real estate agents.
- Integration with older real estate marketplaces and development of an **API for external developers** to enhance platform functionalities.
- Agents can manage multiple types of properties for sale, purchase, or rent, with the ability to **create and manage marketing actions and offers**.
- Buyers can browse properties and specify their requirements for purchasing specific assets.
- Comprehensive **management of real estate agencies** and other **stakeholders in the real estate business**.

Product Overview

The system is built as a **suite of web applications** that enable all parties involved in real estate transactions to perform necessary actions.

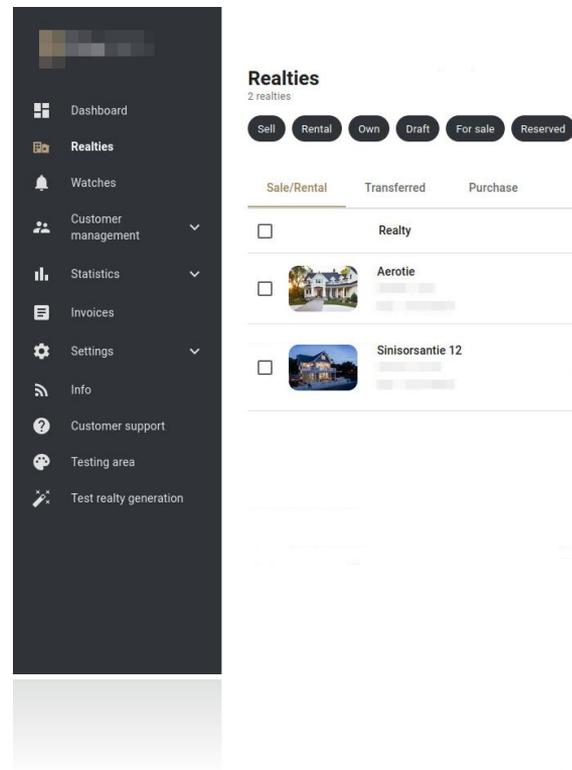
Both agents and buyers can manage or view real estate data and transaction details.

A key focus of the system is integrating with legacy platforms, while also offering **APIs for third-party real estate management systems**.

The web clients are designed to significantly improve upon older real estate marketplaces, **enhancing functionality, usability, and reliability**.

Requirements

The client aimed to develop a solution that integrates with legacy real estate marketplaces and provides **comprehensive management of real estate information, transactions, agencies, contracts, documents, and marketing**. Additionally, an API was required for external developers to integrate functionalities into their own systems.



Challenges

Our responsibilities included the software analysis, design and development of the API and front-end applications, as well as ensuring a **robust architecture and infrastructure** capable of **handling millions of users** while maintaining **fast response times for optimal responsiveness and usability**.

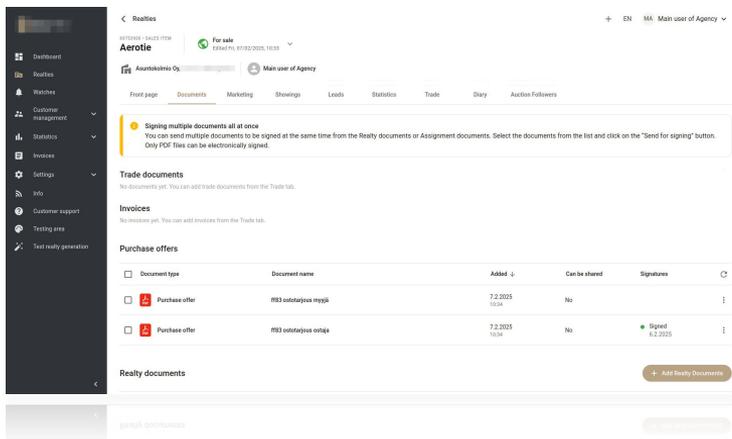
A large volume of **data** had to be **migrated** from legacy systems and subsequently maintained. Given the scale and sensitivity of the data, developing and maintaining a wide range of unit, integration, and end-to-end tests was essential.

A strong emphasis was placed on involving each team member in the **testing process**, using a **variety of technologies to ensure thorough coverage and reliability**.

The screenshot displays the Aerotie real estate management system. The interface is divided into a dark sidebar on the left and a main content area. The sidebar contains navigation links for Dashboard, Realities, Watches, Customer management, Statistics, Invoices, Settings, Info, Customer support, Testing area, and Test reality generation. The main content area shows a 'Realities' page for 'Aerotie' with a 'For sale' status. It features a 'Purchase offers' table with columns for Buyer, Debt-free price, Created, Offer validity, Offer chain status, and Counter offer. Below this is a 'Start trading' section with four cards: Trade settlement, Asset transfer tax return, Invoices and commission sharing, and Sales deed and attachments. At the bottom, there is an 'Invoices' table with columns for Invoice number, Customer, Total, Issue date, Due date, Type, and Status.

Key Features

- Comprehensive management of all real estate-related information and transactions.
- Real-time tracking of real estate transaction statistics.
- Integration with data from older real estate marketplaces.
- An API enabling external developers to build innovative applications.



Provided Solution

The solution involved developing multiple back-end and front-end applications using a **microservice architecture**. The system was designed to be scalable and efficient, with each component working independently to ensure **flexibility and ease of maintenance**.

A strong focus was placed on implementing automated **tests** to ensure **comprehensive coverage** and **reliability**. Given the large volume of data, significant attention was given to database management to handle extensive real estate listings.

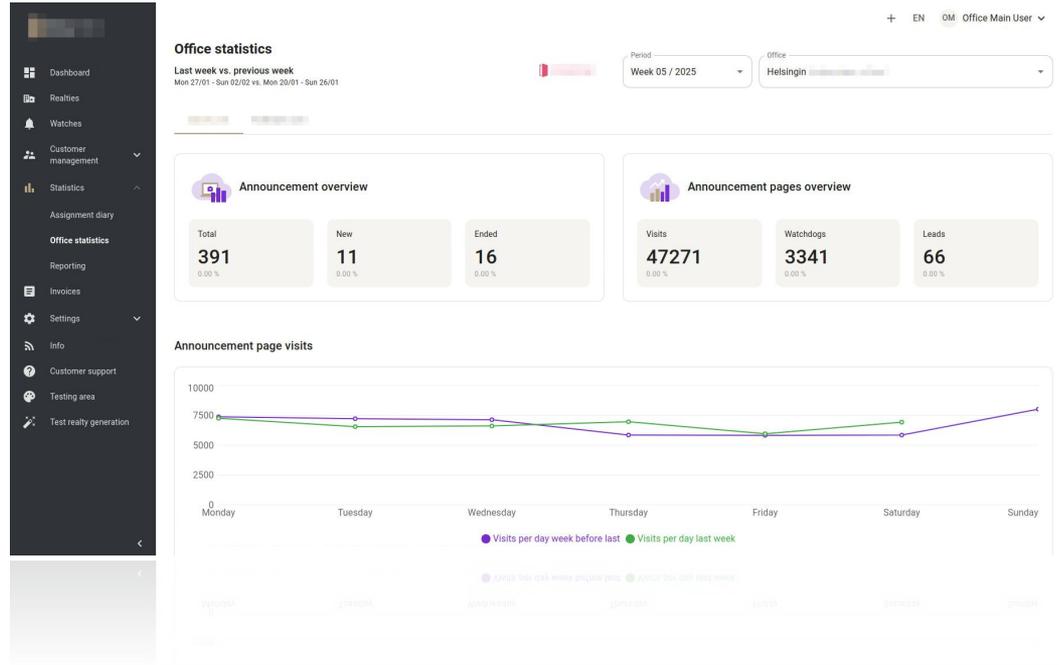
The front-end applications were developed to be fully responsive and integrated seamlessly with the back-end services.

Reusable components were created for both back-end and front-end to ensure consistency and improve development efficiency.

“ Client Words

“I have had a pleasure to work with ArtSoft since 2009 in several software development projects as customer’s project director and primary contact person roles. My company and its affiliated companies started outsourcing partnership with ArtSoft on small pilot project. After the pilot project ArtSoft has shown great qualities that have led to a partnership. [...] I recommend them with enthusiasm as a long-term outsourcing partner.”

**- Chief Performance Officer
Product Development**



Let's get in touch

ArtSoft Consult is a trusted partner in the IT industry, providing tailored solutions to address your unique business challenges.

With our proven expertise our team delivers innovative solutions and development services.

Drawing from years of experience and industry insights, we deeply understand this industry and we look forward to working with your business.

For more details on our services and team, please [contact us](#).



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