Success in solving complex technical challenges to develop

An e-commerce site for Automobile industry

HIGHLIGHTS

01 DAILY DATA UPDATED
Luvina researches and proposes solutions to deal with difficult and complex technical issues such as the problem of receiving data from external systems and importing daily to SFCC.

02 COMPLEX KNOWLEDGE
Luvina researches and proposes solutions to deal with difficult and complex problems such as: Improving performance for the search function in the system with a complex business context.

OVERVIEW

Duration:
- *Development phase:* Lasts 9 months, from October 2022 to June 2023.
- *Maintenance phase:* An ongoing commitment lasting from July 2023 to present as the project continues to develop.

Project implementation stages:
- Proof of concept (POC)
- Deployment (PG)
- Unit Testing (UT)
- Integration Testing (IT)
- Performance-security testing

Team size:
- *Development phase:* 18 employees
- *Maintenance phase:* 3 personnel ensure continuous operation and development of the project.

Technology:
- *Server:* Leverage ExpressJs and Rhino for powerful server-side capabilities.
- *Client:* Use ES6, Bootstrap, jQuery, and HTML5/ISML to create attractive and responsive user interfaces.
- *Development Tools:* We rely on VSCode and Sandbox environments for efficient development and testing.
- *Core Platform:* The core of our solution is Salesforce's SFRA, which provides a solid foundation for our e-commerce ecosystem.

ABOUT CLIENT

Our valuable client operates in the B2C corporate sector, primarily focusing on e-commerce website development. This particular project has found its place in selling high-quality auto parts.
Main functions of the Platform:
- *Product Search:* The advanced product search feature serves diverse user needs.
- *Purchasing:* A *streamlined* purchasing process ensures a seamless customer experience.
- *Payment:* Secure payment gateway to facilitate transactions.
- *Excellent integration:* Integrates with multiple batch processes and external API systems, enabling real-time inventory retrieval and payment processing.

CASE STUDY

LUVINA
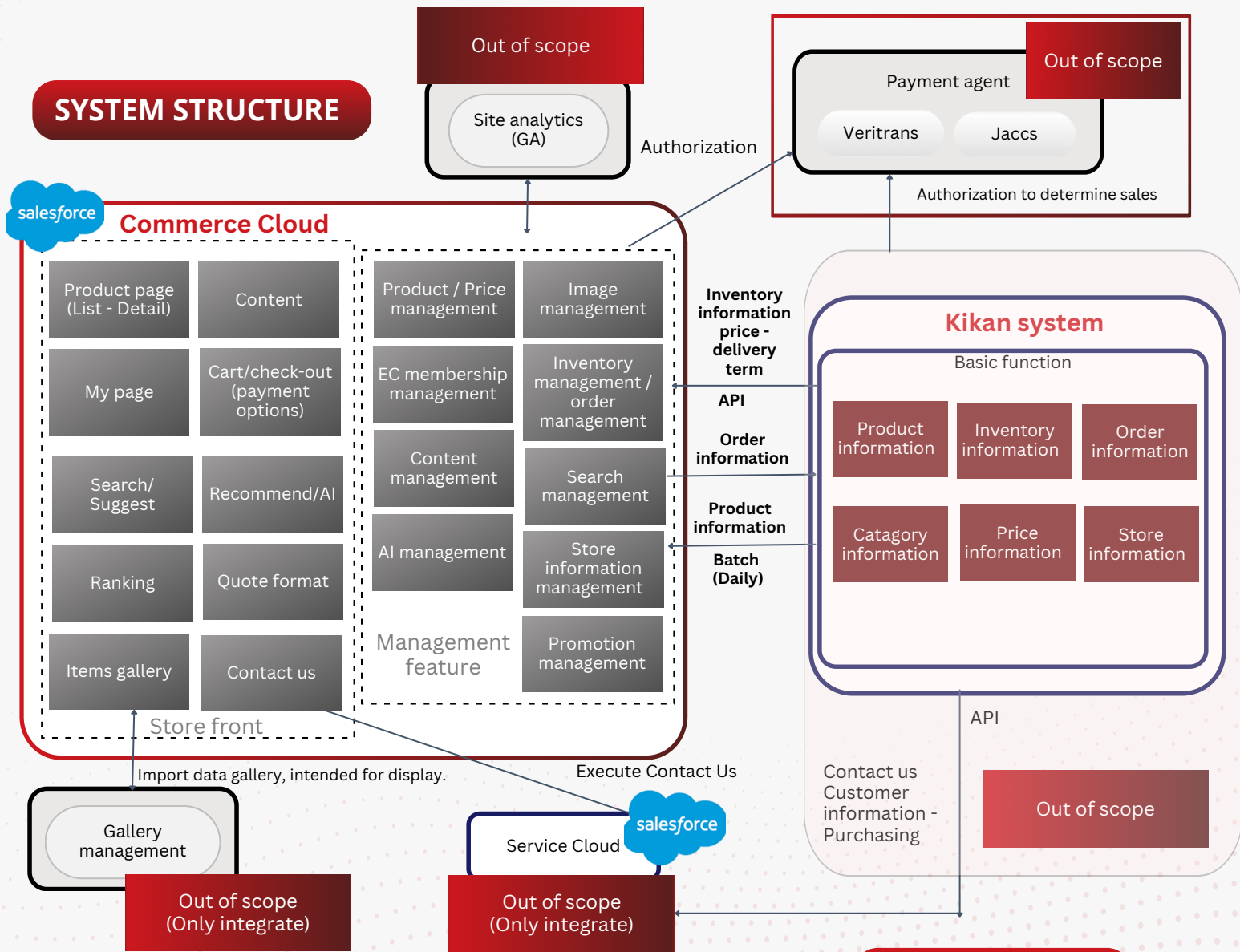LUVINA SOFTWARE

Scope of work and main functions

01. Proof of Concept (POC):

We embark on a comprehensive investigation and research phase to evaluate the feasibility of technical solutions. Our focus is on solving two important problems:

- Data Migration: Develop a mechanism to receive data from external systems and import it seamlessly daily into Salesforce Commerce Cloud (SFCC).
- Improved performance: Improved search functionality in the system, especially in the context of complex business situations.

02. Development phase:

With the findings from the POC, we have moved into the development phase. Here, we aim to create a dynamic website that sells auto parts. The platform is meticulously designed to meet the specific needs of customers.

SYSTEM STRUCTURE

Out of scope

Site analytics (GA)

Authorization

Payment agent

Out of scope

Veritrans   Jaccs

Authorization to determine sales

salesforce

Commerce Cloud

Product page (List - Detail)	Content
My page	Cart/check-out (payment options)
Search/ Suggest	Recommend/AI
Ranking	Quote format
Items gallery	Contact us

Store front

Product / Price management	Image management
EC membership management	Inventory management / order management
Content management	Search management
AI management	Store information management
	Promotion management

Management feature

Inventory information price - delivery term

API

Order information

Product information

Batch (Daily)

Kikan system

Basic function

| Product information | Inventory information | Order information |
| Catagory information | Price information | Store information |

API

Import data gallery, intended for display.

Execute Contact Us

Contact us Customer information - Purchasing

Gallery management

salesforce
Service Cloud

Out of scope (Only integrate)

Out of scope (Only integrate)

Out of scope

ACHIEVEMENTS

- Successfully solved two complex technical challenges: seamlessly migrated daily data from external systems to SFCC and improved performance in complex business contexts.
- The development of a dynamic e-commerce platform specializing in auto parts, meeting the unique needs of the industry.
- Powerful features include advanced product search, streamlined purchasing process, and secure payment gateway.
- Seamless integration with external systems, enabling real-time inventory retrieval and payment processing.