



# Modernize a 30-year-old legacy asset management system using the Java programming language.

## HIGHLIGHTS

### 01 ASSET MANAGEMENT ENTERPRISE KNOWLEDGE

Asset management is a special finance-based enterprise. To deeply understand the foundation knowledge about asset management, we took over fundamental books and materials about it.

### 02 COBOL PROGRAMMING LANGUAGE

To be able to adapt and implement to modernize the system, Luvina had to understand the old software system developed by the Cobol programming language.

### 03 DOCUMENT THE SYSTEM IN STANDARD FORMAL JAPANESE

Development service is not the biggest challenge in this project. After implementing the system, we took charge of the documentation process, which required a perfect Japanese language in use.

## ABOUT CLIENT

Our client is a system integration company that owns a very powerful 30-year-old asset management system that is written in the ancient programming language Cobol.

They faced a difficult challenge when previous efforts to modernize the asset management software failed, forcing them to look outside for a solution.

In 2021, Luvina and other IT companies took on the task of **modernizing their legacy systems from Cobol to Java.**

## OVERVIEW

The project carries out the work of modernizing an asset management system developed more than 30 years ago in the Cobol programming language into the Java programming language.

- **Country:** Japan
- **Service:** Software Modernization
- **Industry:** Asset Management
- **Technologies:** Java, Cobol, JCL, Linux, Oracle

## CASE STUDY

### CHALLENGES

#### Understand asset management fundamentals:

To develop a successful solution, it is important to understand the complexities of the asset management business. Meanwhile, at that time, the Luvina team had absolutely no experience and knowledge of asset management. We are forced to start our learning journey from the most basic things, starting from scratch.

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#### Understanding Cobol language:

Understanding the ancient Cobol system is paramount. It requires meticulous examination of existing code to decode its logic and functionality, setting the stage for a successful transition to Java.

#### High-quality standards requirement:

3 Customers demand nothing but perfection, aiming for an output quality rating of 100/100, with no bugs in the source code. Meeting these stringent quality standards is a huge challenge.

#### Document the system in accurate Japanese:

Project documentation requires a level of formality, precision, and perfection that only a Japanese person with a high level of language proficiency can meet.

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### SOLUTIONS

#### Fundamental Learning:

Luvina invested in fundamental learning, using books and materials to grasp essential theories. We dedicated time to gaining a deep understanding of the client's industry, approaching it methodically and consistently.

#### Cobol Decoding:

Luvina's skilled personnel had expertise in Cobol, allowing us to understand the ancient system's logic and streamline the transition to Java.

#### Project management processes with outstanding quality:

Luvina prioritizes strict quality assurance processes, meets ISO27001 and CMMI3 standards, and conducts comprehensive testing to achieve the highest quality standards for client.

#### Documentation with accurate Japanese:

A proficient Japanese team, including native speakers, meticulously prepared and reviewed project documentation to meet the client's strict standards.

#### Successful migration:

Luvina's expertise ensures a smooth transition from Cobol to Java, meeting customer needs.

#### Quality exceeding expectations:

The project exceeded customer quality expectations, achieving a perfect rating, a testament to Luvina's commitment to high-quality standards.

#### Accurate Documentation:

Luvina's dedicated Japanese team delivered project documentation with excellent accuracy and appearance, meeting the client's exacting standards.

### ACHIEVEMENTS