

# TRANSFORMING CONSTRUCTION SITE MANAGEMENT

with Innovative Software Solutions

## OVERVIEW

Luvina Software. partnered with a prominent Japanese construction company, along with a consulting partner, to develop an innovative software solution. This solution aims to address various challenges in managing human resources, machinery, and tasks at construction sites in Japan.

- **Country:** Japan
- **Service:** Software Development
- **Industry:** Construction
- **Technology:** React Native, Vue JS, PHP – Laravel, MySQL và Docurain
- **Duration:** 11 months
- **Scale:** 210 man-months

## ABOUT CLIENT

Our client is a major player in Japan's construction industry. Committed to innovation, they recognized the need for digital transformation in their project management processes.



## CASE STUDY

### CHALLENGES

**Construction Industry Specifics:** The construction sector faces unique difficulties in managing the qualifications and professional certificates of individuals in certain specialized roles. Additionally, overseeing workforce numbers for subcontractors, monitoring project progress, and other improvement needs have become essential in modern projects.

**Resource management:** Issues such as workforce coordination, progress tracking, resource allocation, and communication gaps can impact project progress and effectiveness.

### SOLUTIONS

Luvina Software JSC's comprehensive solution hinged on advanced technology and thoughtful design. The development process encompassed several key aspects:

01

#### Workforce Management

Our working process enables personnel to coordinate seamlessly and allocate tasks efficiently.

02

#### Task Tracking

Real-time updates and tracking mechanisms empowered project managers to monitor progress and take proactive measures.

03

#### Resource Allocation

Identify the right resources, and assign members to project tasks in order to meet project objectives.

04

#### Communication Platform

Effective communication bridges were built between on-site and off-shore teams, mitigating misunderstandings and delays.

05

#### Document Repository

Creating a centralized repository for project-related documents can improve accessibility and version control.

### ACHIEVEMENTS

The collaboration culminated in remarkable results, both in terms of project delivery and customer satisfaction:

- **On-schedule Completion:** The software system was delivered within the specified 11-month timeframe, showcasing the efficiency of our development process.
- **Customer Satisfaction:** The construction company's project management capabilities underwent a paradigm shift, leading to higher customer satisfaction and confidence.
- **Reduced Delays:** Swift communication and streamlined processes resulted in fewer delays, translating to expedited project timelines.
- **Realized Vision:** The client's vision of efficient construction site management became a reality, as the software provided real-time insights and tools for informed decision-making.