



CASE STUDY

Digitalizing Asbestos Survey Reporting for a Construction Demolition Specialist

Reducing report creation time by 70% through a centralized reporting platform



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Project Overview

The customer, i-research, specializes in surveying and analyzing asbestos-containing construction materials during building demolition projects.

As part of its daily operations, the company conducts site inspections, sample collection, laboratory analysis, and report preparation for clients and regulatory authorities. However, most reporting activities were still handled manually, resulting in lengthy processing times and challenges in maintaining consistency as the number of projects continued to grow.

To address these challenges, i-research partnered with LUVINA to develop Ircord for Web – a digital platform designed to streamline and automate the survey reporting process.

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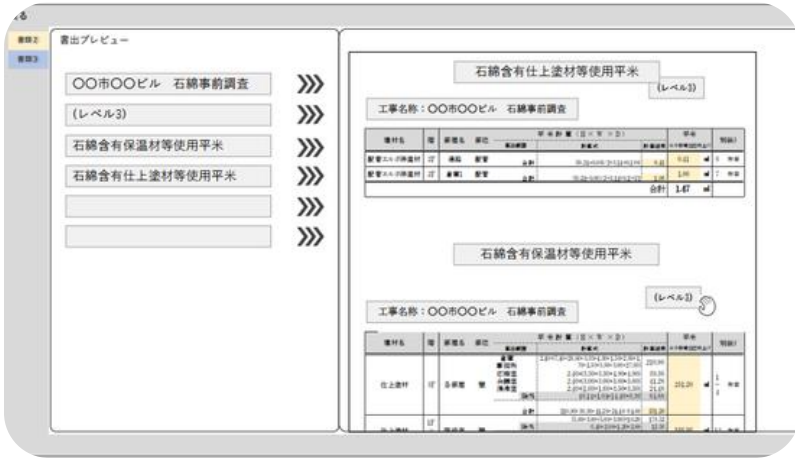
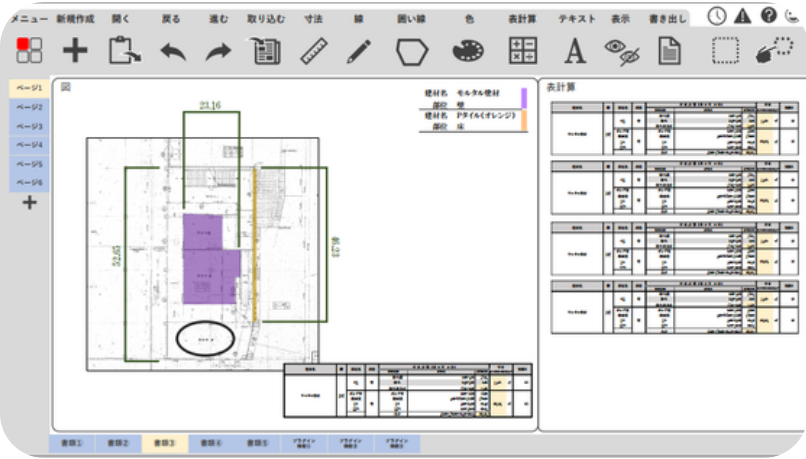
Duration: February 2024 – May 2024

Project Size: 11 MM

Location: Vietnam

Industry: Building Demolition & Environmental Surveying

Services: Web Application Development & System Maintenance



| Context & Challenges

Business Challenge

Before the project, report preparation was heavily dependent on manual work.

Survey results, building drawings, photographs, and analytical data were collected from multiple sources and manually consolidated into final reports.

As the business expanded, this approach created several challenges:

- Significant time spent creating and updating reports
- Inconsistent report quality across different users
- Difficult collaboration between teams
- Limited visibility into project data
- Increasing operational costs due to manual processes

The customer aimed to build a semi-automated reporting platform capable of supporting various reporting workflows while remaining flexible enough to adapt to different user requirements.

Objectives

- Reduced report generation time by 50%.
- Improved report accuracy and consistency.
- Provided users with access to actionable insights.
- Enhanced collaboration and information sharing throughout the reporting process.

| Project Overview

Key Challenges

Complex Reporting Requirements

Reports were generated using a combination of:

- Building floor plans
- Site photographs
- Inspection findings
- Laboratory analysis results

The platform, therefore, required advanced editing capabilities similar to professional design tools, including:

- Image cropping
- Erasing and annotation tools
- Measurement tools
- Line and shape drawing
- Visual markups on floor plans and photos

Highly Flexible User Requirements

Different organizations and users followed different reporting standards and formats.

The solution needed to support:

- Customizable menus
- User-specific configurations
- Multiple report templates
- Organization-specific reporting workflows

Fragmented Data Sources

Report information was stored across different systems and file formats, making data consolidation time-consuming and error-prone.

Project Overview

LUVINA's Solution

To address these challenges, LUVINA developed a centralized web-based reporting platform that streamlined the entire reporting process.



Advanced Report Authoring Tools

LUVINA rapidly researched and implemented specialized technologies to support complex report creation workflows, enabling users to annotate, edit, and manage survey documentation directly within the platform.



Flexible Customization Framework

The platform was designed to support extensive customization, including:

- User-specific menus
- Custom report templates
- Organization-specific workflows
- Configurable reporting structures



Unified Data Management

LUVINA consolidated information from multiple sources into a single centralized platform, providing users with one source of truth for reporting activities.

Delivery Approach:

LUVINA adopted an Agile Scrum methodology to maximize flexibility and accelerate feedback cycles.

Key project practices included:

- Early technology exploration and validation
- Rapid mockup development
- Weekly product demonstrations
- Continuous stakeholder feedback
- Transparent project planning and communication

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- Transparent project planning and communication

This approach enabled the team to progressively refine the solution while maintaining alignment with customer expectations.

Project Overview

Business Outcomes

70%

in Report
Creation Time

The new platform significantly reduced manual effort, allowing users to generate reports much faster than before.

Improved Accuracy
and Consistency

Standardized templates and centralized data management helped ensure consistent report quality across teams.

Better
Decision-Making

Users gained access to actionable information through a centralized reporting environment.

Enhanced
Collaboration

The platform improved information sharing and collaboration among stakeholders involved in the reporting process.

High Customer
Satisfaction

The delivered solution closely matched customer expectations and successfully addressed the operational challenges that motivated the project.

By transforming a highly manual reporting process into a digital reporting platform, LUVINA helped the customer improve efficiency, standardize operations, and establish a scalable foundation for future growth.

The project demonstrates LUVINA's capability to deliver customized business applications that combine complex document generation, advanced visual editing tools, and highly flexible workflow customization.

Name	Description	Version	Licenses
Laravel	Frameworks	10.10	MIT
MySQL	SQL Database	8.0	
Vue.js	Frontend web application framework. Vue.js is a JavaScript framework for building user interfaces	3.3.4	MIT



Thank You

CONTACT US



<https://luvina.net/>



info@luvina.net



Tel: (84) (24) 3793 1103 (ext 0)

Fax: (84) (24) 3793 1106

OUR OFFICES

Headquarter in Hanoi, Vietnam: 4F, Hoa Binh Tower, 106 Hoang Quoc Viet Str., Nghia Do Ward, Hanoi City, Vietnam.

Branch in Da Nang, Vietnam: 18F, No. 2 Quang Trung Building, Hai Chau Ward, Da Nang City, Vietnam.

Branch in HCM City, Vietnam: 38/1 Nguyen Van Troi Str., Cau Kieu Ward, Ho Chi Minh City, Vietnam.

Branch in Japan: R612, Kanagawa Science Park (KSP), 3-2-1 Sakado, Takatsu-ku, Kawasaki-shi.

Representative office: 38N Almaden Blvd, Unit 125, San Jose, California 95110-2720, United States.

Luvina Software Private Limited: 168 Robinson Road, #20-01, Capital Tower, Singapore 068912