

## Case Study

# Modernizing a Tour Booking Website for a Global Travel Agency



# Project Overview

Luvina Software partnered with a global travel agency to modernize their legacy tour booking website. The primary objective was to upgrade the system from PHP 5 to PHP 8, and from Laravel 7 to Laravel 11—enhancing security, improving performance, and ensuring long-term scalability. This upgrade was critical to keeping the system aligned with evolving technologies and ensuring a seamless user experience for millions of travelers across multiple regions.

**Region:** Japan

**Industry:** Travel & Aviation

**Duration:** March 2024 – September 2024

**Size:** 18 MM

**Service:** Software Modernization

**Key technologies:**



IT-B03-A001

旅行代金 **145,000 円 ~ 150,000 円**

・ 燃油サーチャージは旅行代金に含まれております。

※ 国土交通省の認可により金額が増減または廃止された場合におきましても、ご集金もしくはご返金はございません。

カレンダーを確認する

コース番号 Z50004-990

出発地

日数 1泊2日

旅行条件 最少催行人員：1名様  
朝食：0回／昼食：0回／夕食：0回  
添乗員：なし 現地係員：なし

関連キーワード

ブランド名

★ 考え中ボックスに追加

📄 比較表に追加

✉ ツアー情報を共有する

🔔 催行決定お知らせメールを受け取る

> [催行決定お知らせメールとは](#)

# Project Overview

## Client

Our client is a leading travel agency headquartered in Tokyo, with a global presence. They offer a wide range of travel-related services for both individual and corporate customers. With millions of users annually, their digital systems must support high demand while remaining secure and responsive.

## »»» Objectives

- Upgrade the system to a modern PHP version for better performance and browser compatibility (Chrome, Edge, etc.).
- Future-proof the infrastructure to avoid potential system downtime due to unsupported software.
- Maintain full functionality and business continuity during and after the upgrade.

## Challenges

- **Legacy Platform:** The application was still running on PHP 5, a version no longer supported, leading to compatibility issues and security vulnerabilities.
- **Expiring Infrastructure:** The current Windows Server 2012 environment was nearing end-of-life, requiring an upgrade to ensure stability and compliance.
- **Complex Business Logic:** The system had a large, interconnected structure that integrated with multiple third-party platforms, making the upgrade process more technically demanding.



# Project Overview

## Luvina's Solution

### 1. System Assessment:

Conducted a comprehensive analysis of the client's existing codebase and infrastructure to identify upgrade paths and potential risks.

### 2. Technical Roadmap & Advisory:

Delivered a clear two-phase upgrade plan:

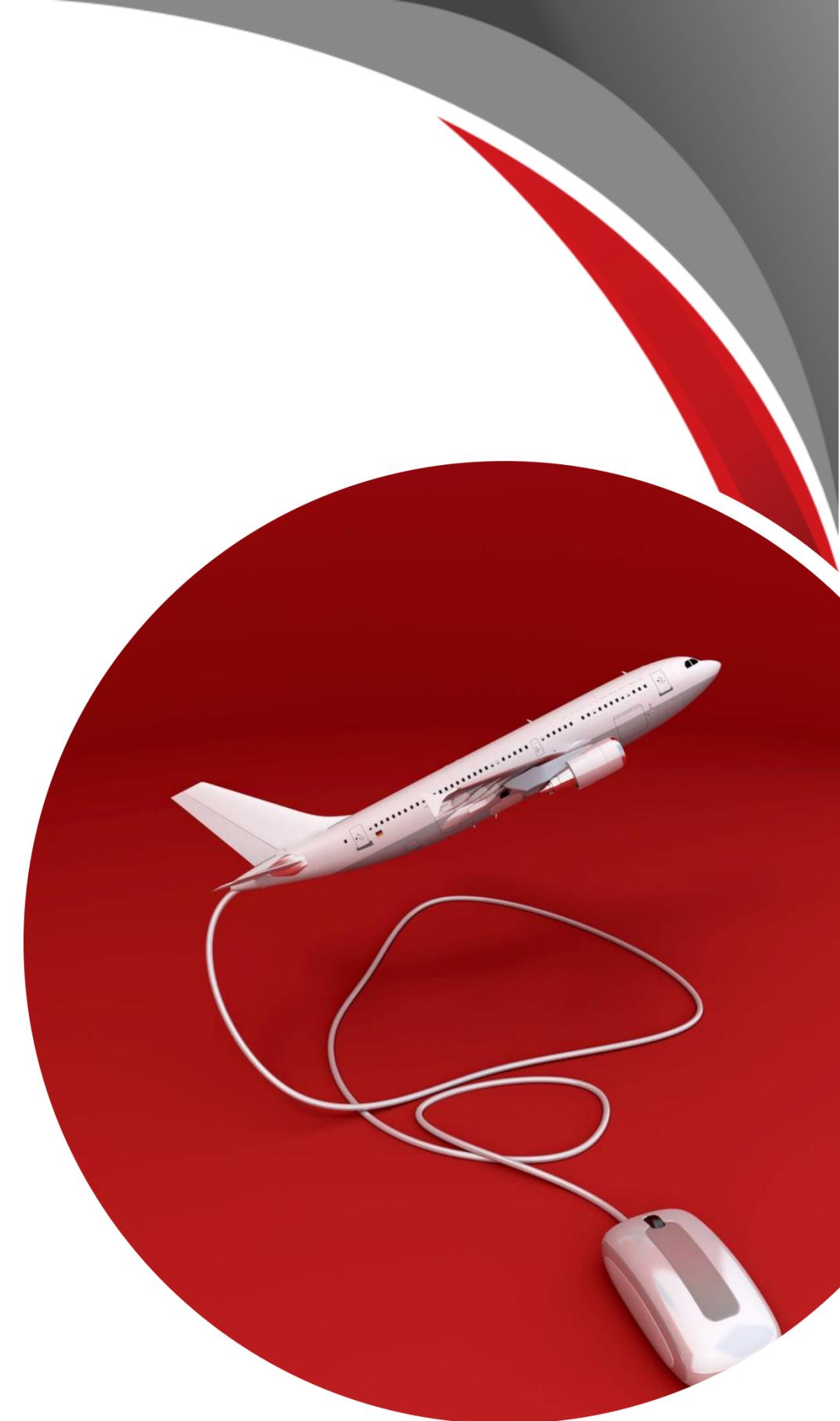
1. Upgrade Windows Server 2012 to 2022
2. Migrate codebase from PHP 5 to PHP 8 and Laravel 7 to Laravel 11

### 3. Skilled Implementation Team:

Deployed senior PHP engineers with deep experience in legacy-to-modern framework migrations. The team carefully documented every code adjustment to ensure quality control and traceability.

### 4. Comprehensive Testing:

Developed detailed test cases covering all core functionalities. Executed regression testing to guarantee the upgraded system performed identically to the original under all scenarios.



# Project Overview

## Achievements

- **+35% Faster Performance:** Page load time improved significantly after the upgrade, ensuring a smoother user experience across all devices.
- **Security & Compatibility:** Resolved all legacy security issues and ensured full compatibility with modern browsers (Chrome, Edge, Safari, Firefox).
- **200+ Features Upgraded in 4 Months:** Completed version upgrade and testing for over 200 functions without disrupting existing operations.
- **Refactored 50,000+ Lines of Code:** Improved maintainability and reduced future development time by up to 40%.
- **99% Test Coverage:** Comprehensive test cases minimized regression risks and ensured consistent business logic post-migration.



# Project Execution Timeline

Phase	Activities	Duration	Resources
1	Version research & planning	2 weeks	1 Engineer
2	Code upgrade & migration	2 weeks	1 Engineer
3	Test case design & testing	8 weeks	2 Engineers

## Tech stack



Version 8.3.2

ORACLE

Version 12c



Version 11



Version 2.4

# Core Features Preserved & Verified

- ✔ Tour booking
- ✔ Tour detail viewing
- ✔ Viewing booking history (confirmed/canceled)
- ✔ Accessing important email notifications

The screenshot displays a user interface for a travel agency. At the top, there's a navigation bar with various menu items. Below it, a breadcrumb trail reads 'クラブツーリズム TOP > 【インバウンド調査】日帰り一人当たり'. The main content area is titled '海外からご参加のお客様へ Please be sure to read this if you are a foreign national 給海外参加者の重要情報' and '【インバウンド調査】日帰り一人当たり'. It shows course details: 'コース番号: X02233 出発日: 2024年07月01日(日帰り)'. A table lists '参加人数選択' (Adult: 1, Child: 0, Toddler: 0) and '旅行代金' (Adult: 5,000円, Child: 4,000円, Toddler: 3,000円). A '人数' summary box shows '大人: 1名様 子供: 0名様 幼児: 0名様'. A 'カレンダーを確認する' button is visible. On the right, there's a sidebar with course details like 'コース番号: X02233-990', '出発地', '日数: 日帰り', and '旅行条件'. At the bottom, there's a navigation bar with 'マイページ トップ', 'お知らせ', 'マイ予約リスト', '考え中ボックス', and '催行決定 お知らせメール'.

The screenshot shows a navigation bar with 'マイページ トップ', 'お知らせ', 'マイ予約リスト', '考え中ボックス', and '催行決定 お知らせメール'. Below the navigation bar, a breadcrumb trail reads 'クラブツーリズム TOP > マイページTOP > 催行決定お知らせメール一覧'. The main heading is '催行決定お知らせメール一覧' with a '使い方' button. The content area contains text about email notifications and a list of tours.

催行決定お知らせメールを受け取る設定をしているツアーの催行状況をご確認いただけます。

※出発日を過ぎると自動的にリストから削除されます。

※催行決定お知らせメールの最大追加数は10コースまでとなります。

※出発日は、1コースにつき20件まで設定いただけます。

催行決定お知らせメールを設定しているツアーはございません。  
ご希望の方はツアーの詳細ページより設定ください。

# Thank You

## CONTACT US



<https://luvina.net/>



[info@luvina.net](mailto: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, 2 Quang Trung Str., Hai Chau Ward, Da Nang City, Vietnam.

**Branch in HCM City, Vietnam:** Zeta Building, 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:** 138N Almaden Blvd, Unit 125, San Jose, California 95110-2720, United States.

**Representative office:** 60 Paya Lebar Road, #06-28, Paya Lebar Square, Singapore 409051