LUVINA
LUVINA SOFTWARE

Case Study

Modernizing a Tour Booking Website for a Global Travel Agency

Visit our website:
www.luvina.net/en

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

php ORACLE

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.

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.

⟫⟫ 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.

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:
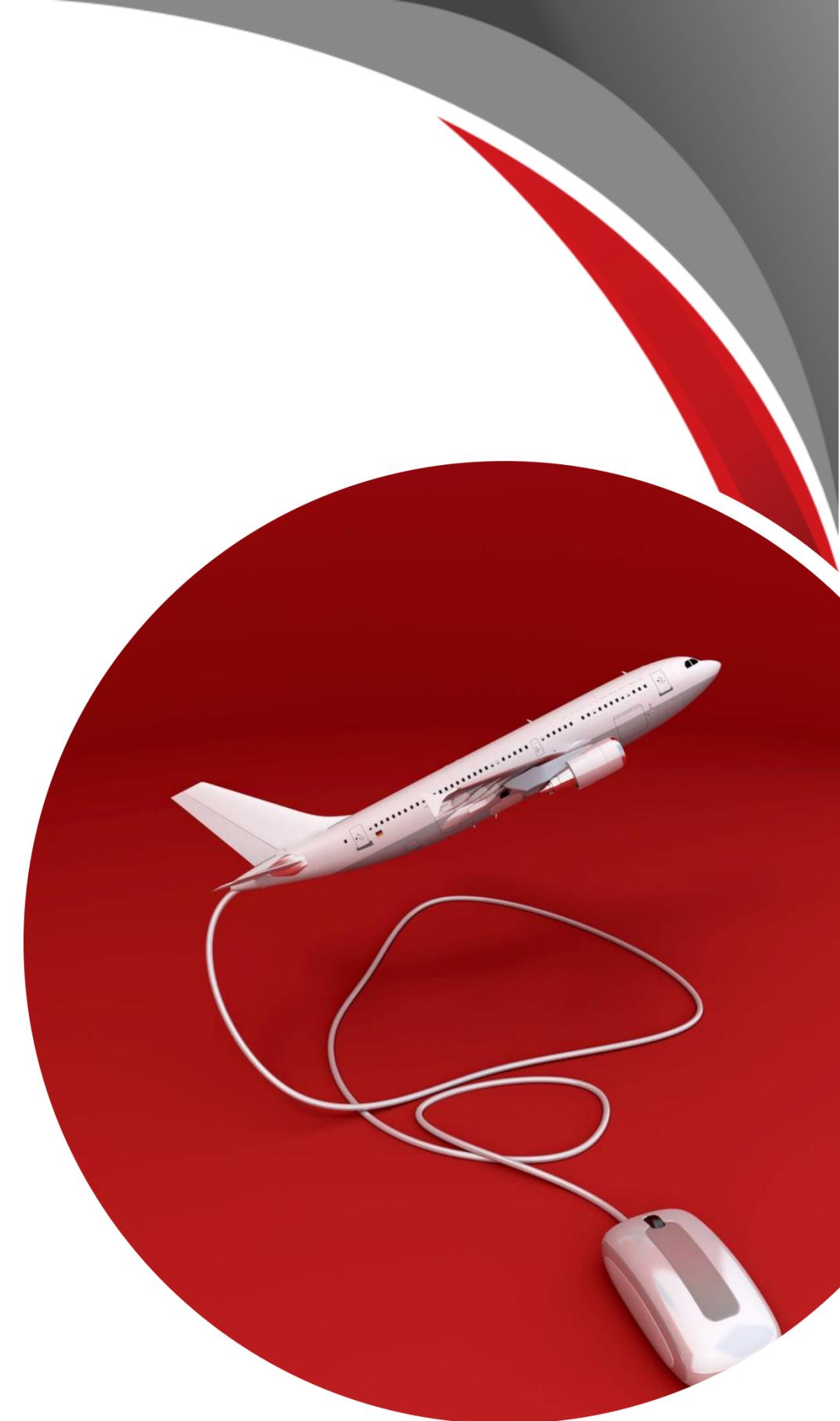
Delivered a clear two-phase upgrade plan:

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

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

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Thank You