



# MEDSU

Healthcare Governance Platform | Service & Technology Documentation

Medical Field • 4+ Years of Service • 4 Core Modules • Upgraded to Laravel 12

## Platform Overview

MEDSU is a cloud-based healthcare governance platform operating in the medical field, serving healthcare professionals and organisations with tools for appraisal management, revalidation, feedback, and professional compliance. The platform comprises four core application modules, each serving a distinct governance function.

Our team has been engaged with MEDSU for over four years, providing end-to-end development services, ongoing maintenance, and continuous feature delivery across all four modules. As part of this engagement, we successfully upgraded the platform to Laravel12 the latest, most advanced stable version of the framework ensuring the platform remains modern, secure, and fully operational.

## Key Challenges

Prior to our engagement, the platform was running on outdated technology across all four modules, presenting the following core challenges:

CHALLENGE	DESCRIPTION
<b>Outdated Technology Stack</b>	All four modules were built on legacy framework versions that had reached end-of-support, posing security and stability risks.
<b>Performance Limitations</b>	Older technology versions restricted platform performance, scalability, and the ability to introduce modern features efficiently.
<b>Security &amp; Compliance Gaps</b>	Running unsupported versions created compliance vulnerabilities inconsistent with the ISO 27001 standards required in the medical field.
<b>High Maintenance Overhead</b>	Legacy codebases were increasingly difficult and costly to maintain, debug, and extend as the platform grew in scope and user base.

## Business Solution

To address these challenges, a structured modernisation and continuous development programme was implemented across the platform:

- **Technology Audit:** Audited all four modules to assess legacy dependencies and define a safe, prioritised upgrade roadmap.
- **Laravel12 Upgrade:** Executed a phased migration to Laravel12 across each module, resolving breaking changes and validating system integrity at every step.
- **Zero-Disruption Delivery:** Delivered all upgrades alongside continuous feature development and maintenance with zero disruption to live healthcare services.
- **Compliance Assurance:** Maintained full data integrity and regulatory compliance throughout critical requirements for a platform operating in the medical services sector.

## Implementation / Work Done

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### Technology Modernisation — Laravel12

- Migrated all four platform modules from legacy Laravel versions to Laravel12 the current, most advanced stable release of the framework.
- Resolved all breaking changes, deprecated dependencies, and incompatible packages introduced across major version gaps during the upgrade process.
- Refactored legacy code patterns to conform with modern Laravel12 conventions, improving maintainability and scalability across all modules.

### Feature Development & Enhancements

- Delivered continuous new feature development and platform enhancements throughout the engagement covering everything from minor improvements to significant new healthcare service capabilities.
- Introduced and evolved platform features in response to changing client requirements, user feedback, and medical sector regulatory developments.

### Ongoing Maintenance & Support

- Provided sustained bug resolution, performance optimisation, security patching, and platform support throughout the engagement.
- Ensured continuous platform reliability and uptime, protecting the live service operations of healthcare professionals and patients at all times.

## Outcome

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The modernisation programme and continuous service delivery produced the following measurable improvements across the MEDSU platform:

<p>◆ <b>Legacy System Eliminated</b></p>	<p>Successfully migrated all four modules to Laravel12, removing end-of-life dependencies and security risks across the entire platform.</p>
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<b>◆ Performance Improved</b>	Modern Laravel12 stack delivered measurably faster response times, improved reliability, and better scalability for healthcare service delivery.
<b>◆ Security &amp; Compliance Strengthened</b>	Platform now operates on a fully supported, current framework maintaining ISO 27001 alignment and healthcare data protection standards.
<b>◆ Platform Scalability Achieved</b>	All modules now operate on a modern, scalable architecture capable of supporting long-term growth and evolving healthcare requirements.
<b>◆ Uninterrupted Service Delivery</b>	All upgrades and improvements were executed without any disruption to live services relied upon by healthcare professionals daily.