CASE STUDY

EHR APPLICATION REPLACEMENT FOR A HEALTHCARE COMPANY

TECH STACK:

- **.net**
- **Angular**
- **Azure**
- **RabbitMQ**

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CHALLENGES

The client faced significant issues with their legacy EHR, prompting a remediation team to validate critical records:

- Legacy EHR Limitations: Rigid system design, slow performance during peak hours, and poor interoperability hindered data exchange.
- Operational Pain Points:
  - Clinician burnout from inefficient navigation (7+ clicks per order)
  - Workflow delays and manual transcription errors
  - Data silos increased regulatory risk
  - Suboptimal patient experience

SOLUTIONS

Euphoric developed a modern, cloud-based EHR that addressed the client's core challenges:

- Architecture: Modular, microservices-based EHR hosted on Azure AKS for scalability and resilience.
- Integrations & Security: HL7 via Mirth Connect, FHIR API gateway; secured with Azure AD, OAuth 2.0, AES-256 encryption, and TLS 1.3.
- Reporting: Interactive dashboards with Power BI Embedded and advanced analytics via Azure Synapse.

BENEFITS

The successful rollout of the new Electronic Health Record (EHR) system transformed healthcare delivery across the leading hospital chain, establishing a benchmark for operational efficiency and clinician well-being.

- Seamless Transition:

Over an 18-month engagement, the legacy, inefficient EHR was replaced with a cutting-edge modular platform, ensuring minimal disruption and smooth adoption.

- Efficiency Gains:

The new system delivered a 50% reduction in chart retrieval time and a 35% decrease in medication order turnaround time, significantly optimizing clinical workflows.

- Enhanced Clinician Satisfaction:

Clinician satisfaction soared from 42% to 85%, underscoring improved usability and streamlined workflows that directly support frontline care providers.