

Problem Statement

- Healthcare providers in the U.S. face significant challenges in efficiently managing and coordinating patient care across diverse systems. They require advanced, HIPAA-compliant SaaS platforms that can centralize patient health data, streamline clinical workflows, and enhance care delivery.
- These platforms should support features such as EHR management, patient care management, electronic prescriptions, and pharmacy claims processing while ensuring compliance with Meaningful Use Stage 2 standards.

Solution

- A HIPAA-compliant SaaS platform that automates EHR management, patient care coordination, and clinical workflows. It streamlines tasks such as data retrieval, e-prescriptions, and pharmacy claims, while ensuring Meaningful Use Stage 2 compliance.
- The platform enhances interoperability, reduces inefficiencies, and improves care delivery.

Benefits of our solution – how it helped in BET

- ★ The solution enhances profitability by streamlining clinical workflows and reducing administrative overhead. It lowers operational expenses through automation, boosts care coordination, and ensures compliance with Meaningful Use Stage 2. This leads to improved patient outcomes, higher reimbursement rates, and greater revenue opportunities for healthcare providers.

Challenges

- ✔ **Data Integration:** The application's tech stack migration from Ruby on rails to .Net technology.
- ✔ **FLshots integration:** Transferring immunization data to federal government Achieving high accuracy in AI/NLP models to analyze clinical data and predict outcomes while minimizing errors and biases.
- ✔ **Database development:** Initially the application did not adhere to normalized architecture, data redundancy, had poor query writings and table structures that were tightly coupled affecting flexibly.
- ✔ **Performance challenge:** With increase in user numbers the performance of the overall application slowed down. To address this denormalization, proper indexing, managed fragmentation and unique identifiers removal were done for achieving optimal performance.

Technology Details

- Backend: ASP.Net 4.0, ASP.Net MVC 2.0, Entity framework and MVC 3.0
- Database: MS SQL Server 2014 R2

[Read More](#)

Screenshots

