

Case Study

IDEAS2IT 

How we **implemented**
a global integration
platform for Dr. Agarwal's
HIS / EMR / ERP
landscape



The Client Context

Ideamed is a comprehensive HIS/EMR built for customization from the ground up by leveraging a low code platform. It has 32+ modules and 700+ screens to provide all the functionalities required to run a chain of hospitals.

Dr. Agarwal's is a global player in eye care with 90+ hospitals spread across 11 countries and serves millions of patients across the globe.

Ideamed was implemented at all Dr. Agarwal's 90+ hospitals, with meticulous handling of the complexities arising from differing currencies, tax regulations and compliance requirements. But the client did have multiple systems running in silos in various branches.



The Requirement

The implementation of Ideamed at Dr. Agarwal's required a holistic integration platform that could connect various enterprise systems across its IT landscape, catering to HIS, EMR, Procurement, Financials and more.

The Solution

We at Ideas2IT ran a discovery project to catalog the landscape of applications and data flow requirements. Based on the derived from this exercise, we designed a common integration platform on Mulesoft.

Mulesoft was chosen for its robust architecture and support for multiple protocols and integration to Spring framework.



Financial Data

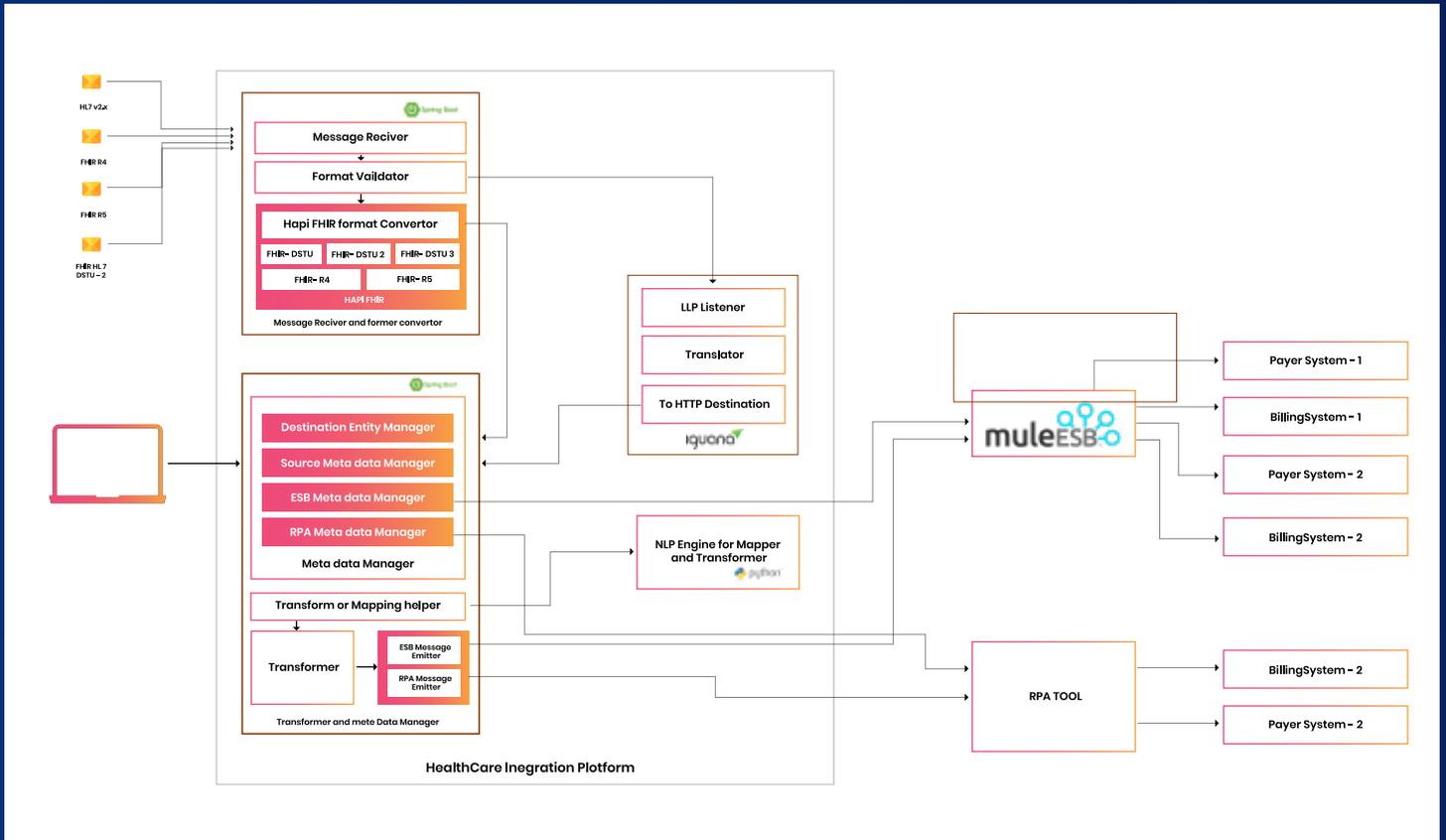
Ideamed HIS was enhanced to generate transactions relevant to financial ERP and post it to Mule. Mule would then map the HMS JSON to Oracle Netsuite format and proceed to integrate with Netsuite using the Netsuite connector.

Using the Quartz Connector in Mule, data requested by the HMS are fetched from the Mule Database at specified time intervals and integration is done with the Netsuite system.

EHR Data

As different EMRs supported different standards like HL7, FHIR, EDI, etc., we leveraged MuleSoft's Anypoint Connectors to handle HL7 messages by using HL7 MLLP connector to send and receive messages, and the HL7 EDI connector to interpret the HL7 message.

Given that HL7 is a loosely defined standard and two different implementations of HL7 can represent data differently, we implemented a robust data mapping layer to map the source data format to a source neutral layer (SNL). Then, the SNL was mapped to the canonical data model of the Data Warehouse.



The Benefits

The platform enabled for seamless data flow between the various dominant systems in Dr. Agarwal's IT landscape. This led to powerful end-to-end workflows and reporting.





About Ideas2IT

Founded by an ex-Gogler, Ideas2IT started its journey as a high-end product engineering partner for Silicon Valley startups. Ideas2IT has produced 150+ top-quality applications for 100+ clients such as Microsoft, Oracle and Opportun. Ideas2IT offers specialist capabilities in the domains of Data Science, IIoT, Blockchain, Cloud-based SaaS, Robotic Process Automation, Frontend, Backend & Fullstack Development and Intelligent Chatbots.

To know more, talk2us@ideas2it.com or visit www.ideas2it.com

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