



Case Study

Secured Medical Information Platform

Multi-layer Medical Information Platform

Business Need

We worked with our customer in the healthcare industry to provide an integrated information flow platform. The data flow had to be very secure with several layers of security and scalability to their future needs.

- Data flow between various labs and facilities behind multiple firewalls;
- Protection against intrusions and hacking;
- Multiple layers of security;
- Protection against data flow faults and roll-back structure;
- Role based security and HIPAA compliance;
- Scalable architecture to change databases conveniently;
- Safeguard of data structure so that limited resources have actual data structure information.

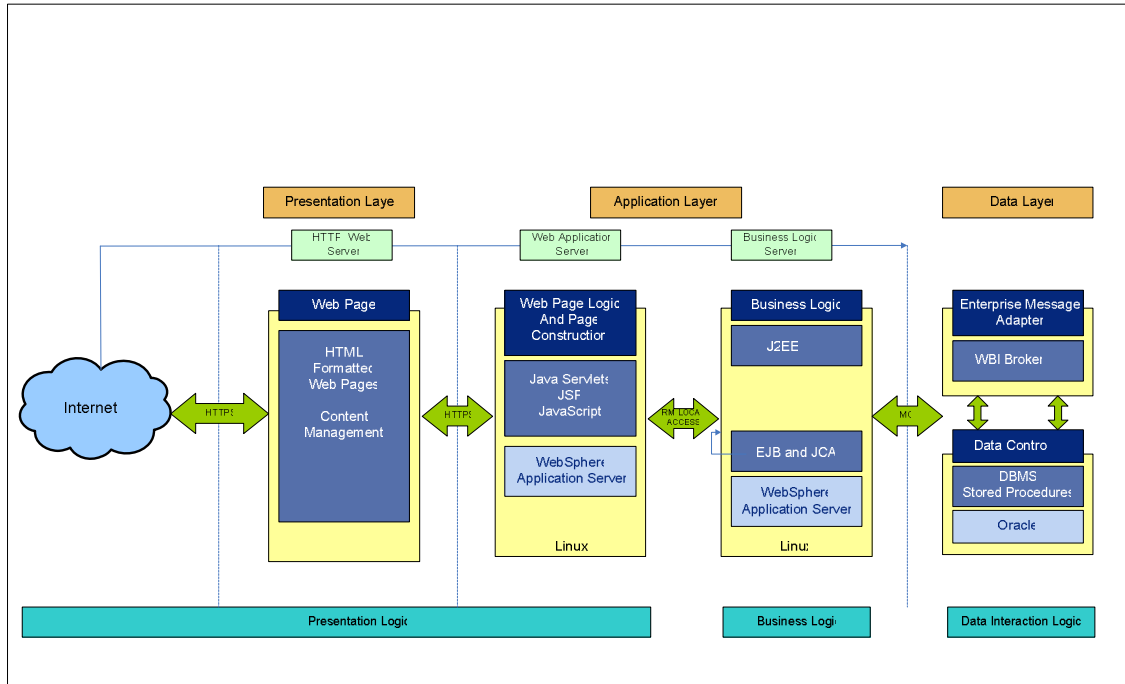
Solution

The Hytech team worked with the project sponsors to understand each of the business needs – functional as well as non-functional – to come up with the following structure:

- J2EE architecture with SOAP
- Tools such as JDBC 2006, database integration with Oracle 10i.
- Web Sphere MQ (IBM Message Broker middleware);
- Struts;
- EJB
- Hibernate
- Crystal Reports

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High Level MQ Architecture

Our Role

HyTech Professionals ably engaged on this project as an extended software development partner. Our team of software architects and systems engineers built and tested the complete solution.

Solution Benefits

We delivered the solution to our customer – a healthcare chain – with immediate savings:

- ▶ Sharply reduced TCO owing to the equivalent (or better, in some respects) functionality delivered by HyTech.
- ▶ Cost savings over 35% overall
- ▶ More accurate modeling of new labs and data flow structure.
- ▶ Tighter security due to MQ implementation, and data flow between firewalls via message broker framework
- ▶ A 45% reduction in IT support cost for this new system.
- ▶ A 21% increase in staff productivity due to an intuitive flow.

We are now working on the next phase to integrate more labs and systems.

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