

Second Foundation, Inc.

Project Case Study



Interface between ATG Dynamo powered portal and Healthcare Lab

The Customer:

Caresoft Inc. and a major Healthcare Lab

Problem / Background:

Caresoft Inc's healthcare portal (powered by ATG Dynamo) needed the ability to enable its users to check their lab results via the Internet. The lab results had to be fetched from the Healthcare Lab while the user was still online.

Second Foundation and the customer agreed that the problem should be addressed via a custom Java-based connector solution to interface between the ATG Dynamo powered healthcare portal and the Healthcare Lab.

This connector had to be a robust and secure process with extensive configuration, error handling and recovery.

The Solution:

Second Foundation developed a Java/JDBC/XML connector solution which interfaced between the web based front end and the Healthcare Lab via MQ series Queues. As part of the solution, SecF made several performance enhancements to existing ATG beans, the JHTML based front-end and the existing database.

The connector polled the database for new requests coming in from the web front-end. It then formulated a request and sent it over to the Healthcare Lab application via MQ series Queues, and waited for a response. The response was encoded in industry-standard HL7 format. The connector parsed the response and populated the key elements of the lab results in the database.

SecF developed ATG beans / JHTML pages to pick up the results and display them to the user.

The solution was designed to be highly configurable, reliable and scalable. It had a robust error handling mechanism which interfaced with the monitoring system to display any problems occurring in the system. The solution supported MQ clustering to provide fault tolerance. The software also provided extensive error logging and tracing.

Key Features / Technologies:

This software was developed entirely in Java, on Solaris 2.7 and Windows NT. The ATG Dynamo related components included ATG beans and DHTML pages.

The software was multithreaded throughout, and this ensured high scalability. The connector could connect to multiple MQ series queues, send multiple messages over the queues and simultaneously receive the data back from the queues. It employed database connection pooling in order to further enhance performance and throughput.

Second Foundation

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