

Equity Research & Industry Analysis

A faster, automatically updating, cost-cutting system

The Client:

A leading India-based global credit rating agency, financial research and advisory company with operations in India, US, UK and the Caribbean.

The Problem:

To replace existing front end client-server presentation system for equity research products with a Web-based, freely distributable and secured system with capability to automatically update itself with latest research reports on daily basis for achieving better responsiveness to customers' information requirements.

The Solution:

Harrier delivered a new Web-based solution with encrypted data; open source, freely distributable components and secured, over-the-Web automatic update capability that enabled the client achieve better customer satisfaction by providing analysis of market and industry events in a more presentable manner, faster and at lower cost.

Challenges & Solutions

1. Local installation at the client location

The whole site is distributed to each client with data and content specific to the services subscribed by the client

2. Online updates

The front end system at client end automatically updates itself with the latest released content for the services subscribed by the client by opening a connection to the server and download the content using HTTP protocol to avoid firewall issues.

3. Full text search

Used readymade, open source component called Lucene for implementing full text search in the system.

4. Encryption of content

Encrypted the content using classes from Java Crypto package, that is decrypted before presenting to user.

5. Freely distributable database management system in order to save licensing cost per client

Used free and open source PostgreSQL as RDBMS, that follows BSD license.

Technology Environment:

PostgreSQL, Java 1.4.2, Jakarta Tomcat 5.0, JSP, Servlet

Team Size: 4

Duration: 6 months

The Solution Architecture:

