Case: Voyage Management System

BACKGROUND

Client: *Singapore based maritime company, managing ships.*

Maritime companies' are majorly cargo movers by ships. These ships are like a vehicle, which needs route planning for moving between ports on the global waters. Therefore, voyage planning includes:

- Keeping track of actual voyage execution and process
- Maintaining historical records of voyage activities
- Monitoring events that affect operational efficiency

CHALLENGE

1. Difficulty in getting & maintaining details such as position, weather, and ballast, amongst others
2. Daily reporting was virtually impossible
3. Monitoring & comparative analysis was a difficult job.
4. Analyzing past reports from database was a painful task

RESPONSE

ESQUIRE INFOLAB SYSTEMS has designed and developed an intelligent application called VMS(Voyage Management System) using .Net with SQL Server 2008 / SQLlite for both WEB & WINDOW(Standalone) applications to run in a LAN as well as INTERNET environment, with local &/ centralized databases.

*This system has the ability to migrate updates from vessels & integrate the data to the central server without any human intervention. (Moreover, updates get converted into an XML files which are further zipped to make file size very small (e.g. 8kb) and can be sent through low satellite bandwidths.)

*AUTOMATION

OUTCOME

1. Effective Planning for cost-effective voyage
2. The consumption of fuel, speed & weather forecast can be monitored & checked
3. Exhaustive log files that keep track of all voyage records can be viewed for instant perusal and reference
4. Daily reports from vessel & vessel position can be tracked at any time
5. In an office based model, the history of the voyage details of all the vessels can be Shared
6. No human intervention is reqd. to integrate data between vessel & office

SCOPE

This application can be universally implemented in any Shipping/Maritime organization. It has been thoroughly designed & developed to cater to the basic voyaging needs of vessels moving in the global waters.