

Business Situation

This customer is the largest private steel manufacturer in India. Being a leading industrial house, this customer is in the process of meticulously setting up a very massive steel plant in India and is currently one of the largest conglomerates handling this very large investment in India. This is scheduled to be completed in 4 years and is funded with a combination of debt and equity.

During these ensuing years, there is no visibility to the assets deployed within the plant and hence it becomes imperative as to how and where the money spent is taking shape. This company needed a feel of the prevailing picture in real time and to build an asset picture as and when the asset builds up. This provides a tremendous confidence to the lenders and financial institutions on the asset value.

Solution

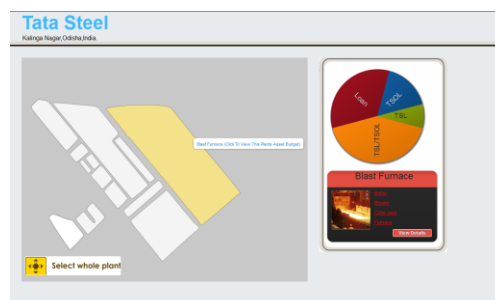
The fundamental challenge was to come up with an asset register in real time as and when the expenses get incurred. Some of the information is offline and some more information was online. The objective of the project is to show this offline information and the online information through a very intuitive User Interface (UI). It should also have the provision to print this Asset Register on demand.

Online information like PO's and Goods Receipt Notes are available in their System of Record (SOR) systems. The system compiles all online data available from the system of records automatically. These information and along with their soft copies gets directly appended to the asset system from the SOR's.

Offline records like payments and their associated offline records like vendor invoices are scanned so that it can be added up at run time. These are added as and when these invoices and payments are paid against it. This gives a complete picture of the asset, its physical location and the total expenditure against that asset. An audit trail gives a complete picture as to how the value of a particular asset was accrued.

The system also keeps track of all the manually scanned invoices and at run time gives the purchase orders that need invoices scanned. Daily scanning, i.e productivity of scanning is also shown. The system was required to be built on the internet architecture, so that information could be accessed and viewed from anywhere, thereby providing the necessary empowerment to the user of the information needed on demand.

The projected view was of a dashboard view. The whole lay out of the plant gets displayed on the





screen and on clicking on each broad area of the plant, the asset expenditure, the receipts and the payments against that respective transaction gets displayed. So by pointing to the different areas /locations of the plant on the browser, it is possible to get asset view /visibility or the needed printout for that area of the plant.

Technology Decision

For a successful implementation of the solution it was mandatory to have a technology which needed to have the following characteristics. They are:

- The technology needed to generate very rich User Interface (UI), so that the application gets interactive over the web with a very stateless server side programming environment which was a requirement.
- The document storage should be native. To make the platform light weight,, the storage of document should be done as a light weight implementation.
- The system should be as near real time as possible, so that a technology that has constructs with multiple threads as foundation needed to be selected.
- All these technical features need to be packaged in a simple easy to use platform, so that people with simple skills and understanding can effortlessly run this program.

Benefits of MasterKube

MasterKube is an open system platform built ground up to serve an interactive world. MasterKube technology is based on a new computer science algebra that has a unique agent based technology. This reliance on new programming paradigm leads to a systems that has

- a) No exception Management,
- b) Light weight state less systems,
- c) Simple to learn but power programming language,
- d) Multi-threaded programming environment.

In addition to all of the above, with MasterKube it is possible to create custom data types which can take files.

Most importantly, the system also provides language constructs to build complex business processes. The system is exposed as REST interfaces. The UI has a rich internet application interface that talks to MasterKube through REST interfaces.

MasterKube technology was selected precisely because of these unique advantages.