



HOSPITAL ANALYTICS CASE STUDY

Customer

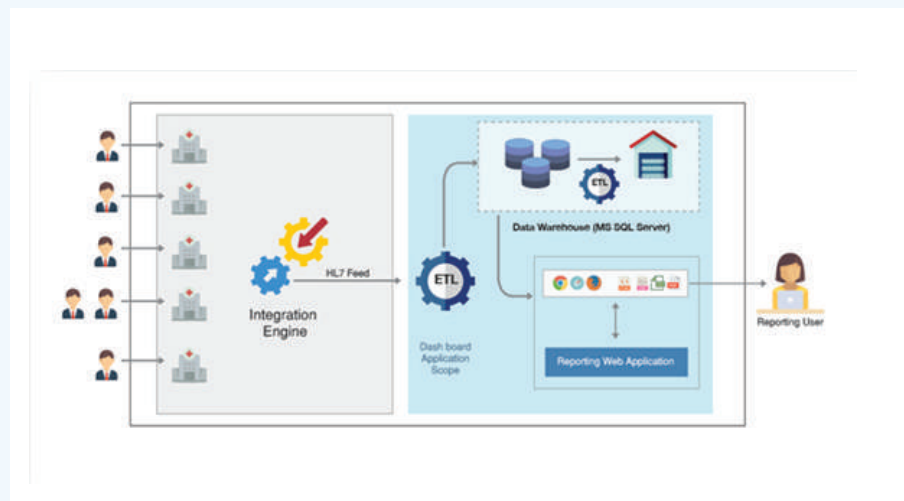
A leading global healthcare product company from Middle East.

Business Need/Challenges

An analytics system and dashboard to visualize the healthcare information data and other essential metrics to analyse the data and measure the overall performance of any hospital network. The dashboard should provide an integrated view of multiple hospitals across multiple departments, service lines and functional lines. The system should combine data from different sources like HIS, RIS and PACS. It should provide graphical representation of the data with the graphical charts/reports in a web portal. Dashboard system should retrieve hospital data from HL7 feeds sent by different hospitals in the network.

Solution

- Quick analysis of trends and KPIs
- Dash boards for quick reference
- Detailed analysis of dashboard
- Real Time Operational Reports
- Retrospective Data & Reporting
- Access data from HIS , RIS and PACS
- Web portal interface
- Reliable & Relevant Data
- Trends & Benchmarks Analysis



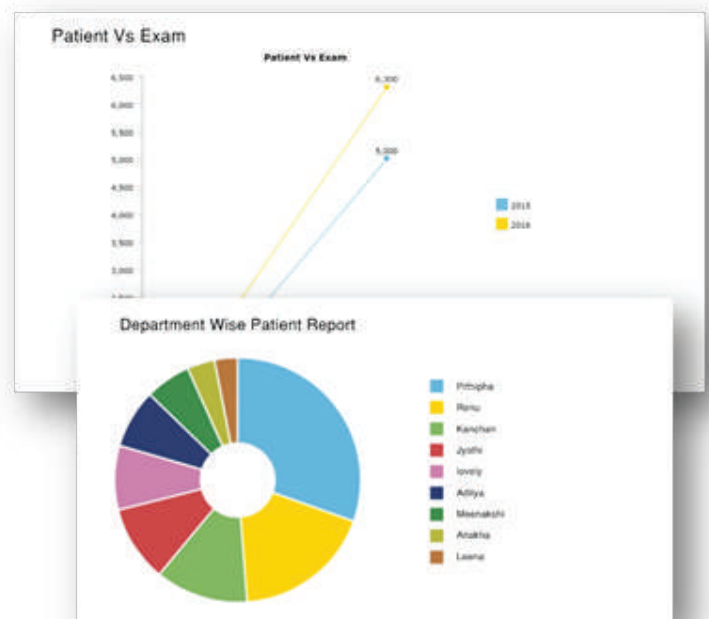
Data Retrieval and Warehousing

- Interface with Hospital system to retrieve the HL7 data.
- Parse HL7 data messages retrieved from HL7 feeders from different hospitals.
- Store the data in operational database and data marts.
- Master data configuration in data warehouse.
- Create user roles and privileges settings.
- Settings for hospital system administrator.



Analytics & Reporting

Following are the various reports and charts designed for the dashboard to display various production and patient outcomes.



Technologies Used

- Java
- HTML5
- AngularJS
- Pentaho
- JasperReports
- amCharts

SFO Role

The complete ownership of the Requirements gathering, design, development and system testing of the application. SFO Technologies was a natural choice to develop the solution because of the strong domain and software Technology expertise