Description:

Background: The National Quality Forum (NQF) is a unique, multi-stakeholder organization that has been instrumental in pushing efforts to improve quality through performance measurement and public reporting. NQF is a private, not-for-profit membership organization representing virtually every sector of the healthcare system. NQF operates under a three-part mission to improve the quality of American healthcare by:

- Setting national priorities and goals for performance improvement.
- Endorsing national consensus standards for measuring and publicly reporting on performance.
- Promoting the attainment of national goals through education and outreach programs.

Clinics / Practices using certified EHR technology are expected to meet the NQF required objectives. The measures are broadly of 3 types

- **Core Measures** which are 3 in number all of which need to be reported

- **Alternate Core Measures** which are 3 in number and come into play depending upon how many of the core measures have a zero value for the denominator

- **Additional Measures** of which 3 need to be reported

The list of NQF Measures currently being handled by the EHR is as follows :

Core Measures

- **0013:** Hypertension: Blood Pressure Measurement

- **0028-a:** Preventive Care and Screening Measure Pair: a.Tobacco Use Assessment

- **0028-b:** Preventive Care and Screening Measure Pair: b.Tobacco Cessation Intervention

- **0421:** Adult Weight Screening and Follow-Up

Alternate Core Measures

- **0024:** Weight Assessment and Counseling for Children and Adolescents

- **0038:** Childhood immunization Status

- **0041:** Preventive Care and Screening: Influenza Immunization for Patients >= 50 Years old

Additional Measures

- **0018:** Controlling High Blood Pressure

- **0032:** Cervical Cancer Screening

- **0034:** Colorectal Cancer Screening

- **0043:** Pneumonia Vaccination Status for Older Adults

- **0052:** Low Back Pain: Use of Imaging Studies

For more details visit

http://www.qualityforum.org/About_NQF/FAQsHelp.aspx

http://www.cms.gov/Regulations-and-Guidance/Legislation/EHRIncentivePrograms/Downloads/CQM_EPs_2012_02_02.pdf

Project Overview:

The **NQF Measures utility** is a dashboard which displays where your Practice stands when measured against the set of core requirements from NQF. The utility also provides necessary information to meet each individual NQF Measure's objectives.

Project Description:

Technology:

The UI comprises of the interactive and animated Kendo-UI charts, custom designed and applied using client side technologies (like jQuery, CSS). The UI is tightly coupled with the WCF service in background which is used to fetch data available for the clinic.
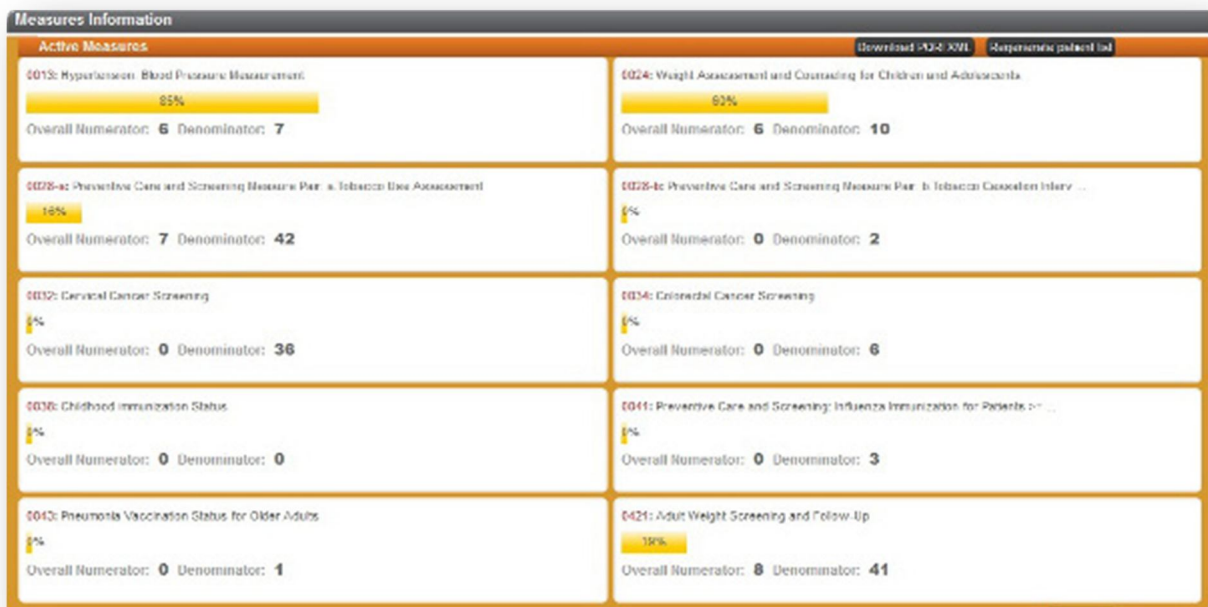
Work engine:

Each clinic within the EHR needs to be parsed against each of the NQF measures. The parsing request of the clinic is stored and a confirmation mail is sent to the required email Id once the clinic is successfully parsed.
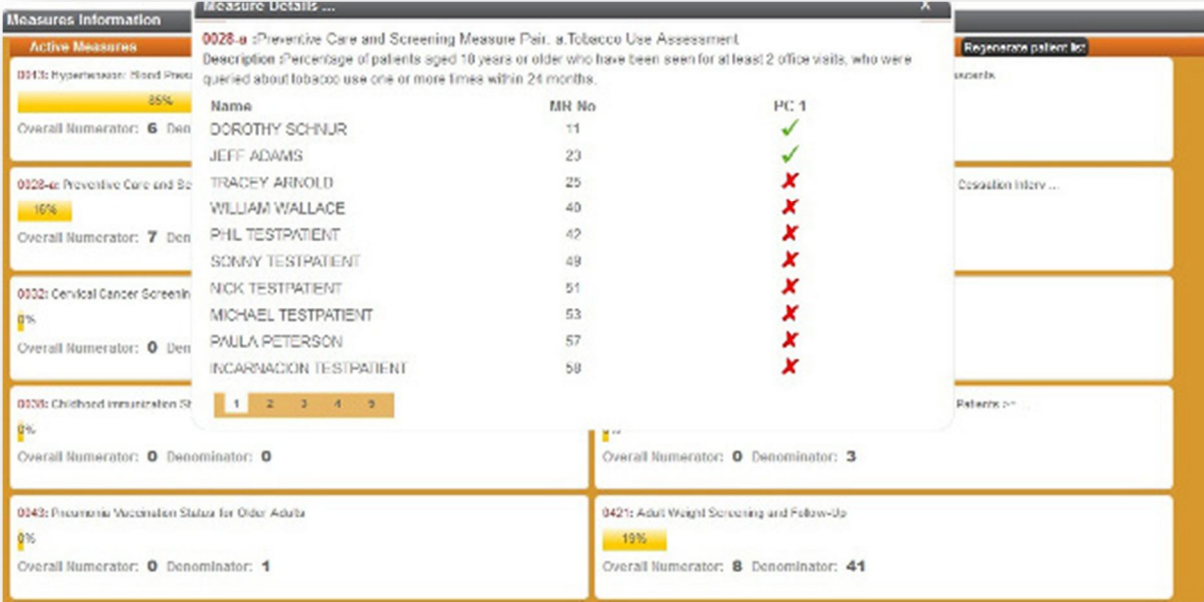
There is a windows service in the background which regularly (at certain fixed time intervals) looks at the new requests made for parsing clinics and does that one by one and stores the related DB details.

The UI (web interface) requests the web service to look into those details of clinics (which gets populated by windows service), and shows those details in an interactive way. In the UI, there's an option to re-parse the clinic for NQF measures. Also one can download the corresponding PQRI xml file (which contains the overall summary of NQF Dashboard).
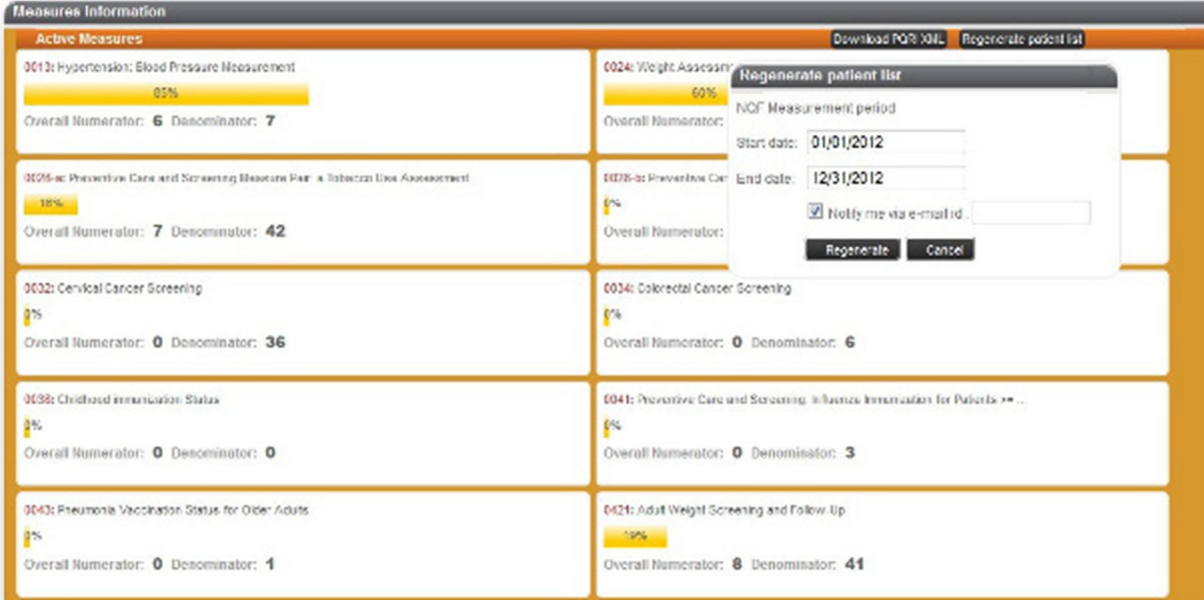
Screen Shots:

NQF Dashboard snapshot 1

NQF Dashboard snapshot 2

NQF Dashboard snapshot 3