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Client

This is a project undertaken to demonstrate SFO's technical capability in the emerging areas of Healthcare IT such as m-health, the SMART platform, FHIR specifications, etc. Such EHR-agnostic apps can be created on behalf of any customer, using generic / proprietary algorithms for predictive analytics based projection of outcome probabilities.

Business Need

SFO develop generic mobile apps that could use proven medical algorithms to analyse a patient's historical health information and make predictions about outcome.

Business Impact

- a) Free and open source tools and resources simplify app creation
- b) Reduce cost and complexity of integrating with customers' EHR systems
- c) Empower users to decide which health IT products are beneficial and valuable
- d) Simplify the integration of best of breed components into existing systems
- e) Ability to easily draw on a library of innovative apps encourages market competition on quality, cost, and usability
- f) Apps distributed widely, could reshape practice overnight

Components and Technologies

Technology

- EMR
- HTML, Javascript, CSS, Angular JS, Node JS
- OAuth 2
- Native Mobile Application on Android
- PubNub
- WebRTC
- FHIR
- Firebase

Solution

SFO used the SMART infrastructure to create healthcare apps and published them in the SMART open app gallery for potential end users. It is a plug and play platform where interfaces can be changed according to end user needs (APPS can be substituted as per clinical needs). It hosts mainly web applications; however mobile apps may also be used for live consultations.

Highlights

- Open App Gallery exposes innovative apps to potential customers
- Integrate new data into systems, mashing up clinical records with external data sources and incorporating new flows of data from sensors, devices, and patient reports
- Add new capabilities to existing systems, for example to visualize risks, trends, and trajectories
- Transfer ideas, functionality, and workflow all in one package
- Decision support can be updated without the need to customize for each EHR, supporting rapid response during outbreaks and as guidelines change

About SFO

SFO Technologies Pvt Ltd, the flagship arm of the diversified conglomerate, the NeST Group provides end-to-end design-engineering-software-manufacturing solutions to clients across geographies such as the USA, Canada, Europe, Middle East, South East Asia, Japan, Australia, and India. SFO has invested in building competence, scale and standards compliant process framework, in PCBA, fibre optics, Cable & wire Harness, Magnetics, High Level Assembly, VLSI design, embedded software development, etc. SFO's capabilities transcend the plain vanilla "Build-to-Spec or Build-to-Print" EMS and our ODM+ solutions are rapidly re-defining standards for the OEMs across Aerospace & Defence, Communications, Transportation, Healthcare and Energy & Industrial domains. .



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