Suki: Precision Medicine Informatics

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"Suki: Precision Medicine in the Palm of the Consumer"

Summary

This project is to develop a healthcare data integration platform similar to what mint.com has produced for the online banking domain. We plan to build an analytics platform that brings together electronic health record (EHR) data, patient fitness data, patient genetic data, neurological data, and other environmental information for a highly data rich environment. The goal is to use EHR data to trigger game changing insights into a patient's health as well as create incentives for patient accountability and improved preventative health measures. Use cases will be coordinated with research activities, hospitals, insurance providers and the pharmaceutical industry.

Precision Medicine Required data formats and APIs

1. **FamilyTree DNA**
2. **Ancestry.com raw genomic data files (GEDCOM format)**
3. **EHRs: Cerner / EPIC**
4. **FitBit**
5. **My Fitness Pal**
6. **PubMed**

Plan to use existing research efforts and lessons learned from Seattle Children Hospital's Rainier Project as well as current projects with VCU Health System for best architecture and implementation strategy.