Consumer Health Data Aggregator Challenge

Solution Document

Version 1.0

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Consumer Health Data Aggregator – Solution

In a world of innumerable mHealth apps, wearables, clinical data and connected health devices, our proposed solution (FIT+) intends to serves as a health data integration platform. It is designed to be a vendor agnostic digital health platform for multi-source health data integration & intelligence

How FIT+ works for you as a Consumer:

- Self-Register to FIT+ mobile App in few simple steps
- Add all your health devices and link them with your account
- Start using the app to get a collective data from all your active devices, record pain or any other symptoms, answer preventative goal maintenance questions that are pushed to the app by the providers, set and receive medication reminders and more
- Continuously track all device based data in one app
- Set your own Goals or let the providers set your goals based on a Care Plan and monitor your activities by either auto update of data from the multiple connected devices or manual entry of values
- The app will also enable the consumer to upload CCD file or blue button file which they are eligible to get from any provider and maintain it themselves within their own app
- Now you can share your health data and reports with your providers:
  - Choose specific portions of health data that you would like to share (Advantage of FHIR)
  - Generate reports and share them with the Care circle
- The consumer can also empower a Caregiver or family member to perform one or many of the actions possible in the app by sending them an invitation to download the app and view, update or share data to provider on their behalf.

Domain specific Health data integration Use cases or solutions envisioned:

- Provider
  - Extend the EHR capabilities to encompass consumer generated health data: Collect clinical data, vital and fitness data and seamlessly integrate it into the patient's electronic health record via FHIR API for designing more effective care and services
  - Bridge the gap of diverse health data formats: Transform all data collected from multiple devices & sources into a standard format making them easily actionable and accessible complying with the HIPAA guidelines and the modular FHIR API structure
  - Enhance patient-provider engagement: Review patient-generated data (activity, vitals) between visits to help provider make more accurate diagnoses and engage more effectively with the patient in making treatment choices.

- o Improve discharge programs and outcomes: Visualizing vitals variation based on patient activity, reaction to prescription, food intake and more for in-patients can continue post discharge thereby allowing better comprehension of discharge instructions and confidence of remote care for patients
- o Manage health of population: In addition to wellness, the platform can handle data from claims, EMRs, patient satisfaction surveys and more to track provider goals and improve healthcare in all dimensions
- o Assess the impact of wellness data on population health: Compare patient population treatment progress based on the data from mHealth apps and Wearables between the population that has adopted it and vice-versa for better disease management.

- Pharma
  - o Enrich clinical trials enhanced with behavioral data: Wearables pave way for gathering human behavioral data and the adoption of connected medical devices as personal devices for vitals tracking is picking traction. However, the challenge is in integrating data from multiple vendor apps and devices and standardizing them to make available data - accessible & actionable. Hence clinical trial analysis, can best leverage this data which will enable a more comprehensive view of the clinical trial participants in a seamless and hassle free manner.
  - o Medication / Pill reminders, track medication compliance

FIT+ - Patient Experience Platform Functional Overview