Tufts ID Hack 2015

Project Proposal Notes

02/13/2015

* **Qualcomm**
  + eLimu
    - Kenya primary schools
    - Created digital curriculum and content
    - Every student given tablet (Android)
    - Interactive learning content
  + Issues
    - Downloading content costly
    - $1,000 per classroom every two weeks
    - 14% failure rate of students?
  + Hack proposal
    - Raspberry Pi based caching solution
    - Interface with Brick (Wi-Fi enable device)
    - ***Store offline data for eLimu to use when not connected to internet***
* **Ariadne**
  + Inability to track women and children after they give birth and leave the hospital
  + Mother and baby information recorded in book at birth, but information stays there
  + ***Identify a way to trace moms and babies***
    - Let nurse check in on mothers and babies
    - Who are community leaders? Shop owners? Perhaps can facilitate…
    - Lightweight app for tracking mothers and babies after birth
* **Vecna Cares**
  + Capture critical patient data around the world using in-house designed technology as well as open source software and technology
  + Problem is how to match patients with patient records and track them
  + People often don't spell their names the same way each time
  + ***Implement a fingerprint scanning and recognizing app on Android***
* **EDC – Education Development Center**
  + 2 project pitches
  + First
    - ***Build app that helps teachers send test scores to field office so they don't have to be collected manually by car***
  + Second
    - ***Create video-based app for getting tradespeople video-based training as well as certificates for completing different trainings***
  + Videos and tests provide vocational certification
* **Ecocity Builders**
  + Flow mapping for cities
    - Water flow maps
    - Resource flow maps
  + Data awareness, collection, and quality
  + Software called Metaflow
    - Creates resource flow map from source to sink
  + ***Create app to spatialize the flow map onto a geographical map***
  + Be able to contribute flow data to a collaborative map data repository from which maps are generated
* **Walimu**
  + Uganda
  + ***Create app that allows doctors and hospital managers to keep tabs on what is happening in their wards so they can narrow their efforts on specific areas and patients***
* **Peace Corps**
  + New API - “Peace Corps Opportunities”
  + ***Leverage 2 Peace Corps APIs to make anything***
    - ***One idea is Tinder for Peace Corps***
    - Match applicants with Peace Corps opportunities
* **World Food Program**
  + Ebola crisis
  + Food vulnerability and scarcity
  + 3 data sets provided
    - Price data from Premise for 40 commodities throughout Liberian markets since …
      * Price
      * Qty
      * Volume
      * Geo Coordinates
    - Data from World Food Program
      * SMS and IVR data about food in households
    - Ebola caseload and rate database
  + ***Create interactive dashboard or data viz tool to identify trends, key threats, etc. in the data over time***
* **World Bank - Samhir**
  + Help governments be more participatory with their constituents
  + Data should be more data and design driven
  + Tanzania
    - Problems with data and design
      * Tons of data being taken about students and teachers in school
    - Need to turn data into meaningful stories to use to make decision
    - Design for particular users
      * The users in Tanzania prefer a simple bar chart with 2 bars rather than a stacked bar chart
      * Interactivity in certain data visualizations is useless if data is printed and in black and white
      * Many places still use IE6 or IE7, so when designing stuff, make sure it works in old browsers
    - 3 challenges
      * First
        + ***Use water, education, and budget data to create a smaller scale version of “population-io”***
      * Second
        + ***Build relevant iconography for information that people can immediately use and store***
      * Third
        + ***Create script for digitizing PDF data sets so they are searchable and machine readable***
* APIs available
  + Twillio
  + Socrata
    - Software company based in Seattle
    - Help governments unlock data and make it available to people to see and use