Aircheck

AirAware

Space apps challenge 2016

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Today's Agenda

1. The Challenge
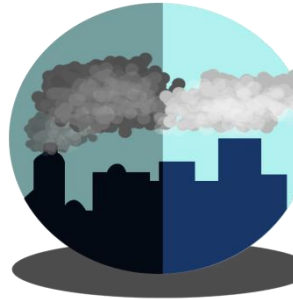
2. The AirAware Experience

3. Use cases

4. Architecture

5. Conclusions

1. The Challenge

The Challenge

Problem
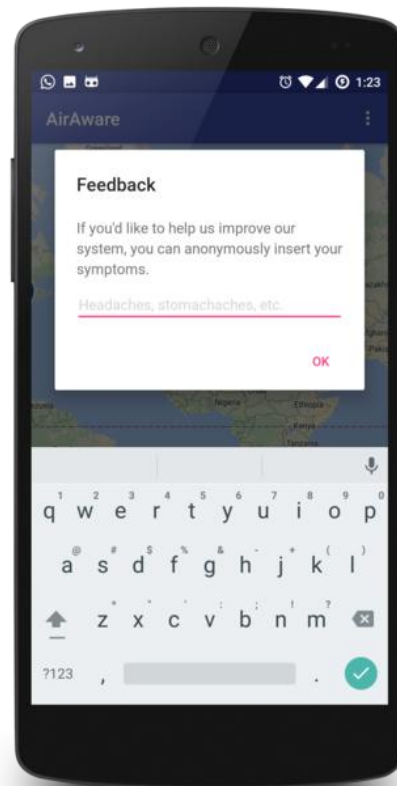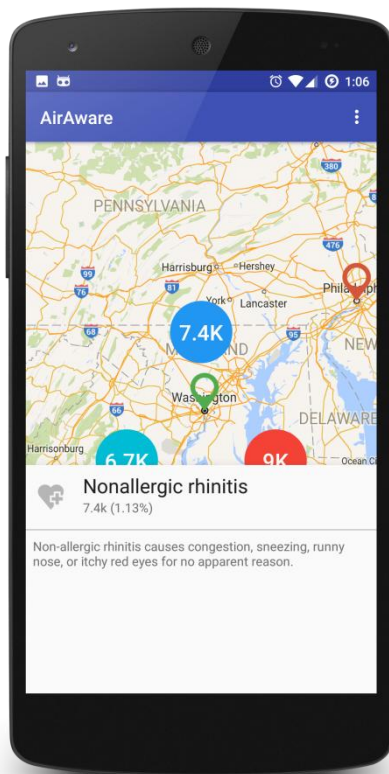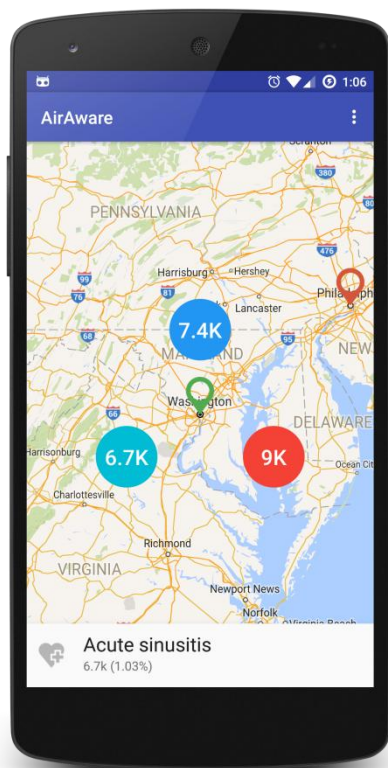- Comparison between air quality and public health

Solution
- Raise Awareness & Empower the People

2. The AirAware Experience

The AirAware Experience

The AirAware Experience

Browse the world map

Easily learn about local air quality

Find about regional health concerns

3. Use cases

Use cases

The will for a healthy life

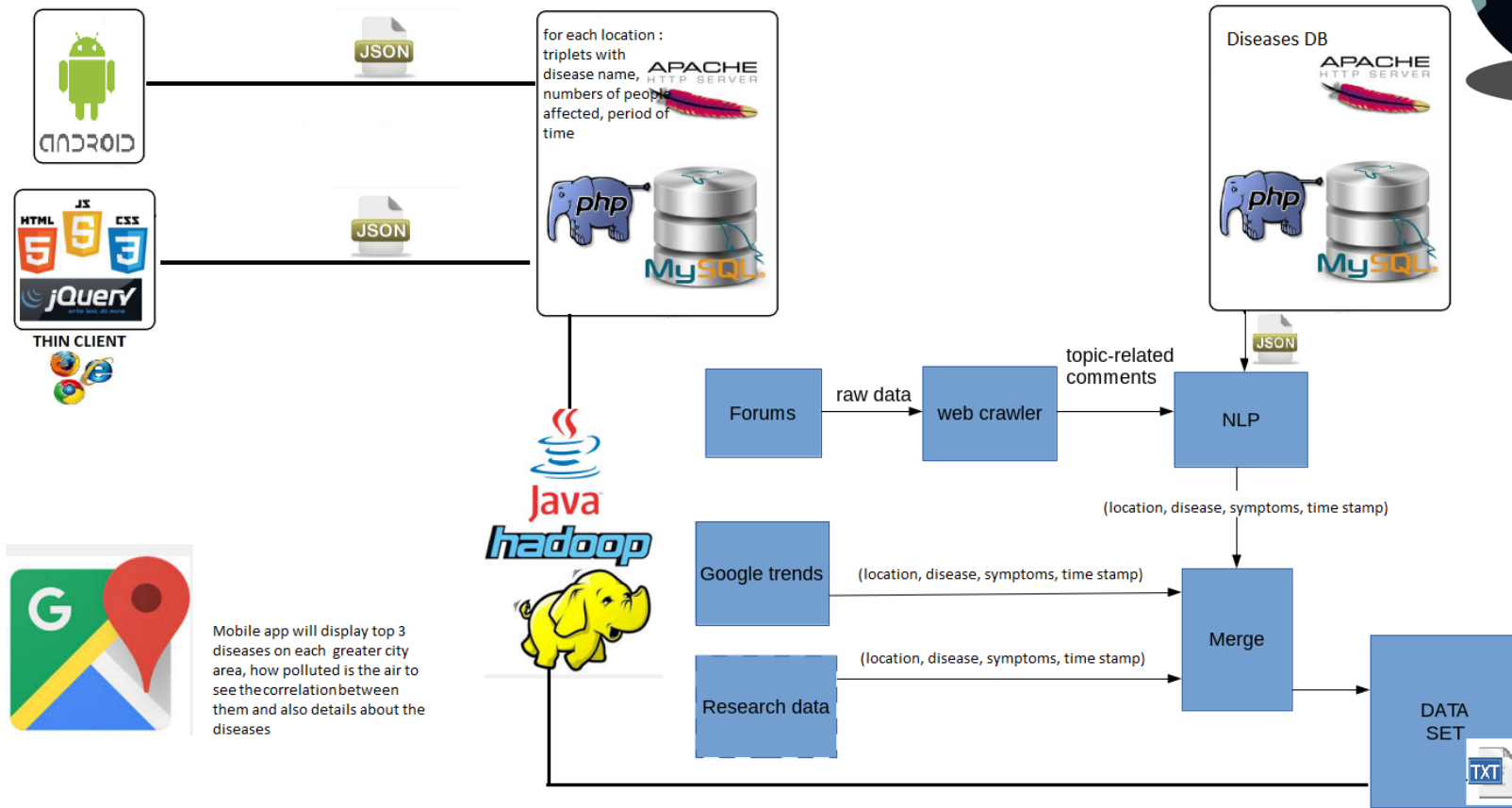Humans' footprint upon the world

Public health monitoring

4. Architecture

Technologies used

google trends

mysql

json

scrapy

hadoop

Python

Android

php

java

google maps

Apache

standford corenlp

Architecture

Product Anatomy

- User interface
  - Querying
  - Crowd Sourcing
  - Physical Data acquisition
- Backend
  - Data collection from the web
    - Medical forums
    - Google trends
    - NASA datasets
    - Research data
  - Data mining
    - Estimate missing pollution data
    - Estimate missing health-related data
    - Aggregate existing data for easy visualization
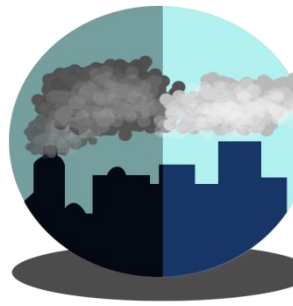
5. Conclusions

Conclusions

AirAware

- brings awareness about air pollution

- empowers people to make better decisions and take care of the planet.

Take home message

Remember we have

One home

Take home message

Remember we have

One hope