AirFit Mobile Application

2017 National Air Quality Conference
National Association for Clean Air Agencies (NACAA)

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ATTAIN
Proven Performance. Forward Thinking.

Introductions

Kevin Brundage: EPA Emissions Inventory System
Project Manager

Victoria Wasem: EPA Emissions Inventory System
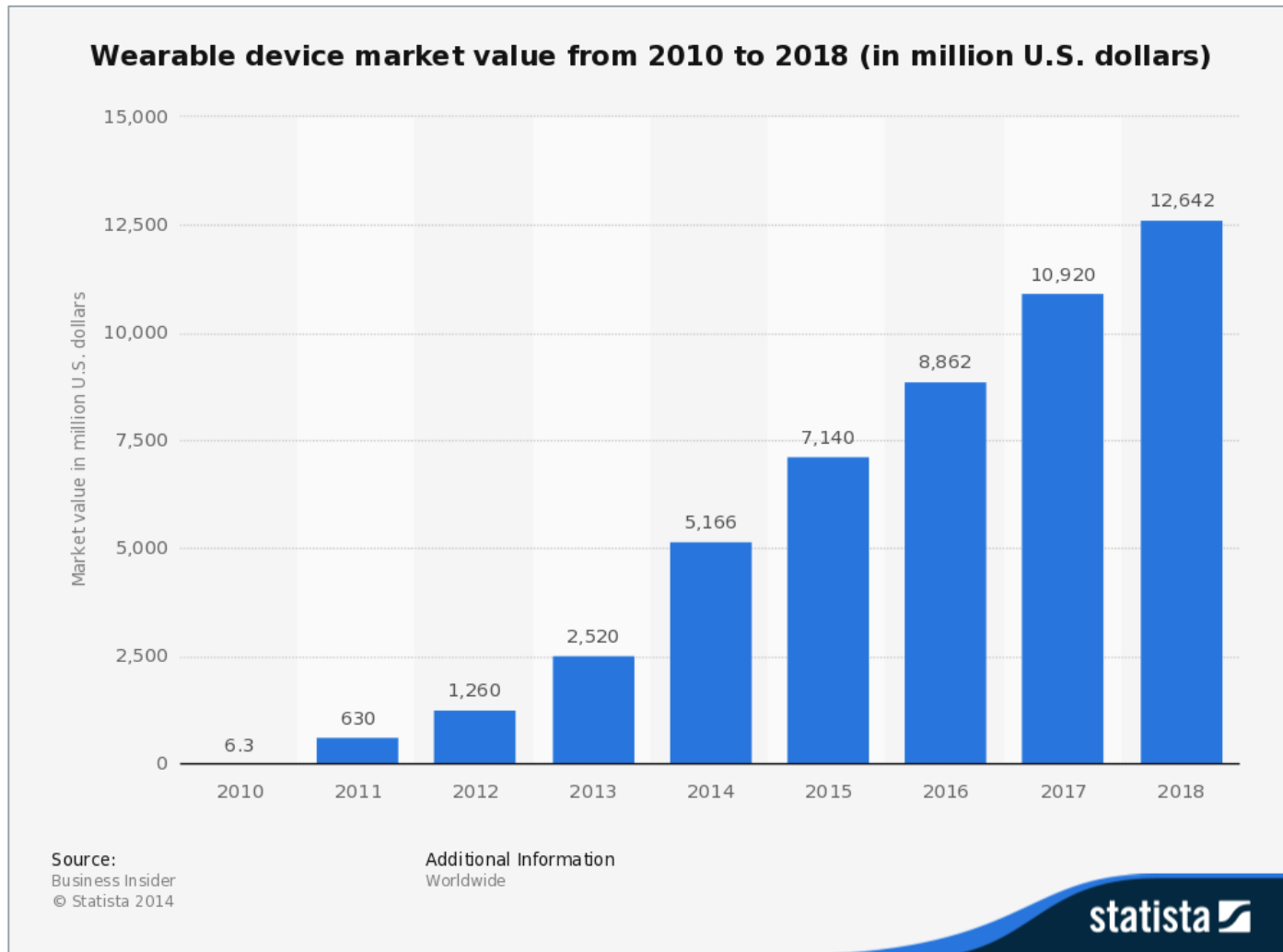Lead Business Analyst and Emissions SME
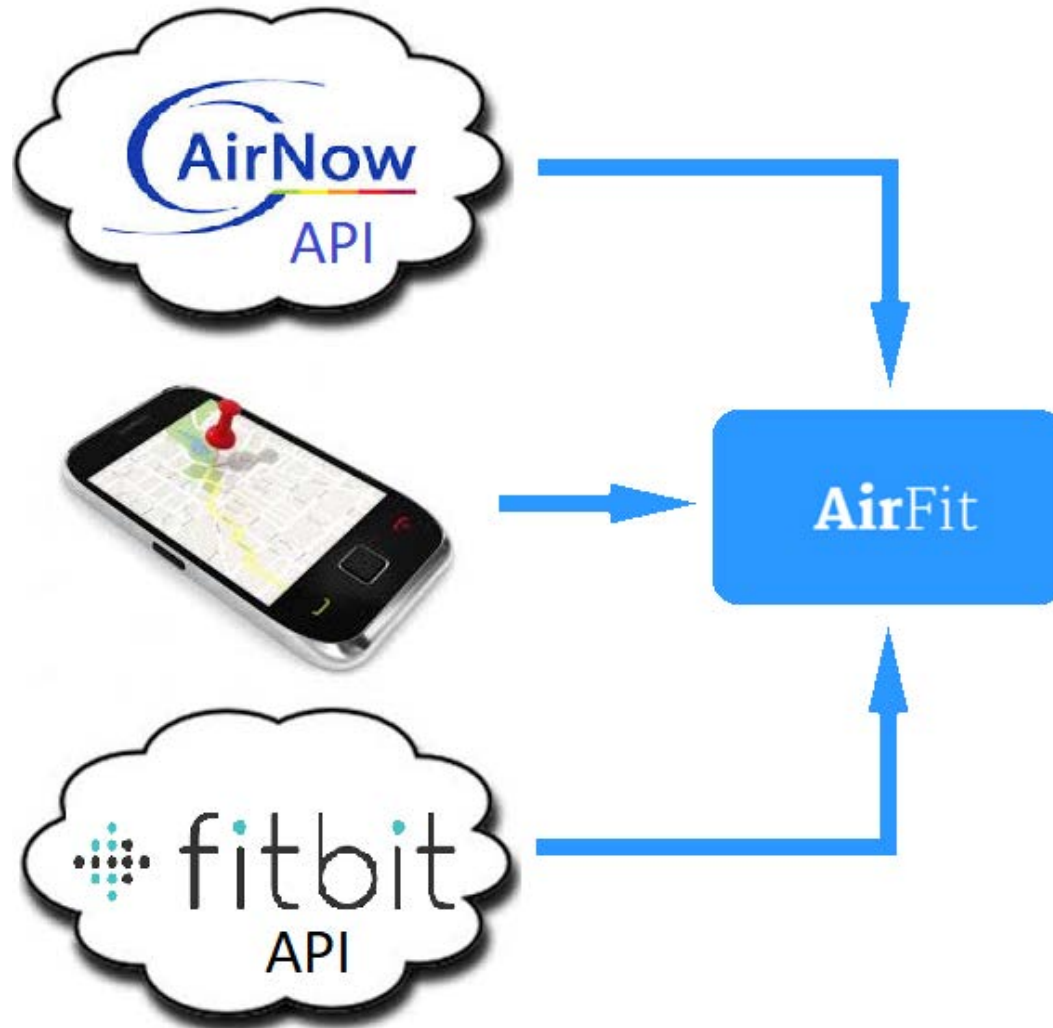
Wearable Tech Providers

Wearable Tech Growth

Wearable device market value from 2010 to 2018 (in million U.S. dollars)

AirFit Architecture

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AirNow Data

AirNow API is publically available and receives real-time air quality observations from more than 2,000 monitoring stations and collects forecasts for more than 300 cities.

- Search for conditions by zip code or geographic coordinates
- Air quality forecasts and action days issued by air quality agencies.
- Real-time air quality observations by reporting areas
- Historical air quality observations by reporting areas
- Specify a distance range, and the web service will return information for the nearest reporting area

Wearable Tech Data

- Daily Activity Summary
- Frequent activities
- Log activity
- Recent activities
- Favorite activities
- Body fat logs
- Activity goals

Integrating AirNow and Wearable Tech

- View the number of steps taken compared to the air quality on a specific day
- Receive information about air quality in my area
- Track personal activity level per day over a period of time
- Track when you exercise indoors versus outdoors
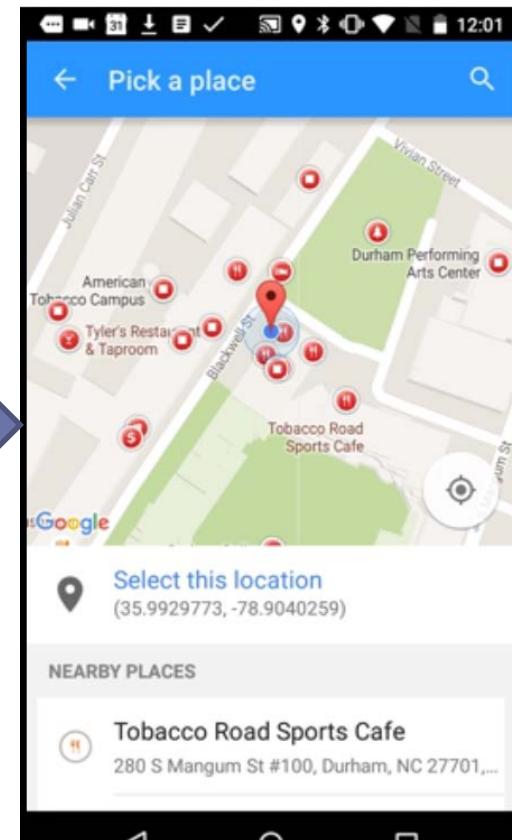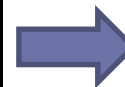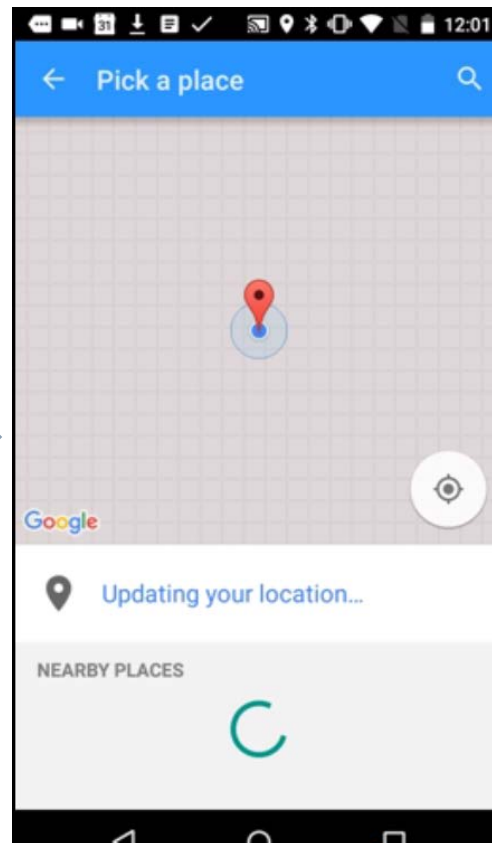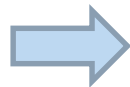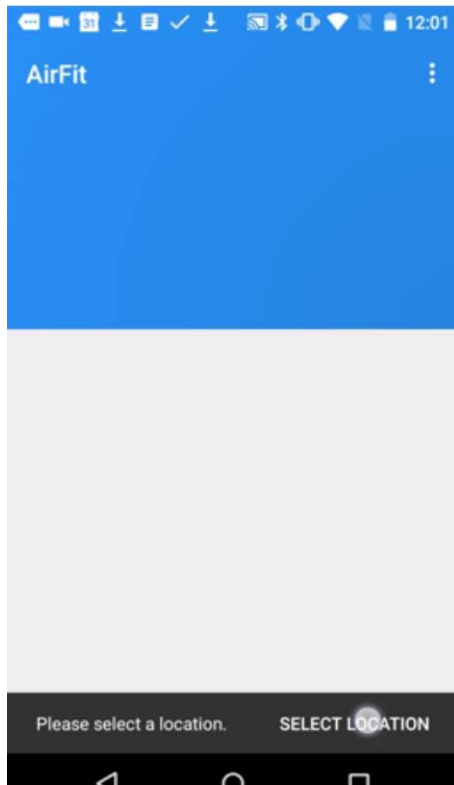- Choose your location to view air quality and the amount of activity you have in that location

AirFit Workflow – Install App
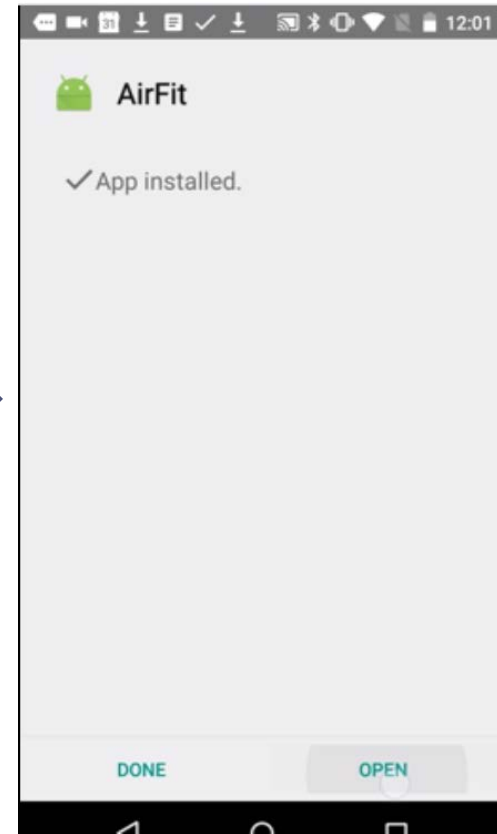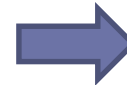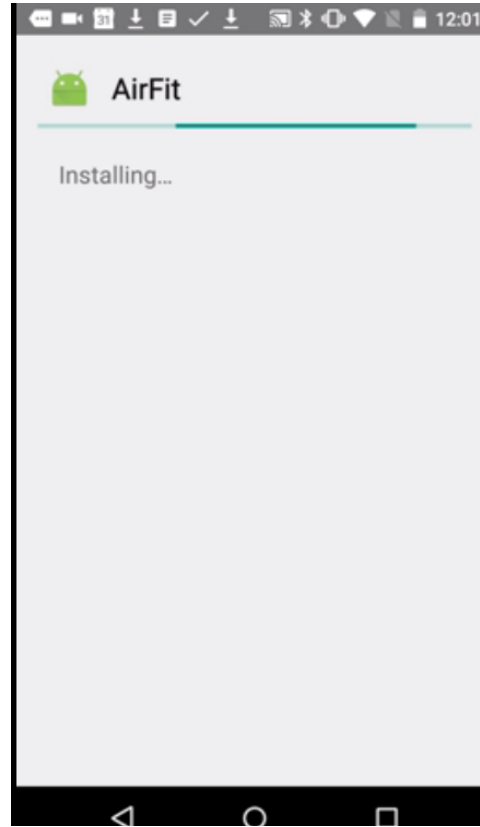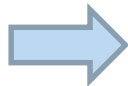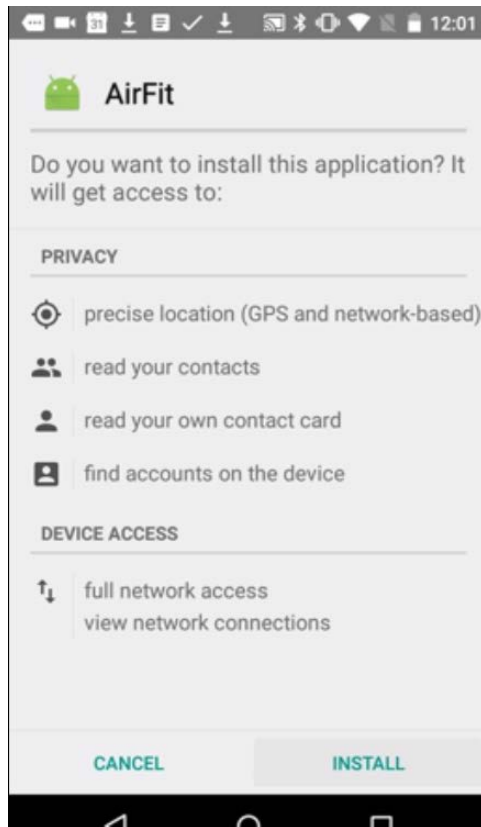
Sign in with Fitbit

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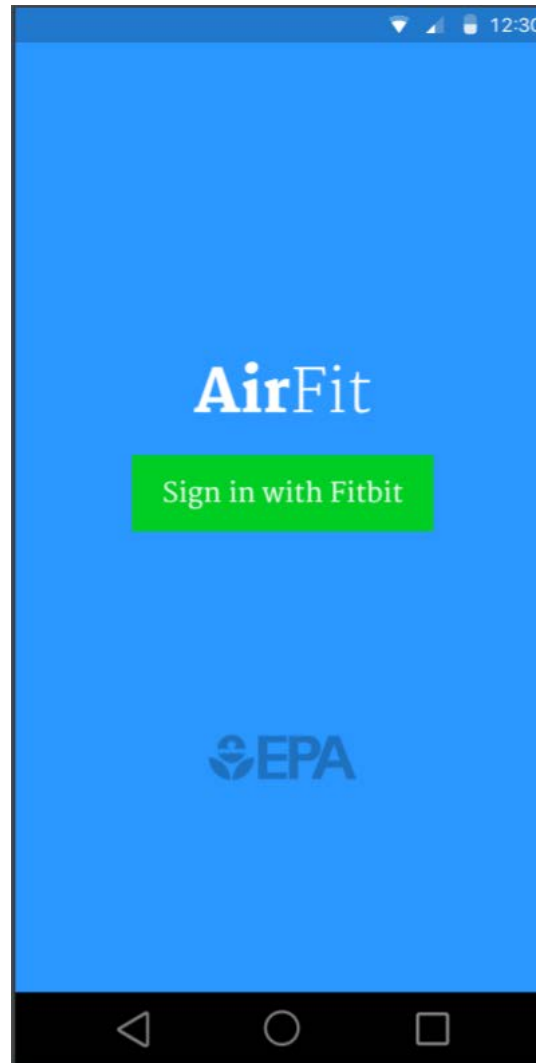
Select Your Location

AQI and Activity Level
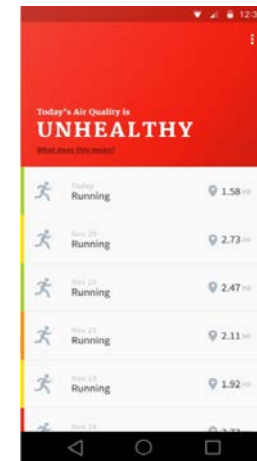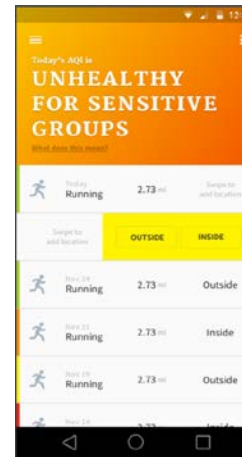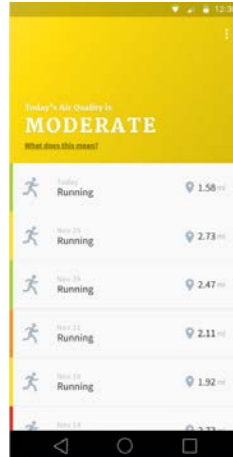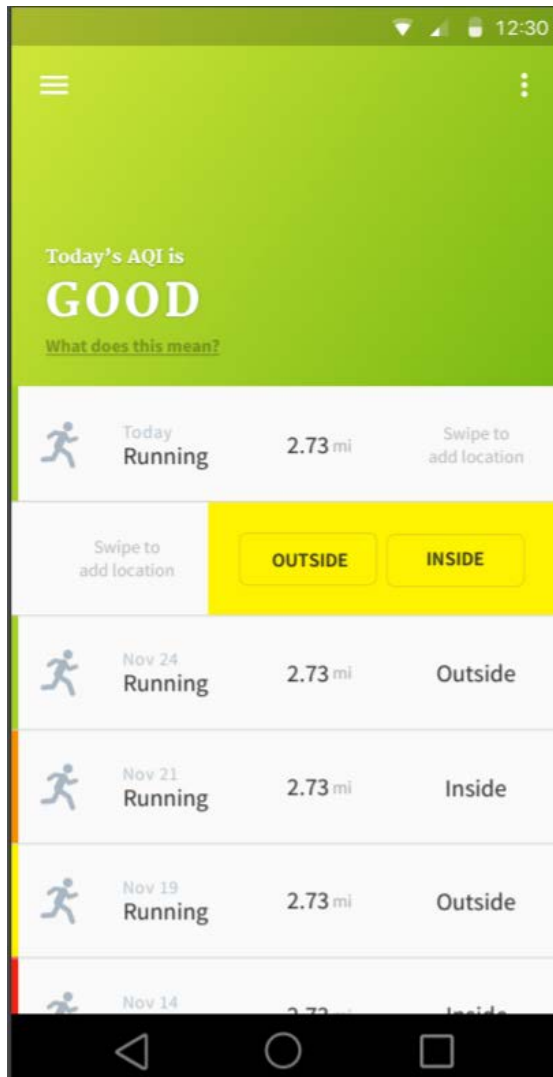
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AirFit Metrics
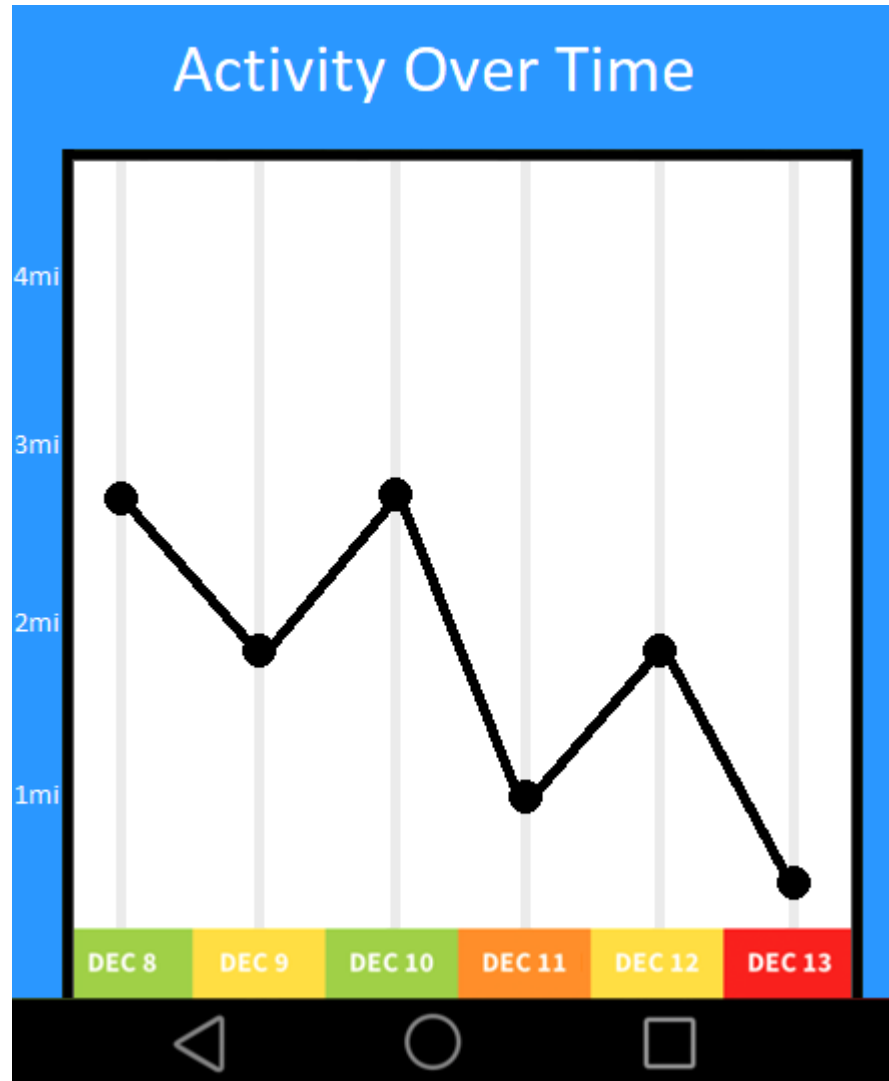
As the public, you can…

➤ Understand AQI ratings and what it means to them and their activity choices

➤ Receive information on recommended exercise environments or suggested periods of time for when to partake in physical activity

➤ Make more informed choices for your health

As the EPA, you can...

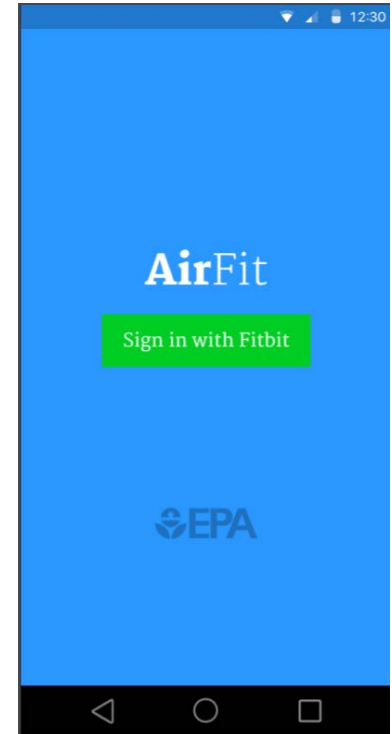- Access accumulated data from the public who are using wearable fitness tracker technology to review activity choices
- Determine if there is any connection between air quality and physical activity
- Identify areas where infrequent exercise coincides with poor air quality
- Recommend particular exercise environments based on a larger set of air quality data

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Future Capabilities

- Collect demographic data about the individual to personalize the recommendations and alerts
- Show alerts when there is good air quality so user knows when to exercise
- Make recommendations for daily activities based on air quality and personal settings (e.g. allergies)
- Provide additional data regarding the specific pollutants and how they impact your recommended activity level
- Integrate with other types of wearable technology devices

Thank You