



User Centric Pollution Alert System

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■ Server to store data

- A server instance set up to capture the pollution levels.
- The pollution levels at each area can be distributed to the users from here.

■ Motivation

AIR POLLUTION – THE SILENT KILLER

Every year, around **7 MILLION DEATHS** are due to exposure from both outdoor and household air pollution.

Air pollution is a major environmental risk to health. By reducing air pollution levels, countries can reduce:

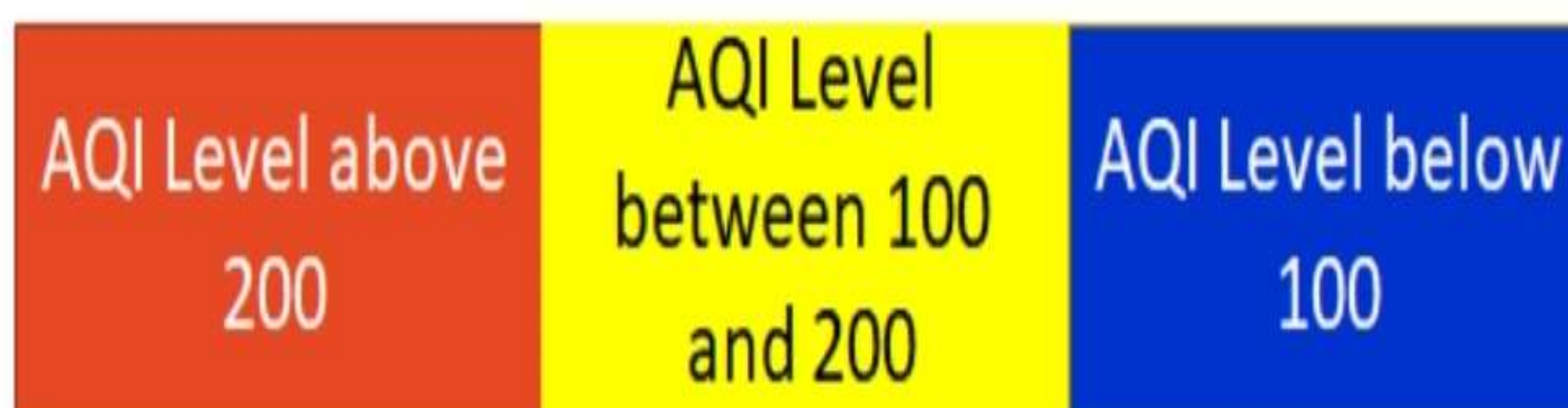
- Stroke
- Heart disease
- Lung cancer, and both chronic and acute respiratory diseases, including asthma

REGIONAL ESTIMATES ACCORDING TO WHO REGIONAL GROUPINGS:



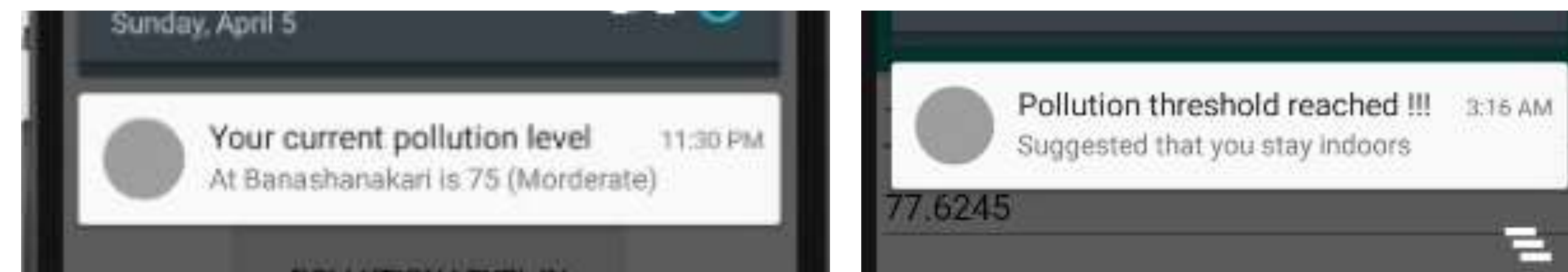
CLEAN AIR FOR HEALTH #AirPollution World Health Organization

- The recent pollution spikes in Delhi has crippled the daily lives of people.
- High levels of these pollutants can cause immediate and long term health problems
- Regularly measuring and monitoring the pollutant levels in the area, can keep track of the increasing pollutant levels, and raise awareness.



■ Features of the App

- The Application provides alerts to users about highly polluted areas.
- Warns with a notification when the user's threshold to pollution has reached.
- Suggest routes, which are have the least pollution as compared to the other routes.



- A few visualizations, to keep the user in check of the pollution intake daily and monthly

■ Monitoring System

- To measure the pollution in different areas, rather than using a static device, a mobile device which the user can carry, can be more accurate.
- Sensors integrated with a GSM module can be used as the hardware

■ Flow Diagram

