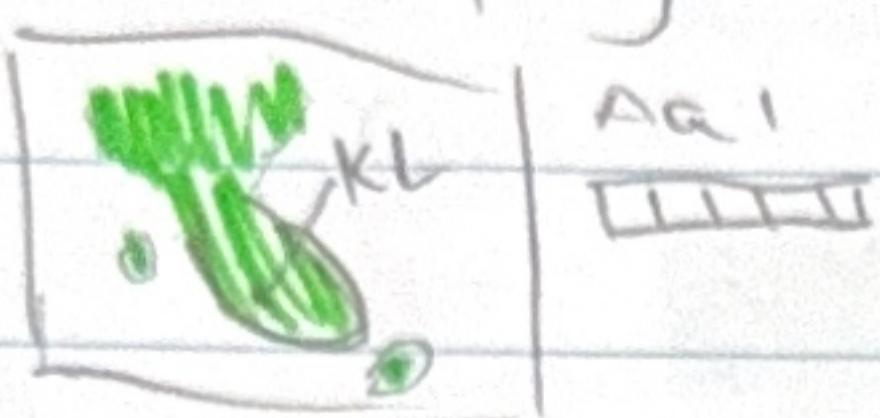
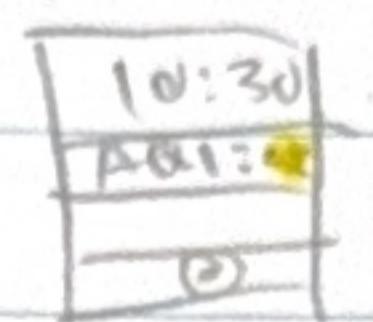


Ideas

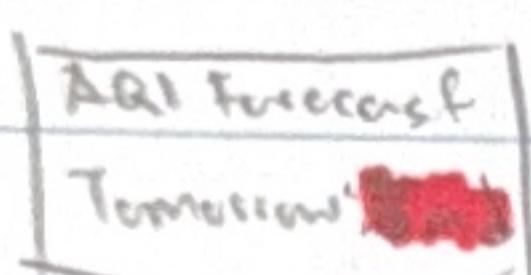
a. AQI Display



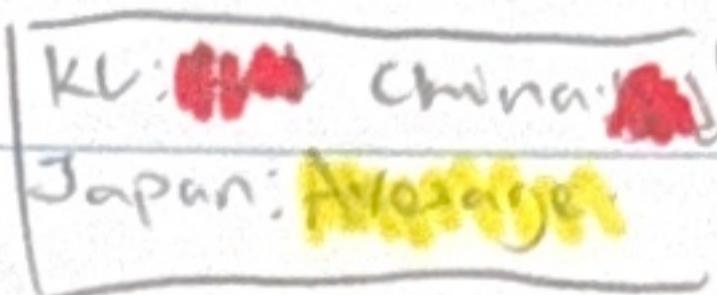
b. Health Notification



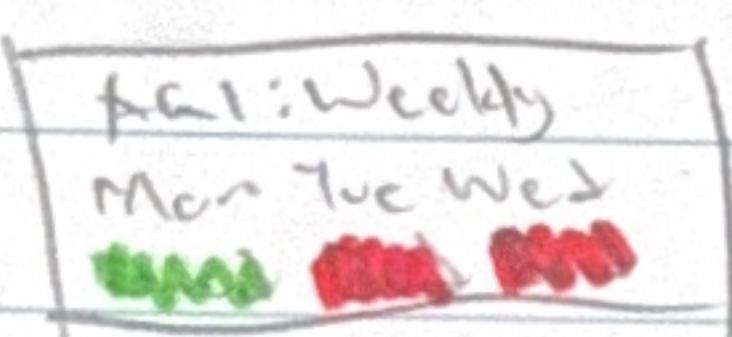
c. AQI Trends



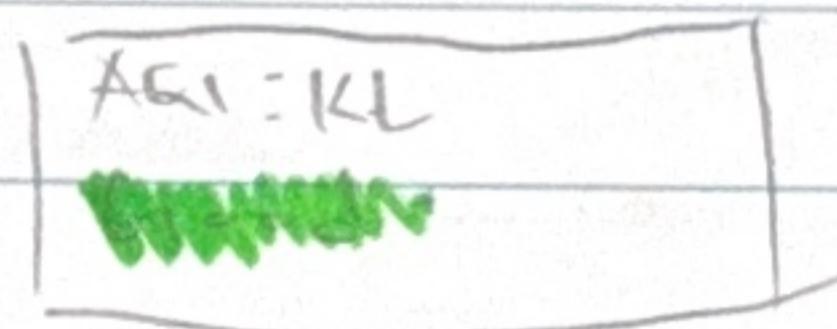
d. Comparison Tools



e. Historical Data



f. Real-Time AQI



Filter

b. Only a notification

J. Does not really give much insight

Categorize

→ Map Display.



Display real-time AQI

Combine & Refine

Real time AQI Display: at the top
 Historical Data Below in a graph
 Health tips based on real
 time AQI

Questions

1. Do they provide enough value to the user?

2. Easy to understand?

3. Can user interact effectively?

4. Do these features help make informed health decisions?

AQI map showing different regions - click on any region to get real-time AQI and health and AQI forecast

Health tips of pollutant breakdown based on user preferences

Sheet 2

Layout

Real-time AQI Display)

0805

AQI: 

Kuala Lumpur

Health Alert & Notification

Good air quality 

Send alert when AQI > 150

Data Trends

0000

2359



Last 24 hours

Weekly

Operations

- View AQI for current location
- Set alerts
- Explore historical data

Discussion:

- Simple design & clear
- Practical & user-friendly
- Lacks depth for data
- No regional comparison
- Limited interaction

Focus

To present real-time air quality
in a simple, digestible format

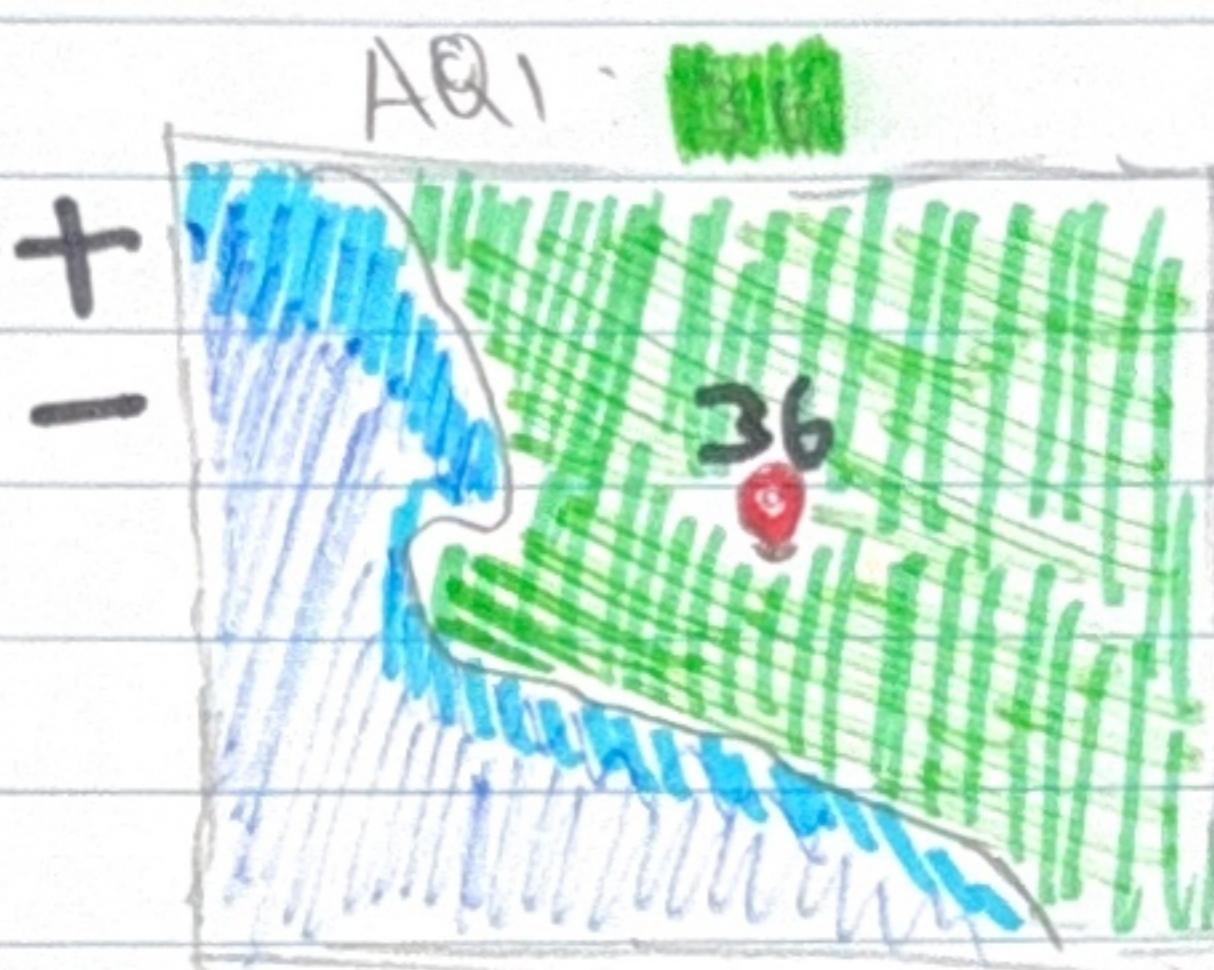
Users get an sense of air quality
because of color-coded display

Sheet 3

Layout

Q Enter a location (city, zip code)

Kuala Lumpur



Pollutants : PM 2.5, PM10

Health : Safe to go out

— Good — Moderate — Bad

Alert when AQI > 150 Filters

Operations

- View AQI levels on a map
- Search for specific location
- Set alert
- Toggle pollutants (filter)

Discussion

- Compare AQI level in diff locations
- Map can zoom
- Info on pollutants
- Map approach may be too complicated
- Focus on spatial data over temporal data

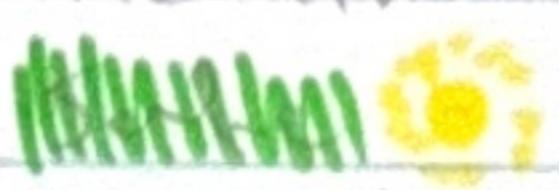
Focus

Provides a broad comparative view across selectable cities. Useful to monitor AQI in different cities

Sheet 4

Layout

Add locations.		
• Kuala Lumpur	:	██████
Ipoh	:	███
Penang	:	███

Health: 

"Set Alert"

Pollutants \rightarrow PM_{2.5} ↑ PM₁₀ ↑
 CO₂ ↓ O₃ ↓

Trends: KL



Focus

Provides a personalised and in-depth view of AQI
 for multiple locations at once.

Design is ideal for users that want to see AQI in multiple locations at once

Operations

- Add multiple locations (can be used for work/home)
- View pollutant breakdown by clicking on the specific pollutant

Discussion

- Track multiple locations at once.
- In-depth info of pollutants
- Complex, users may feel cramped.
- Users may spend a lot of time setting locations

Sheet 5

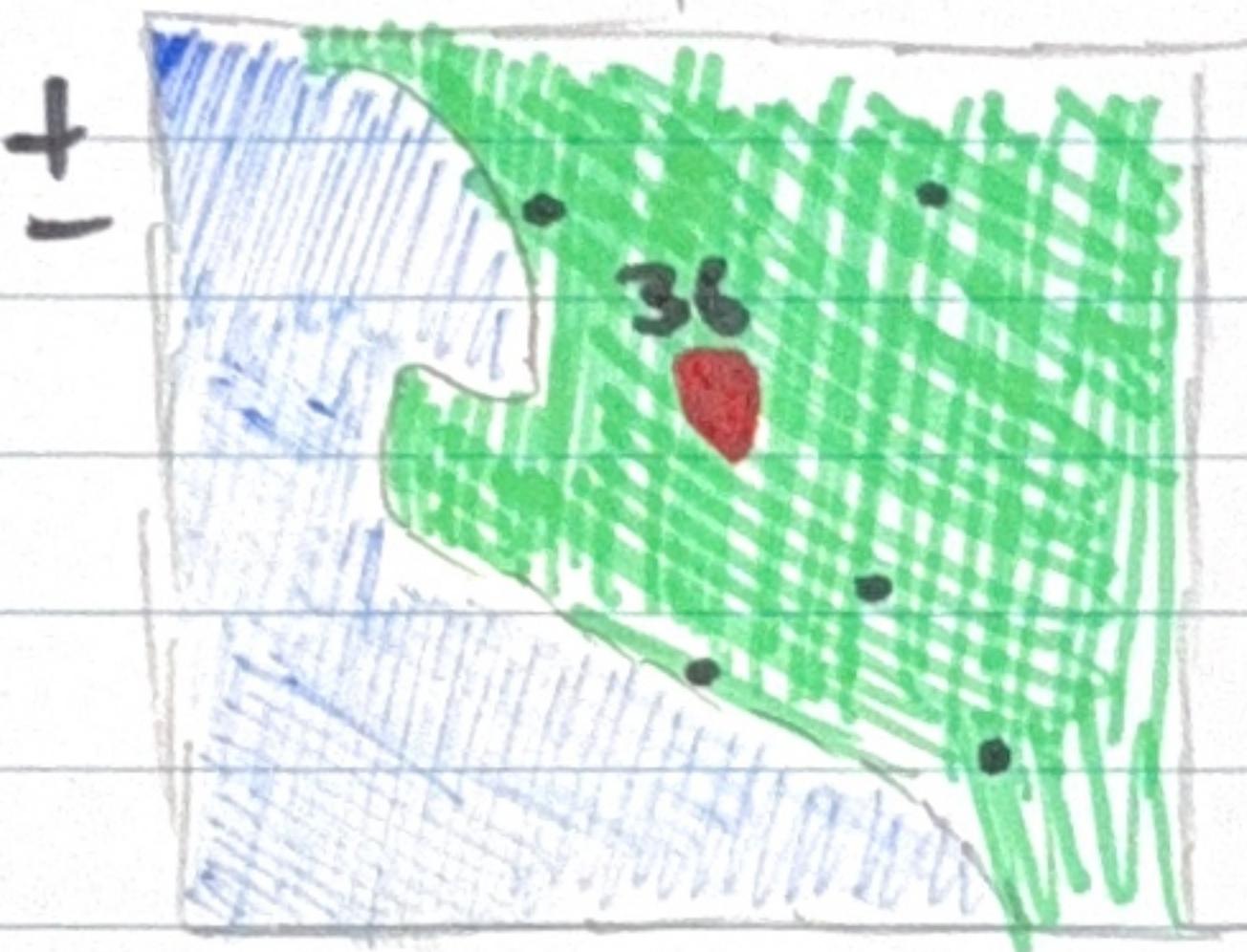
Layout

Kuala Lumpur >

AQI: 

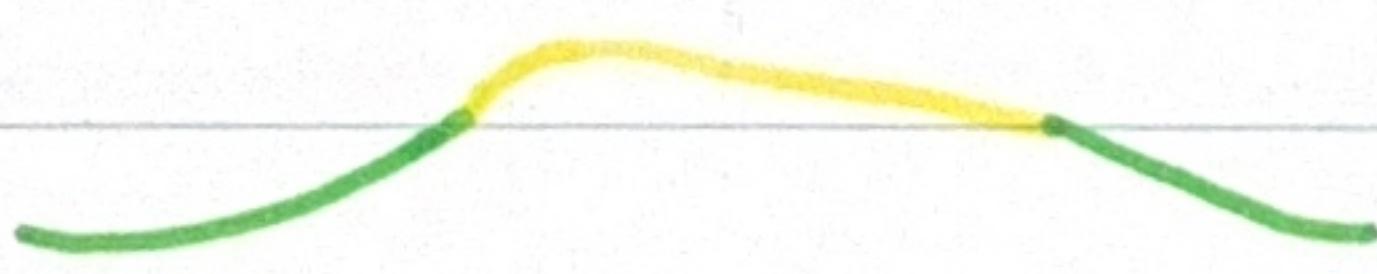
Health: Safe to go out 

Map



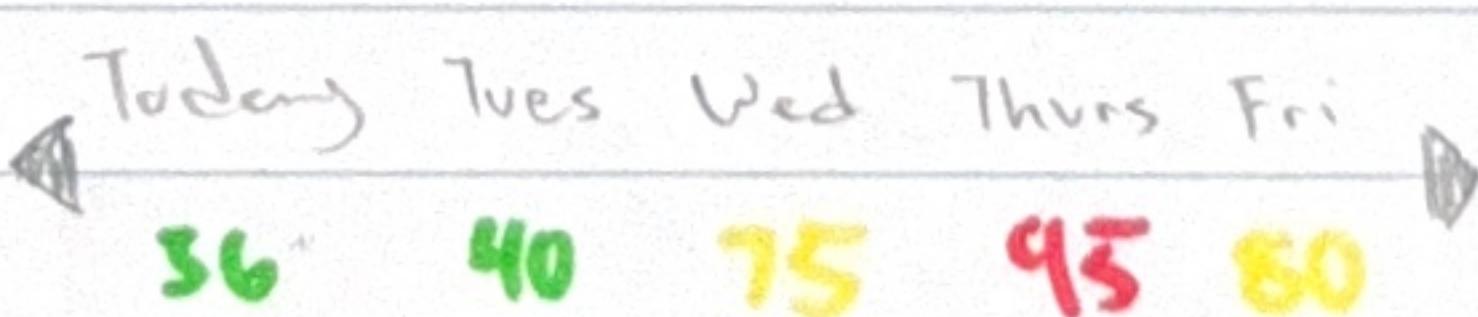
Trends

0000 2359



Pollutants: PM2.5, PM10

Forecast



Focus

Simplicity for casual users, real-time AQI, easy to understand colour-coding; Detailed info for advanced users
Map interactivity.

Operations

- Real-time AQI for multiple locations: Users can click on the > next to the current city selected to change to another city.
- Users can click on the black dot on the map to change locations.
- Check pollutant breakdown
- Explore trends & forecasts
- Zoom in the map

Discussion

- Versatile. Colors to casual & advanced users
- Dynamic map
- Comprehensive: real-time data, trends, forecasts
- Performance may be slow due to large data needed

7
11/10
13/15
16 21/24