



# PRESKO

Vincent Aguirre | Iggy Cadelina | Kyla Dequito  
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# "PARANG TUMUTUMBA KA NA LANG"

(It feels like you're just going to collapse.)



20%  
Urban Households



48,200  
Outdoor Workers

**"Stopping isn't an option—it's a luxury they can't afford."**

(They must work through danger-level heat to earn their daily income.)

A black and white photograph of a young man with dark hair, wearing a white t-shirt, looking upwards and to the right. He is standing on a paved area with a metal railing. In the background, there is a building with a white facade and a large umbrella. The sky is bright and overexposed.

# "NAGHAHANAP NG MAS MALILIM"

(Looking for somewhere more shady.)



**Trial & Error**  
(Navigating blind  
in  $>42^{\circ}\text{C}$  heat)



**63,900**  
Students

**"Youth does not mean immunity."**

(Without data, our most vulnerable are navigating blind.)

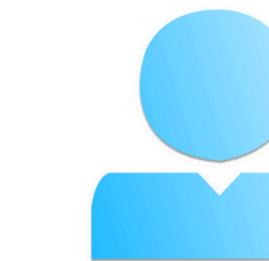
# THOUSANDS EXPOSED TO DAYTIME HEAT

≈ 112,100 people in Lucena (≈ 40% of the city) are students or outdoor workers exposed to daytime heat.



## 63,900 Students

are exposed to dangerous heat during school hours.



## 48,200 Outdoor workers

(vendors, construction, riders) face prolonged sun exposure daily.

Estimates scaled from PSA / DepEd data (2020–2024)

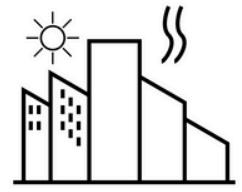
**Global warming** is accelerating, with temperatures projected to rise over 1.5°C by 2025–2029, already causing record **43 - 45°C heat** in the **Philippines**.



# ESCALATING HEAT CRISIS

THE URGENT NEED FOR A SOLUTION

## URBAN AMPLIFIERS



Heat islands, lack of green spaces

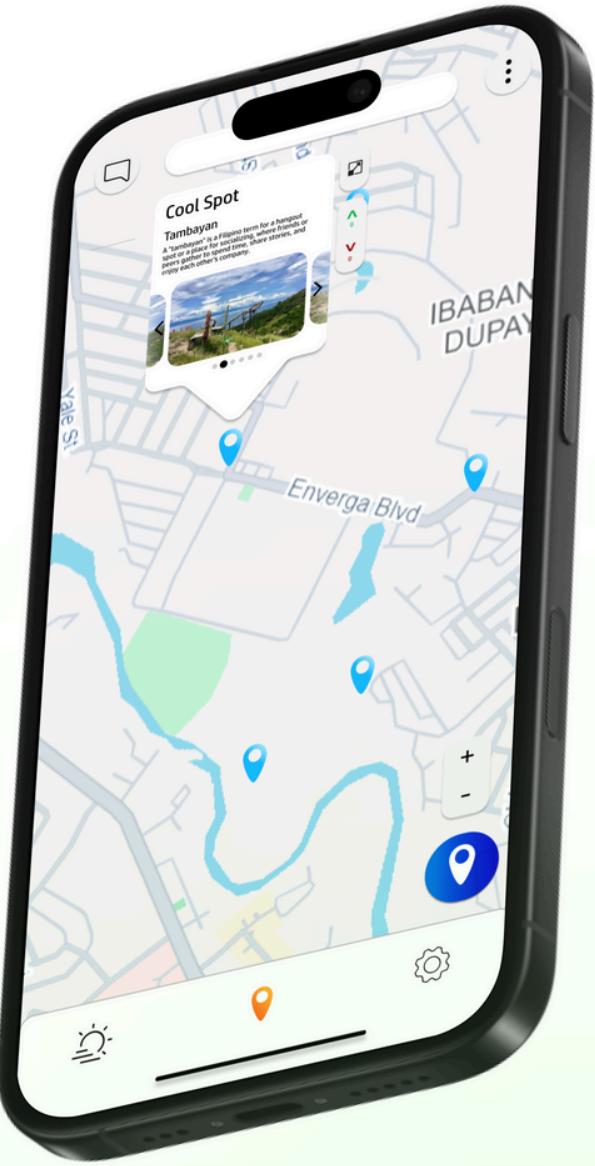
## PUBLIC HEALTH CRISIS



Extreme illness & deaths, strains health resources.



# PRESKO



## Hyperlocal Alerts

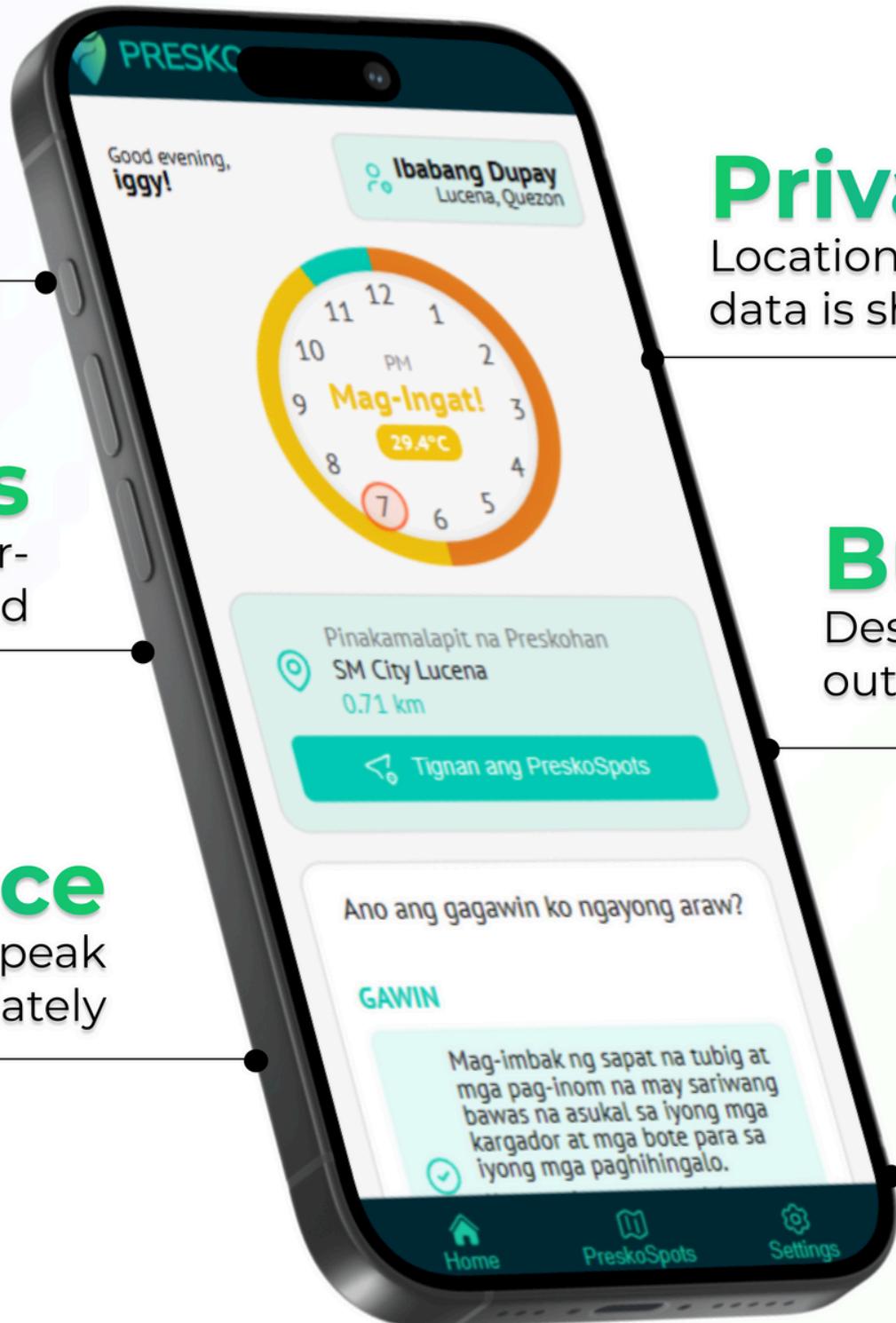
Barangay-level, real-time heat warnings so users get guidance for the place they're actually in

## Presko Spots

Crowd-verified map of nearby shaded or air-conditioned places you can find and add

## Actionable Advice

Bite-size safety tips (drink water, rest, avoid peak hours) you can use immediately



## Privacy First

Location is used only for local alerts; no personal data is shared without consent

## Built for Daily Exposure

Designed for students, vendors, riders and outdoor workers who face heat every day

## Lightweight

Progressive Web App that runs well on low-end phones and minimizes data use

# DATA SOURCES



Real-time weather APIs (Open-Meteo) & Community reports (local)

# SUSTAINABLE DEVELOPMENT GOALS

**3** GOOD HEALTH  
AND WELL-BEING



**11** SUSTAINABLE CITIES  
AND COMMUNITIES

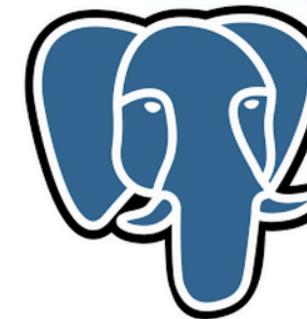
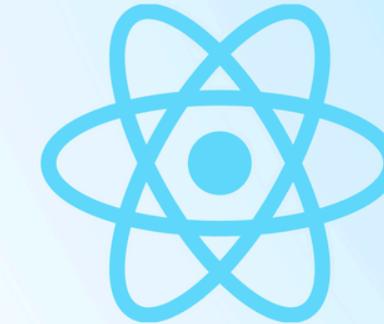
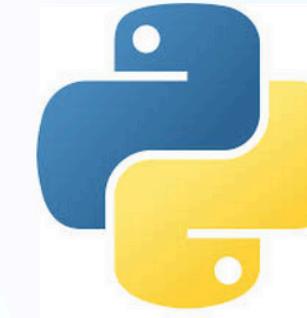
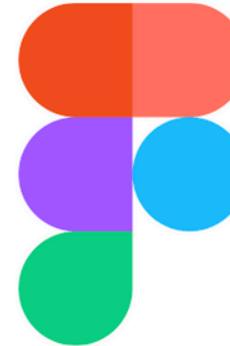


**13** CLIMATE  
ACTION



# TECH STACK

PRESKO uses **Figma** for design mockups and is built with **React** for the frontend, **Python** and **FastAPI** for the backend, **PostgreSQL** for the database, and integrates **Open-Meteo** and **OpenStreetMap APIs** for weather and map data.





# MEET THE TEAM

## KLIMATECH

**LEAD DEVELOPER  
& FRONT END**



Marc Neil Tagle

**BACK END  
ENGINEER**



Rod Mark Villa

**UI / UX DESIGNER**



Paul Vincent Aguirre

**DATA  
RESEARCHER**



Iggy Michael Cadelina

**DATA  
RESEARCHER**



Kyla Dessirei Dequito

# PRESKO DEMO

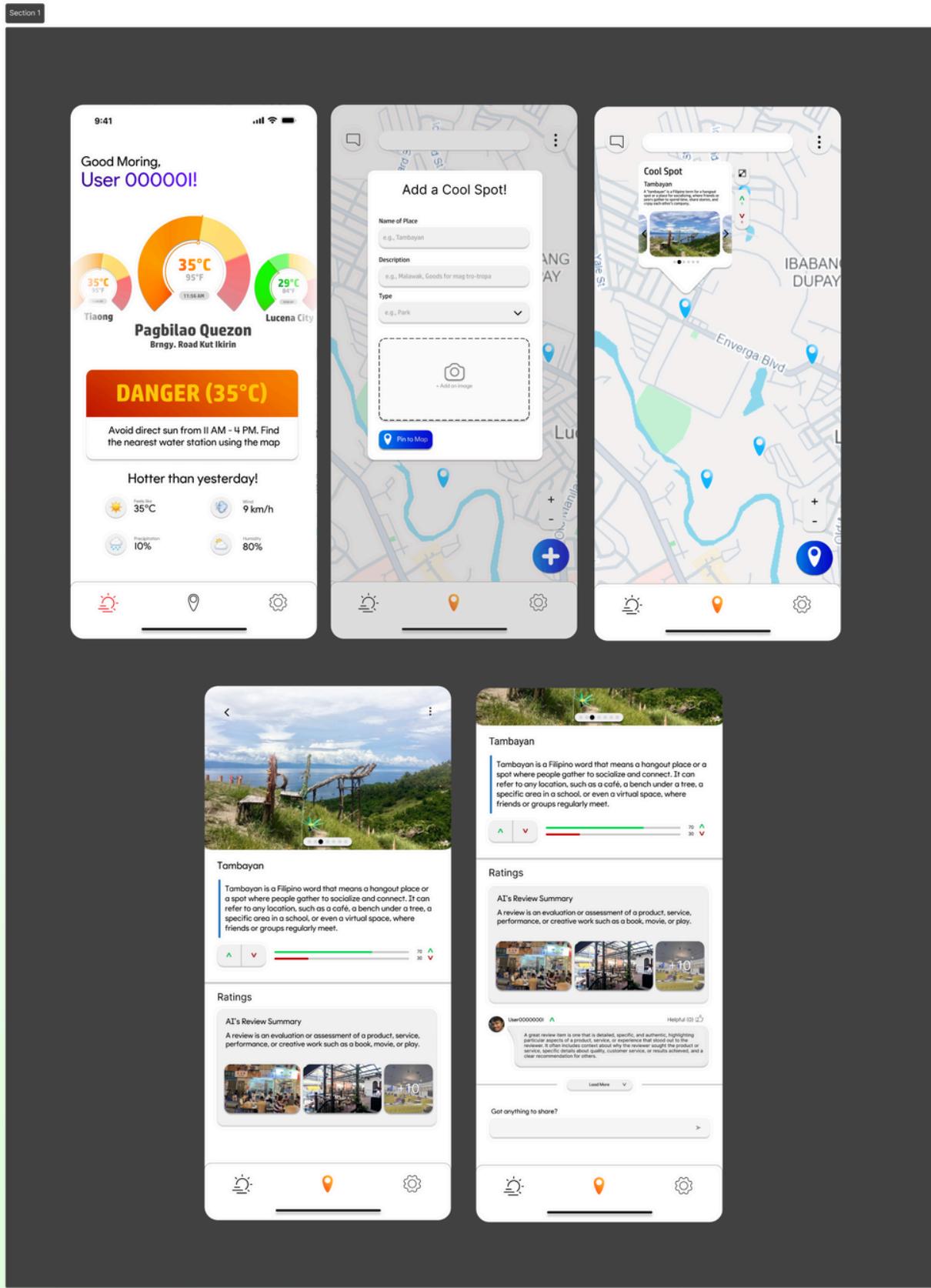


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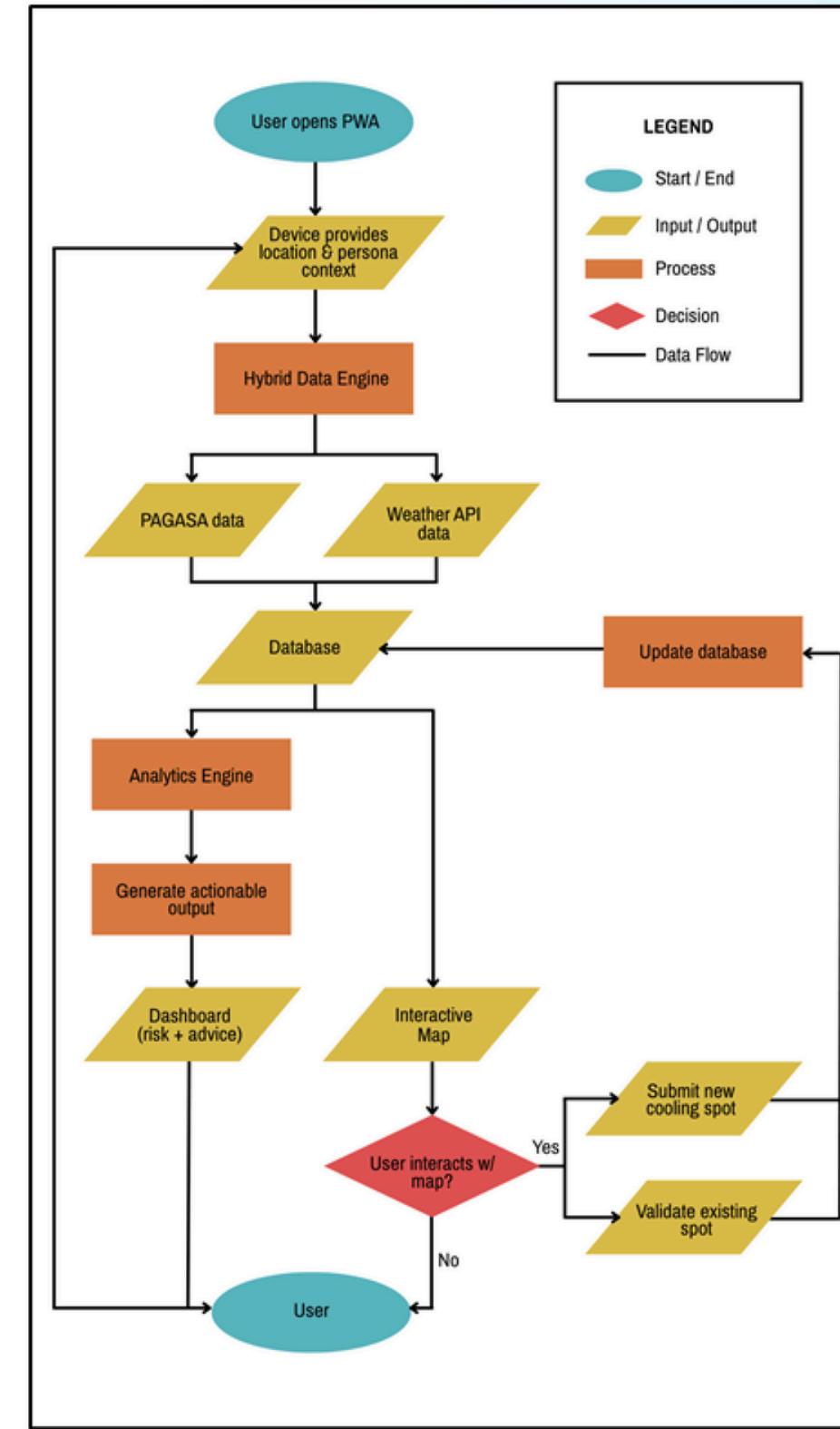
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## APPENDICES

### FIGMA MOCKUP DESIGN



### WORKFLOW DIAGRAM





# PRESKO

Beat the heat · Stay presko

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