

"Hey Google, show me the direction to Jalan Kuchai Lama."



Hi, how can I help?

"Calling Uncle Lim"

TALK TO TASK

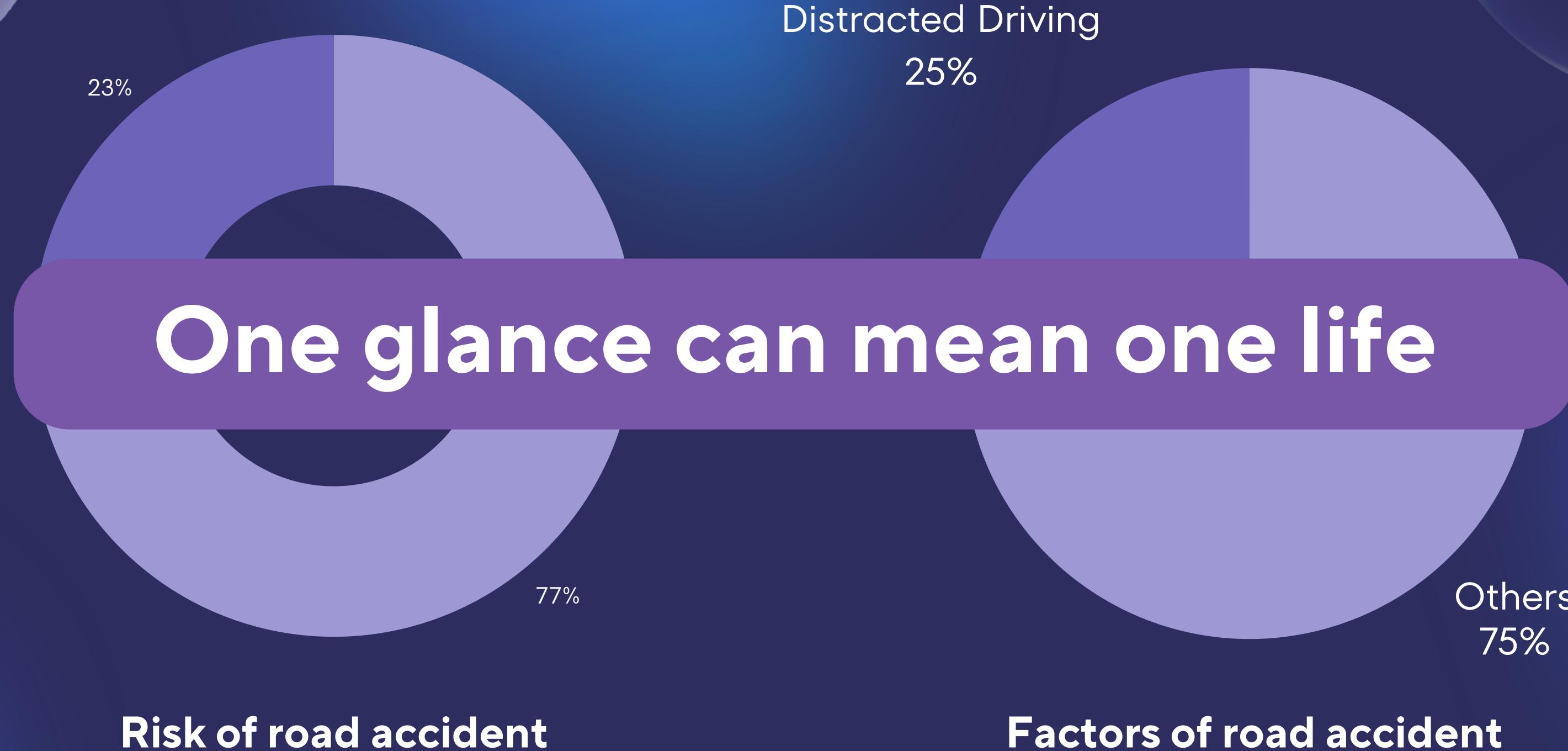


Talk To Task

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why this Matters?



DAX AI Assistant

Problem

Gaps in current AI Assistants

01

Text Input & Screen Reading



02

Poor understanding of local speech

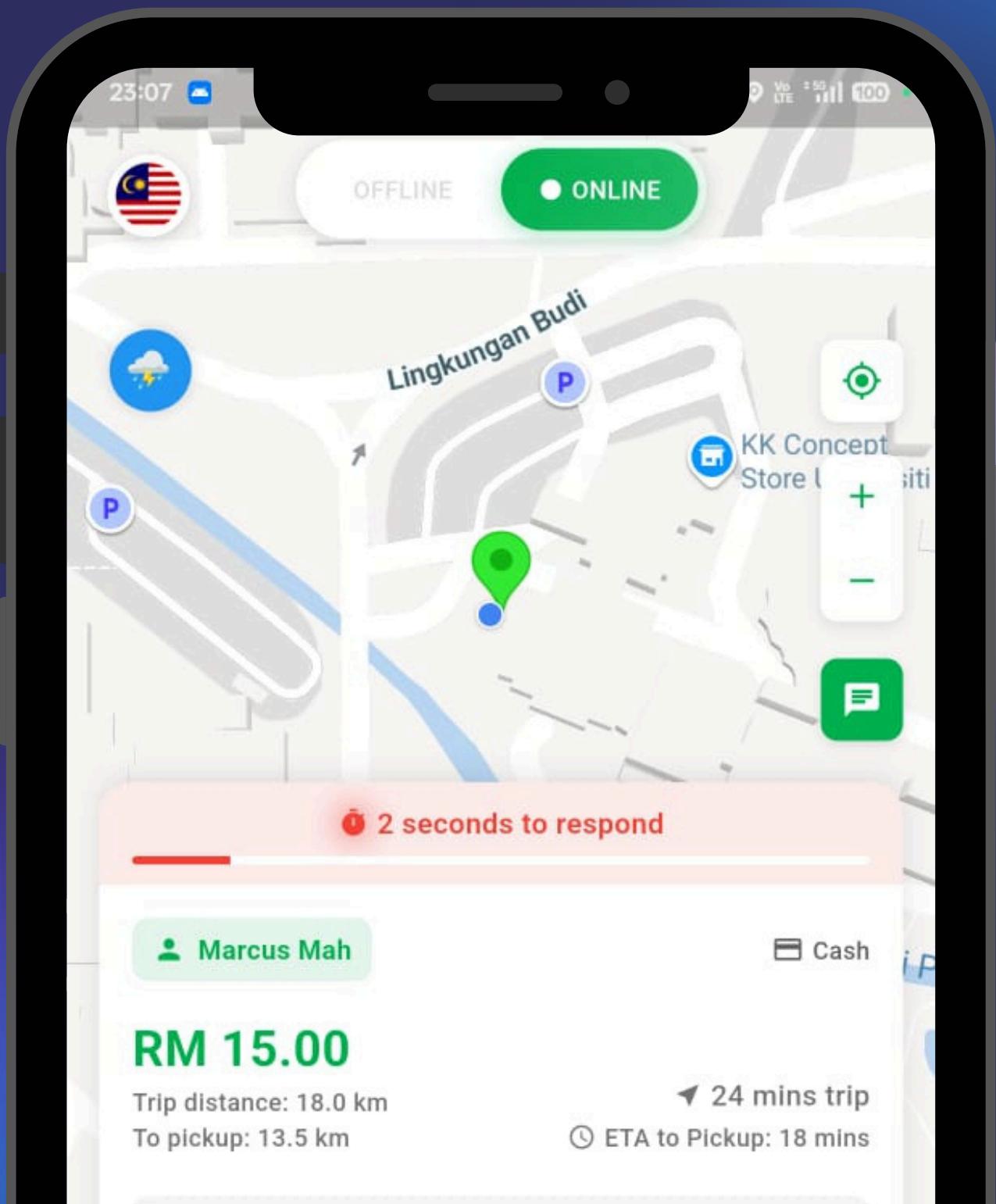


03

Harsh Environments



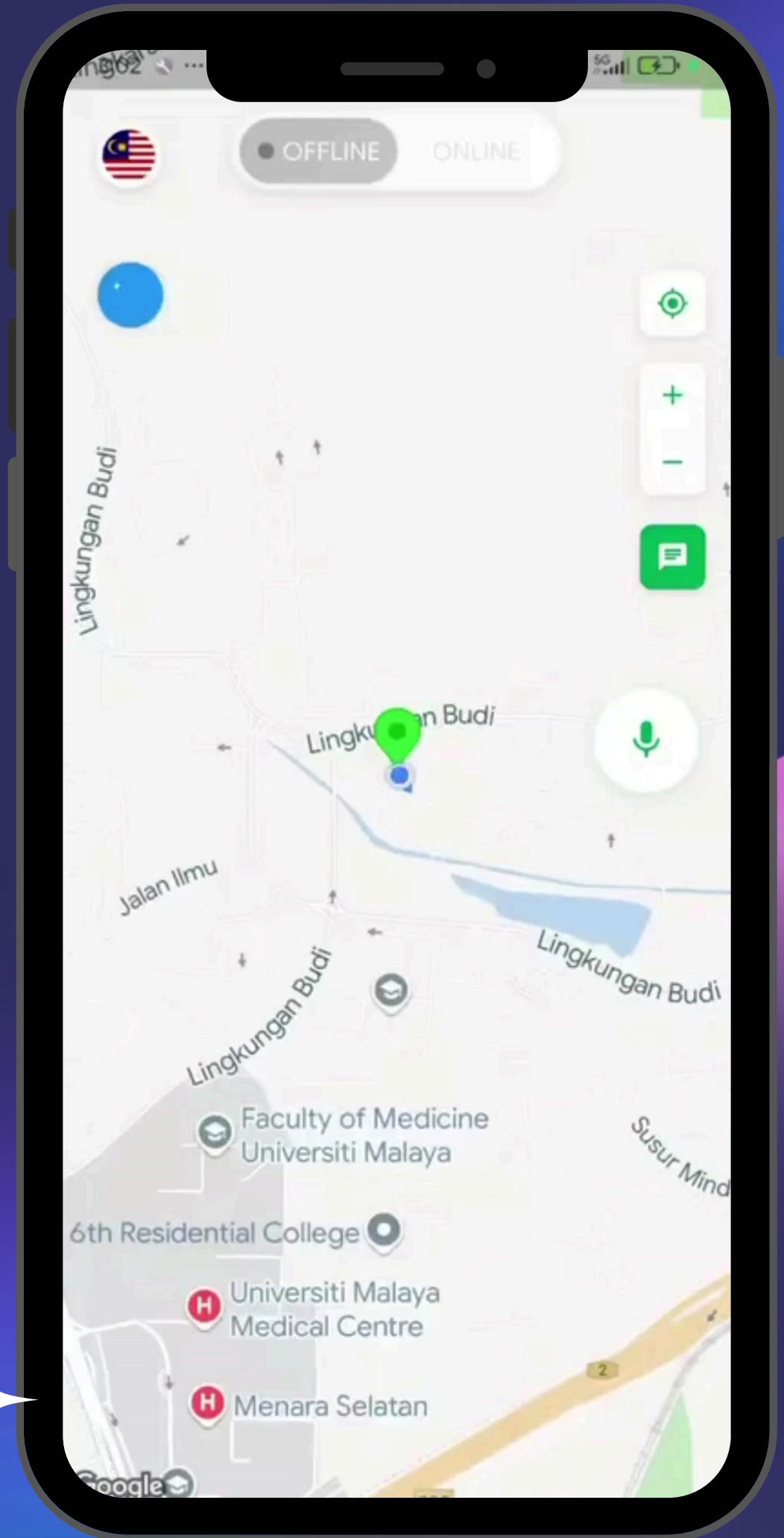
Our Solution



Listens in chaos

Understands how we speak

Replies out loud



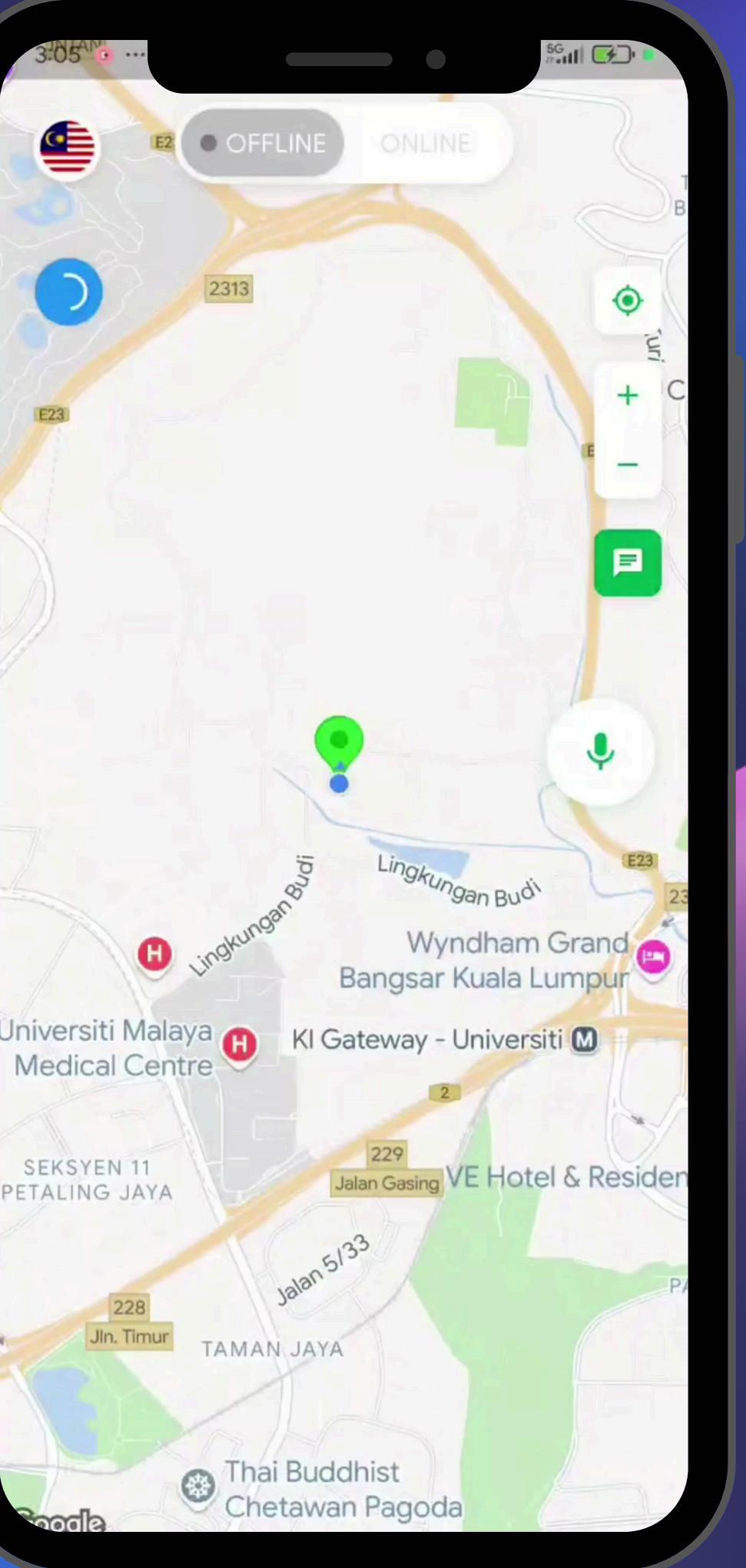
CHALLENGE 1: Harsh Environments

01 Heavy Traffic conditions (80-90db)

02 Rain and wind conditions

03 Urban environment sounds

04 Engine noise at various RPMs



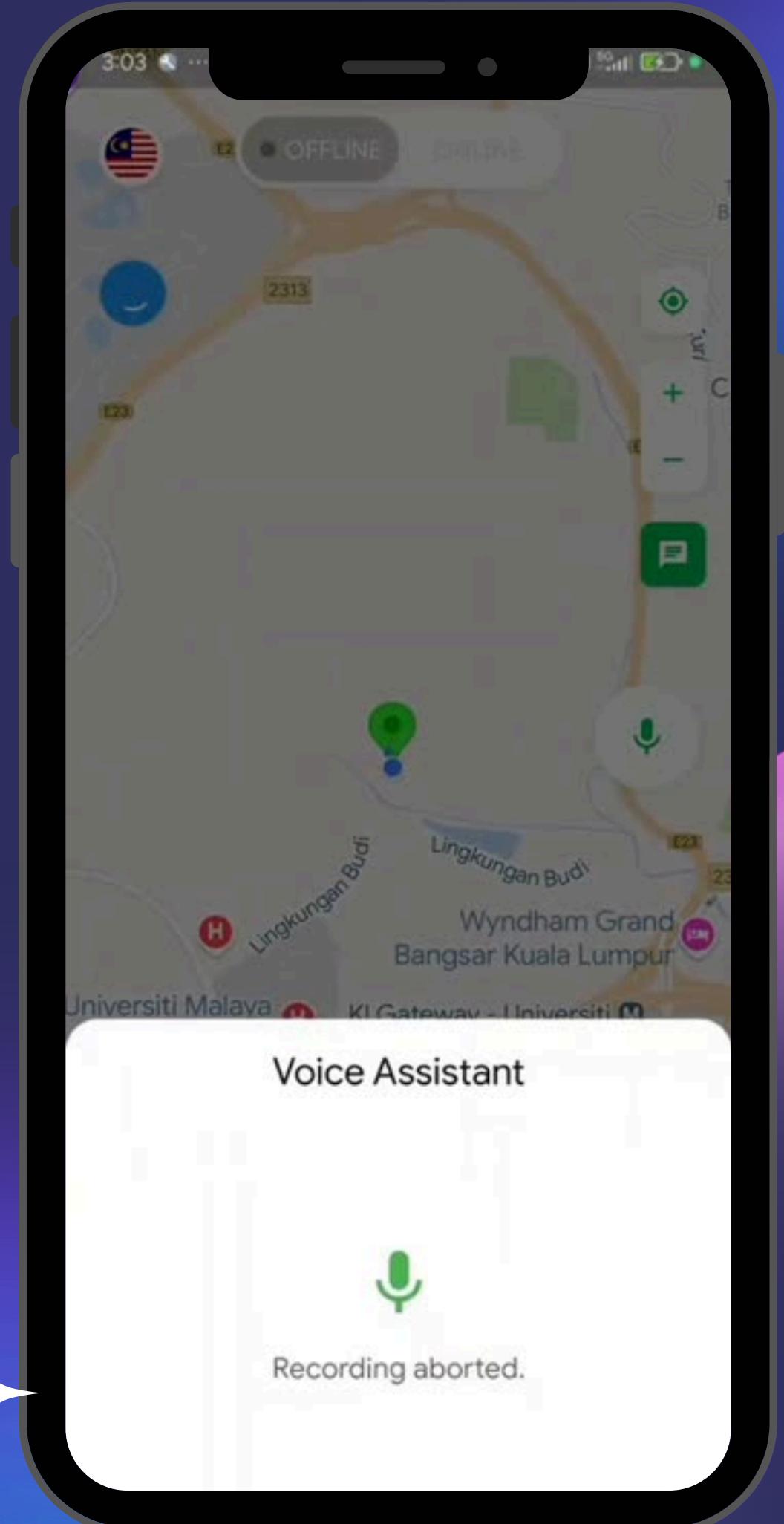
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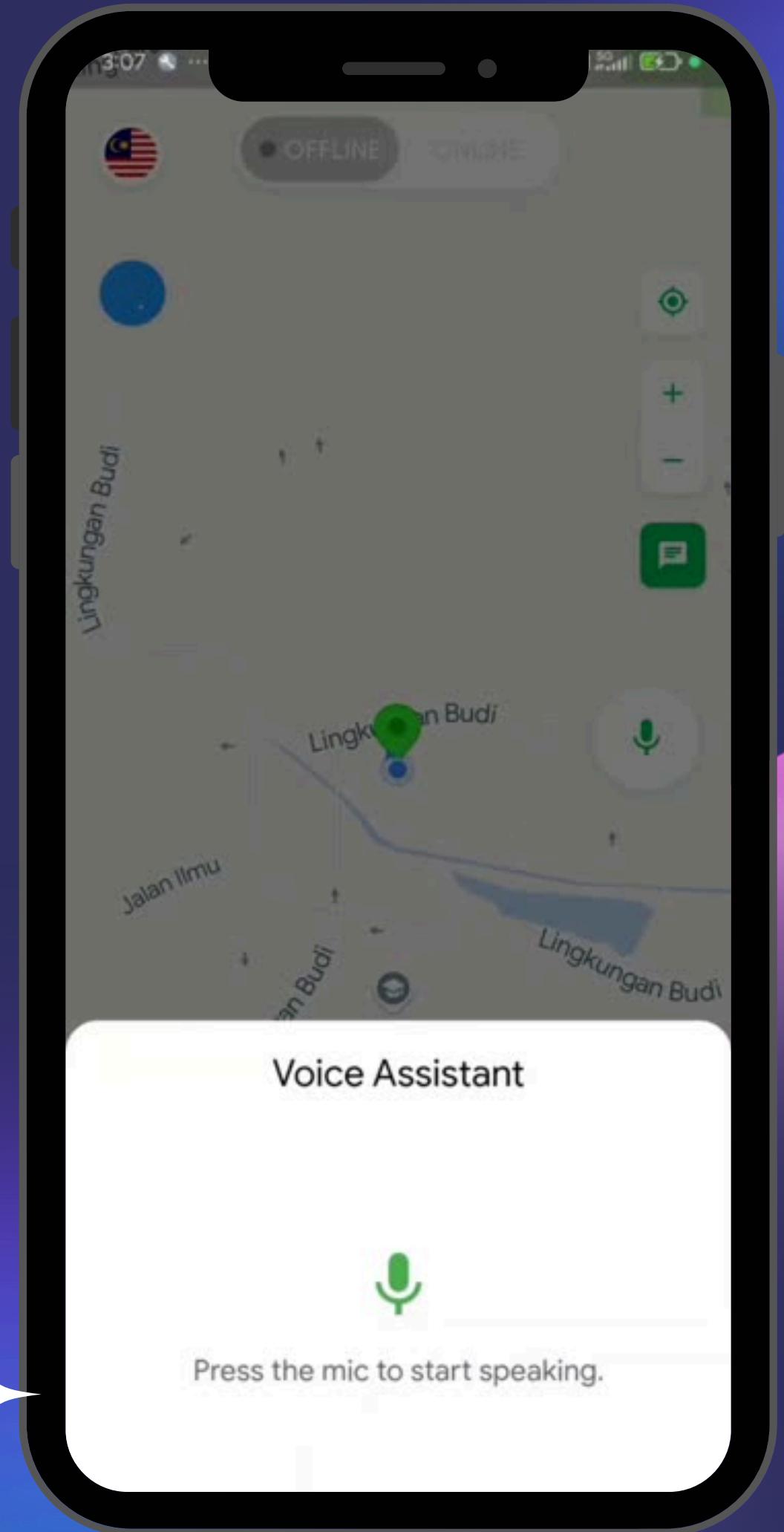
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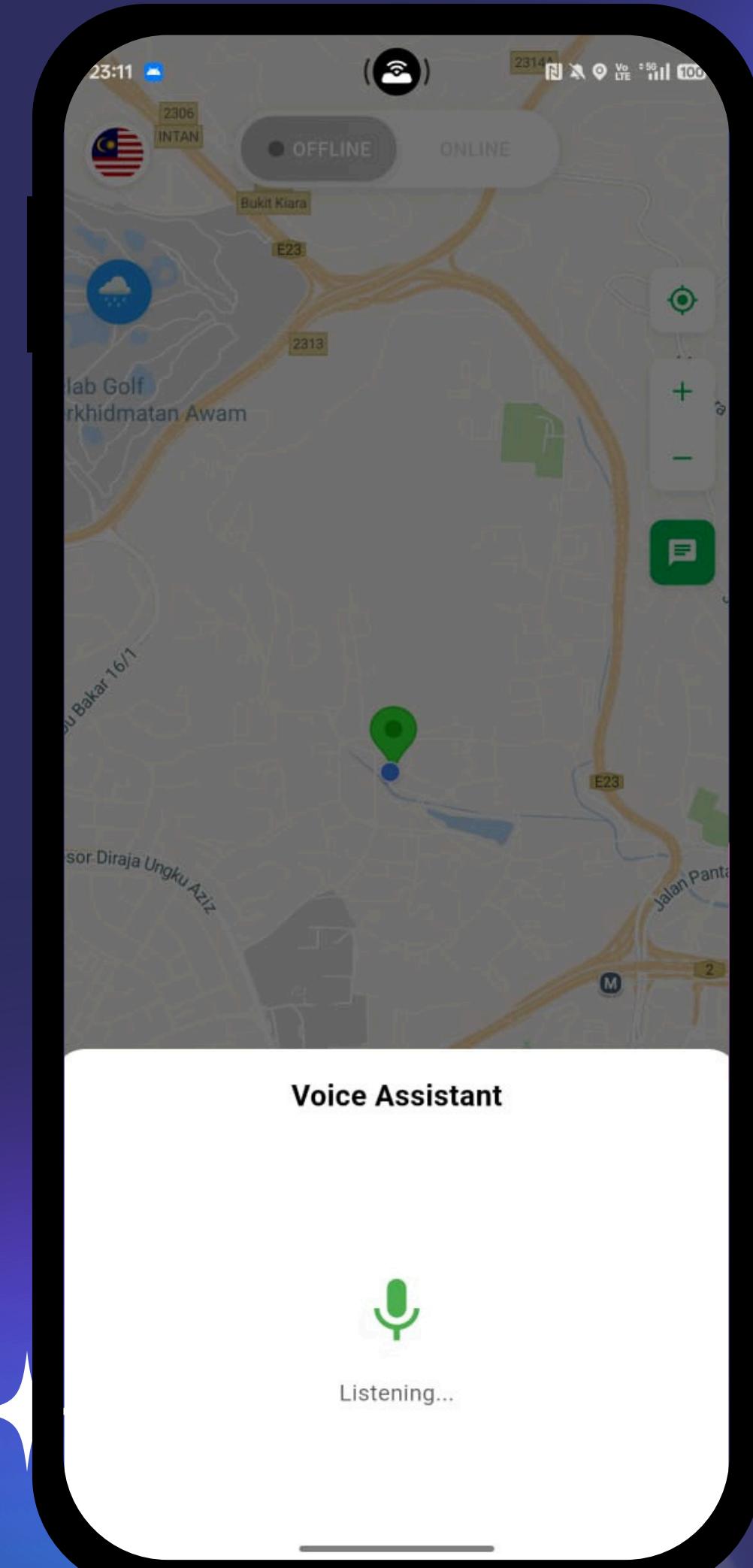
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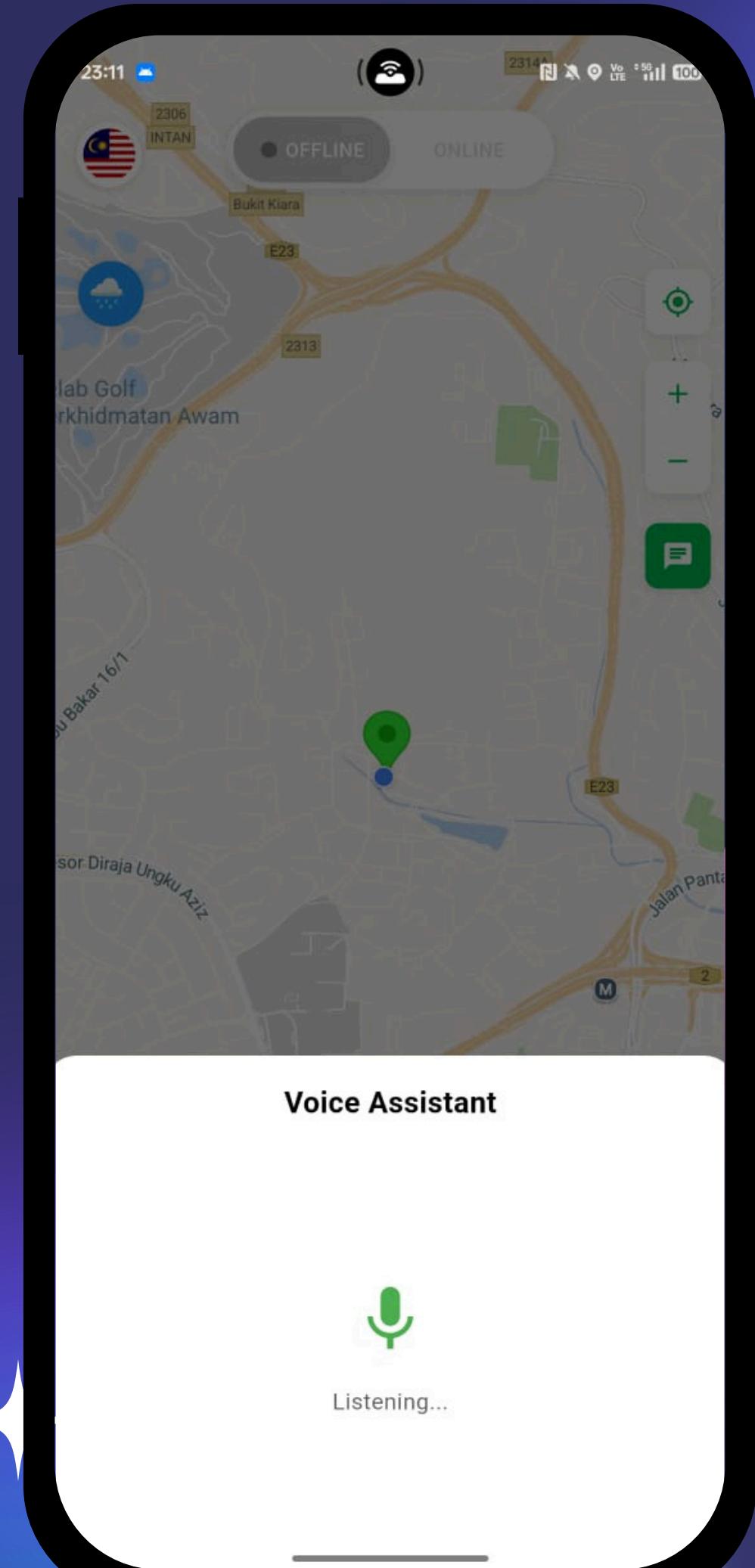
CHALLENGE 1: Harsh Environments

69%

Loudness
Reduction
Effectiveness

99%

STOI Score



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CHALLENGE 2:

Dialect and accent recognition

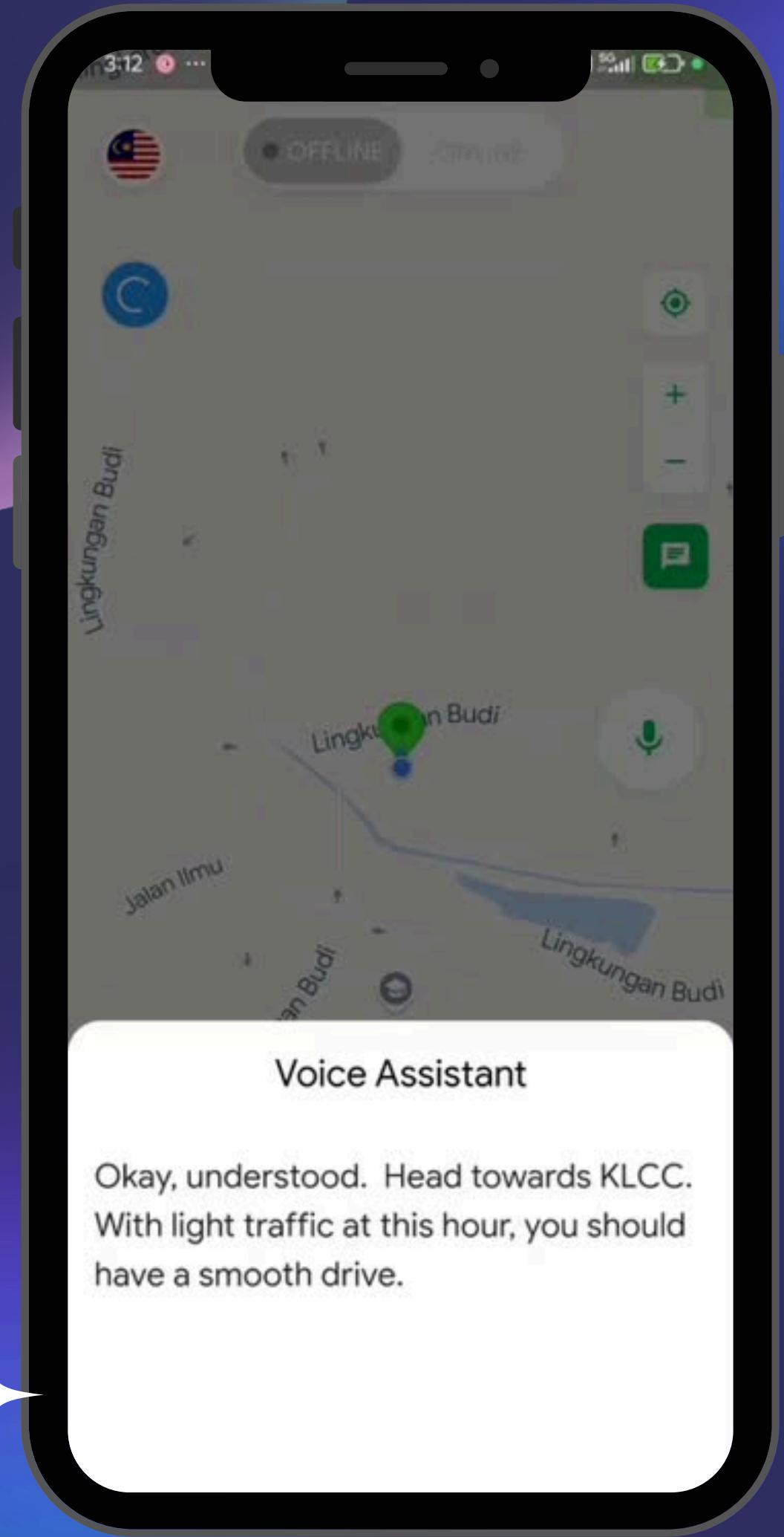
我哋去食啦

Let's go eat lah

Jom gi makan

சாப்பிட
போகலாம்





CHALLENGE 2:

Dialect and accent recognition

“我要去KLCC。”

Translation : “I want to go KLCC.”

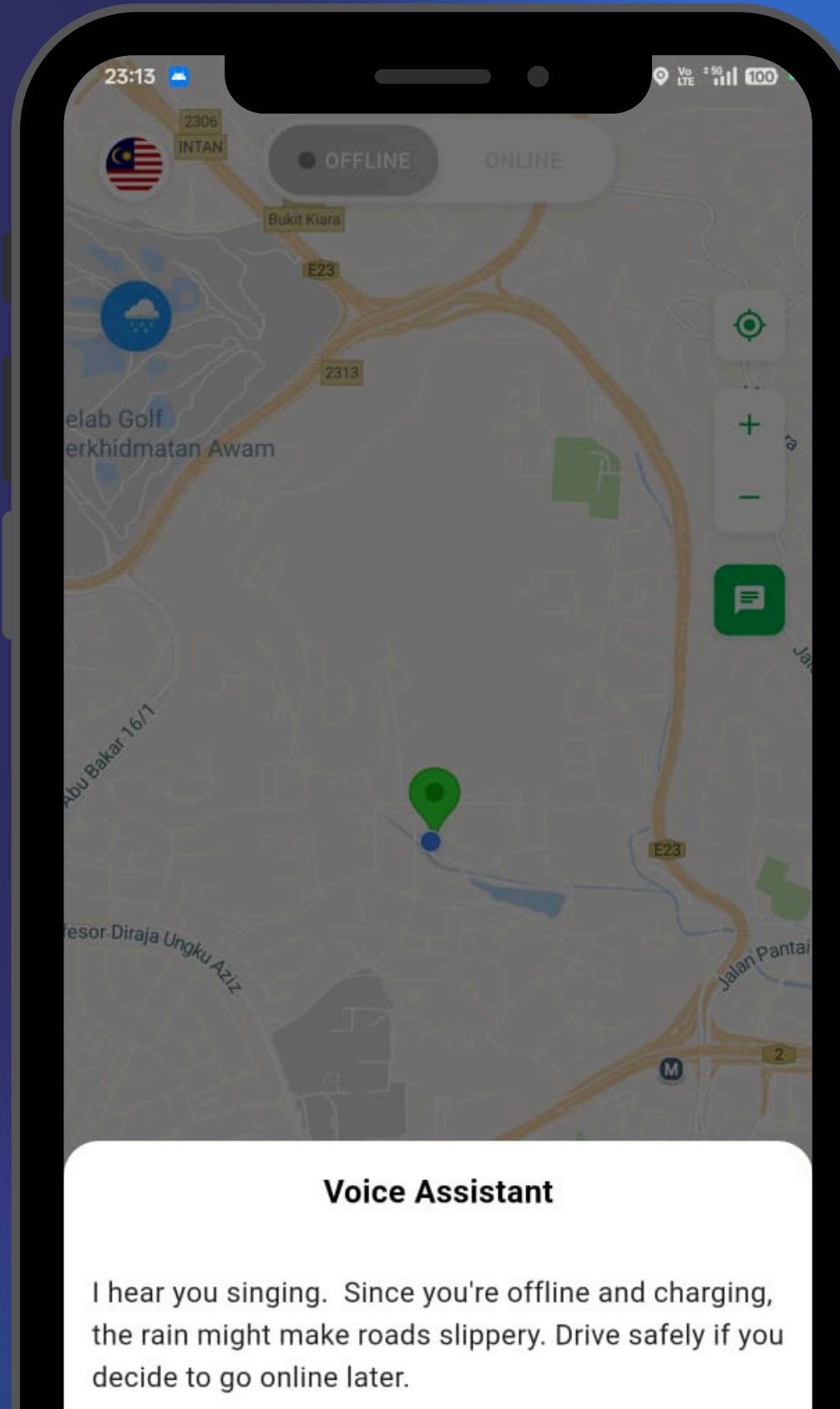
Cantonese → English



CHALLENGE 2:

Dialect and accent recognition

Our App



Can understand

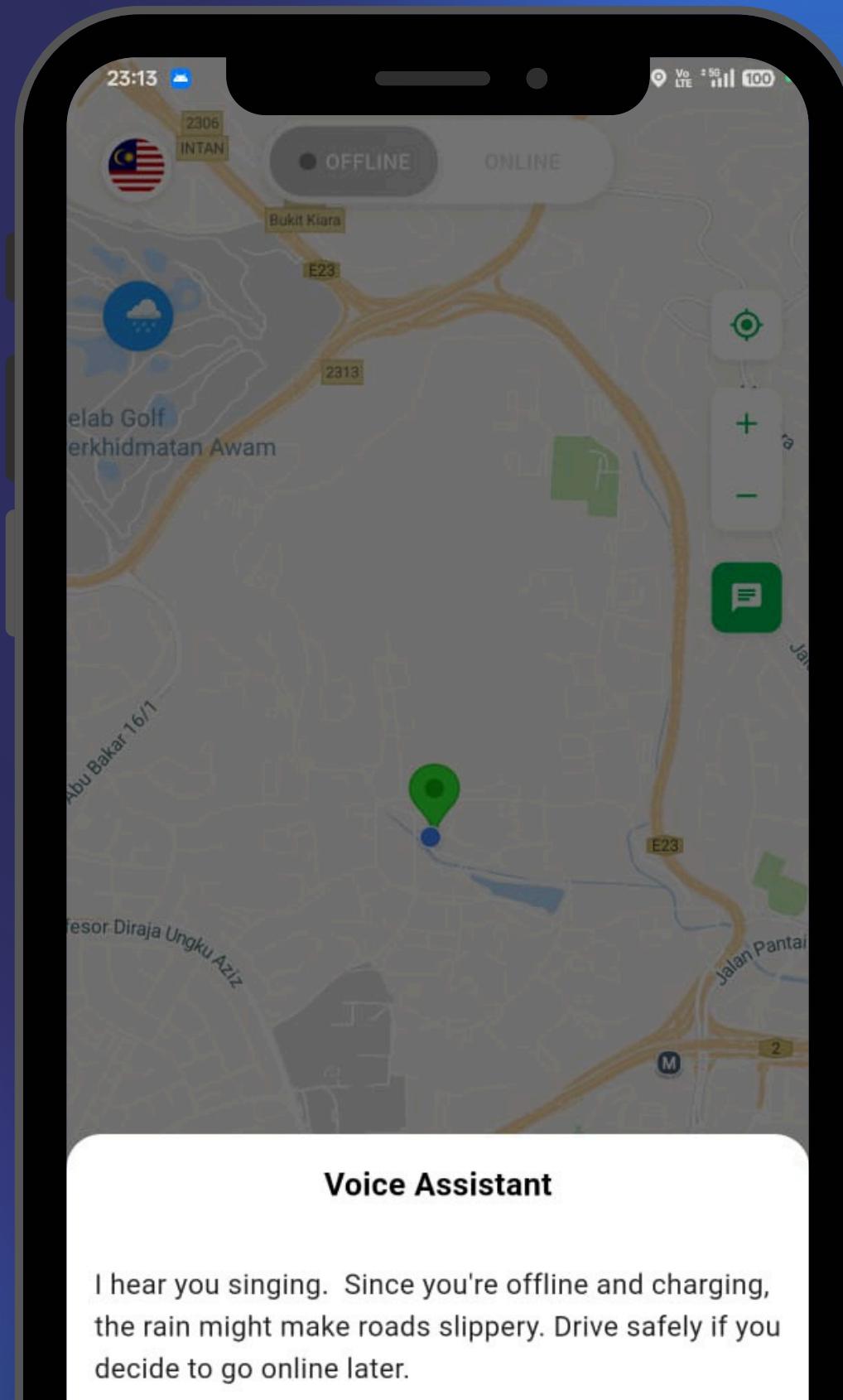
Dialects: Cantonese & Hokkian

Mixed language sentences &
Regional accents

CHALLENGE 2:

Dialect and accent recognition

Ono
App



Can understand

Dialects: Cantonese & Hokkian

Mixed language sentences &
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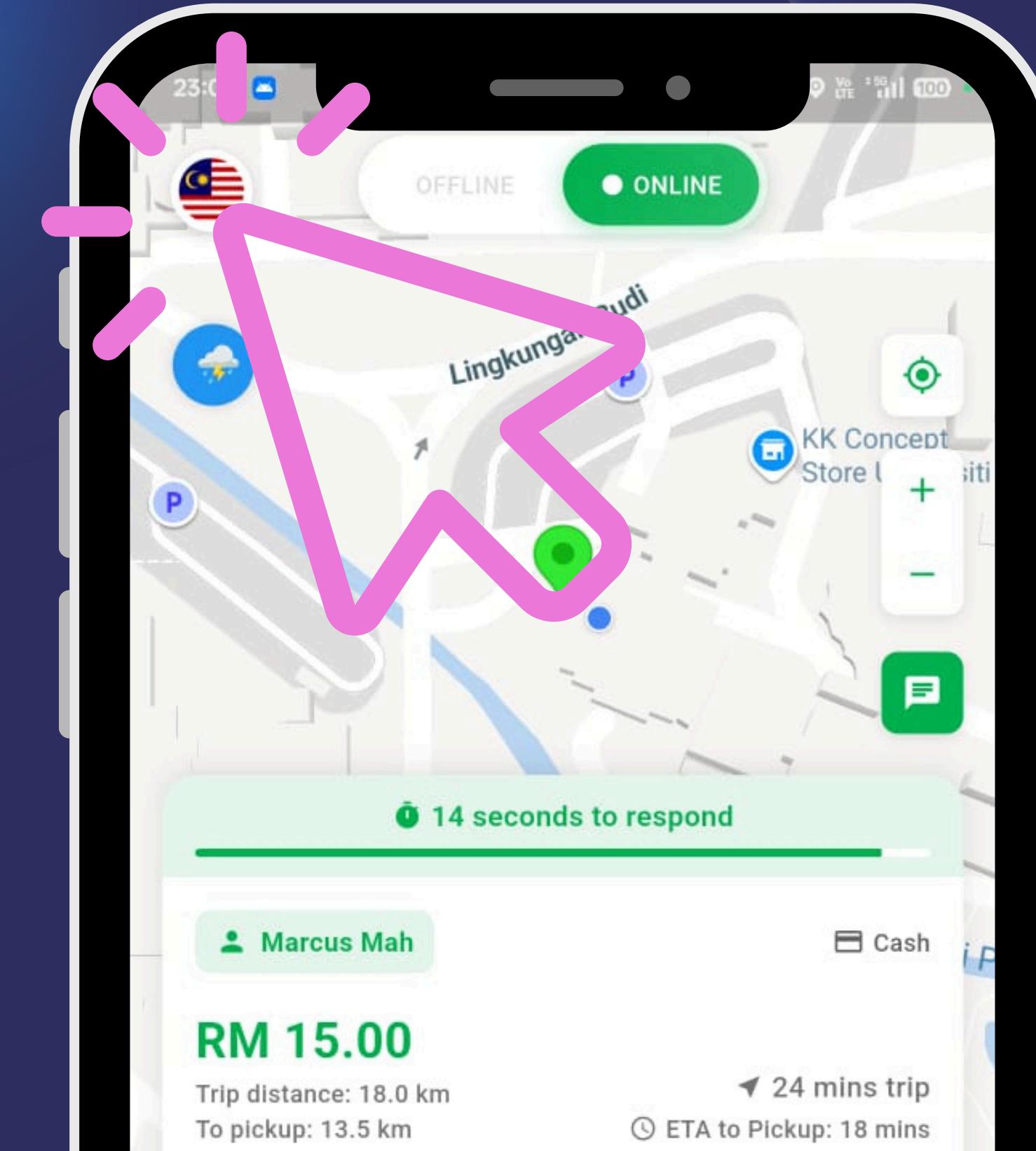
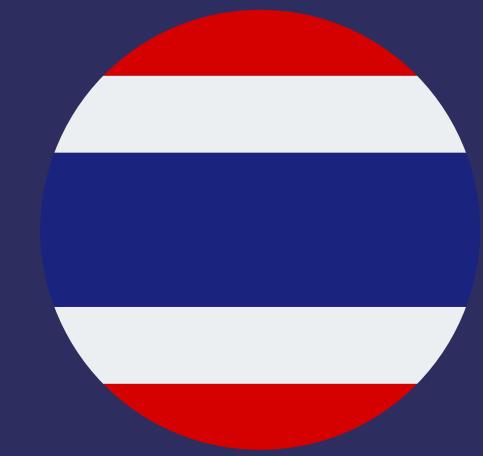
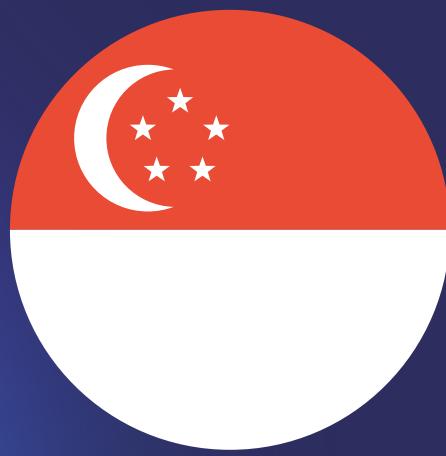
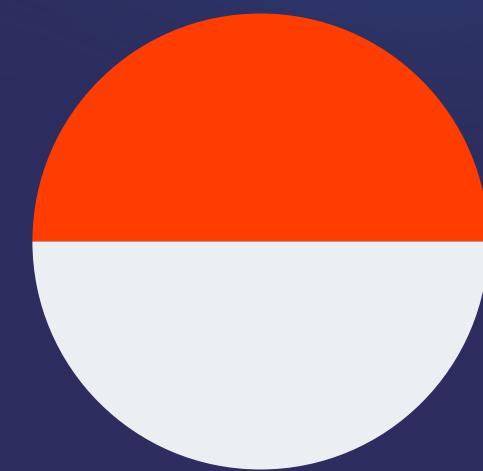
97.8%

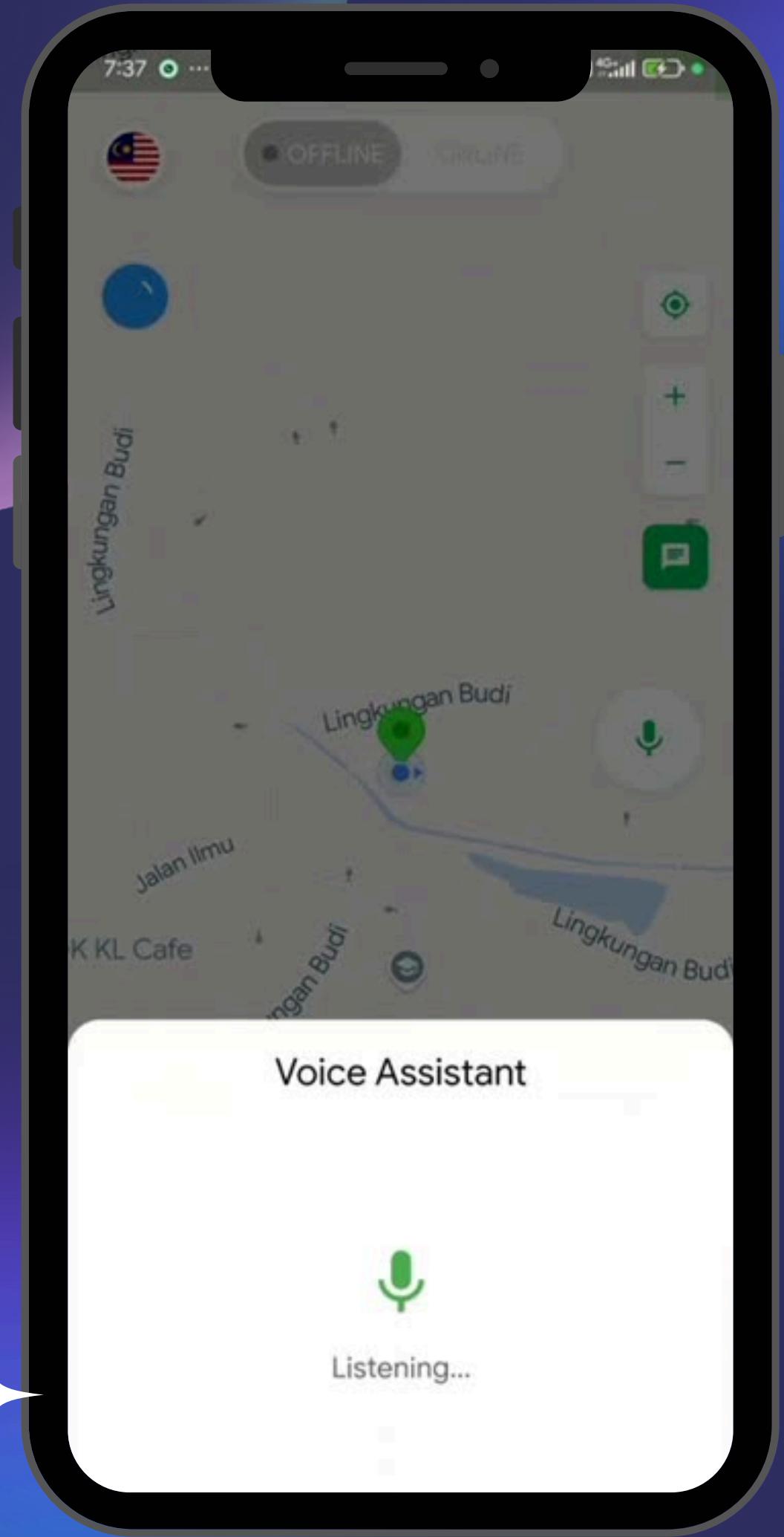
Malaysian Fine-Tuned

CHALLENGE 2:

Dialect and accent recognition

Multilingual &
Location-Aware





CHALLENGE 3: Partial & Messy Input Handling

"May I have the uh... best place to
get ready for..yeah like.. is there any
breakfast shop .. for for nearby"



How we made it work



Front End

Flutter



FastAPI

Back End

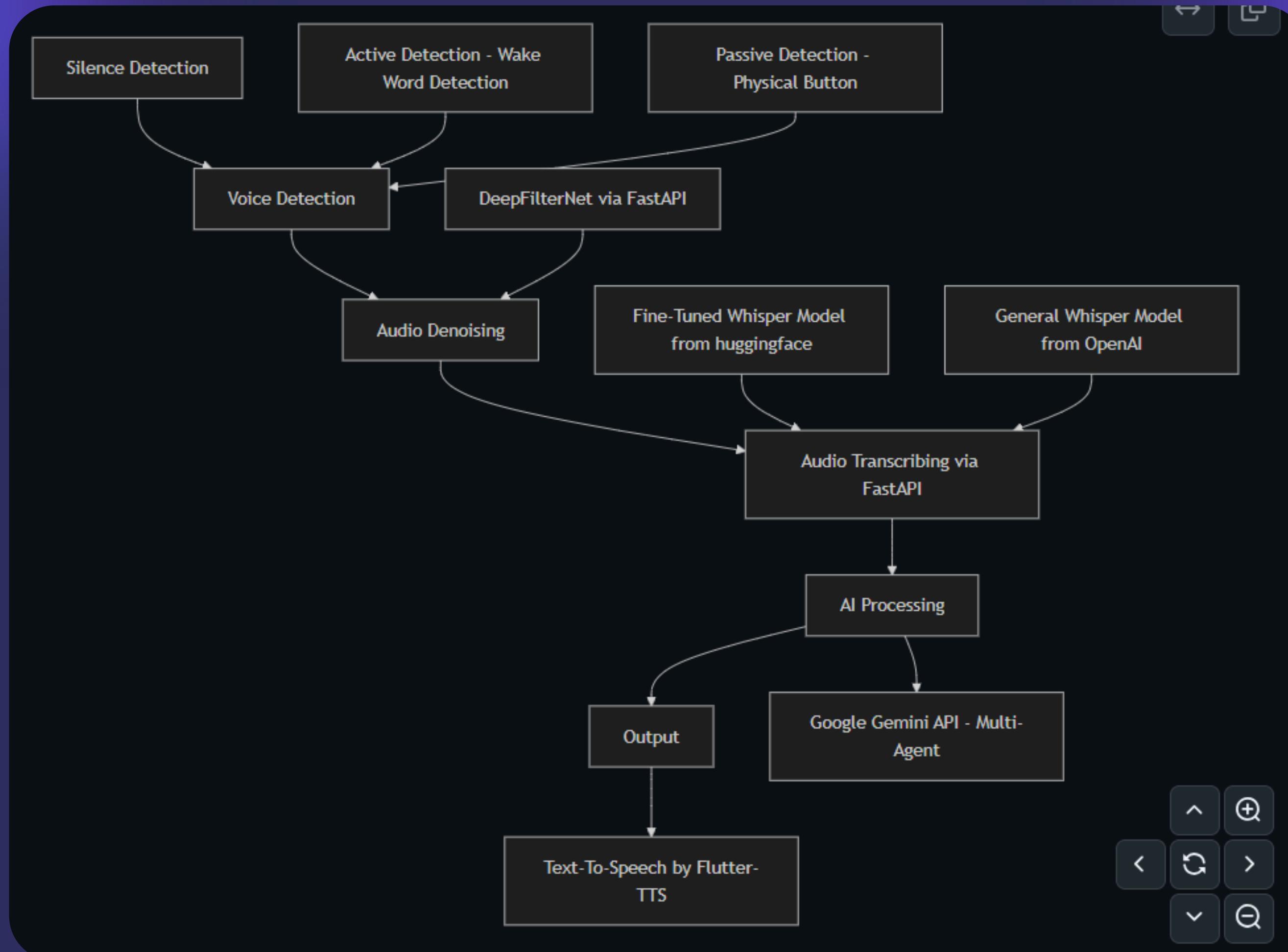
Python
FastAPI

Google
Gemini

External APIs

Google Map API
Google Gemini API

How we made it work



Ours works – ✨ where Others Fail

“Aiyo, this road very jam. Got other way ah?”

“Bro, hantar saya pergi Mid Valley, can?”

“Next stop, Sunway.”



NO MATTER



Harsh Environment



Different dialects
and accents



Disfluent speech

NOW THEY CAN UNDERSTAND YOU



Harsh Environment



Different dialects
and accents



Disfluent speech

IMPACT ON COMMUNITY



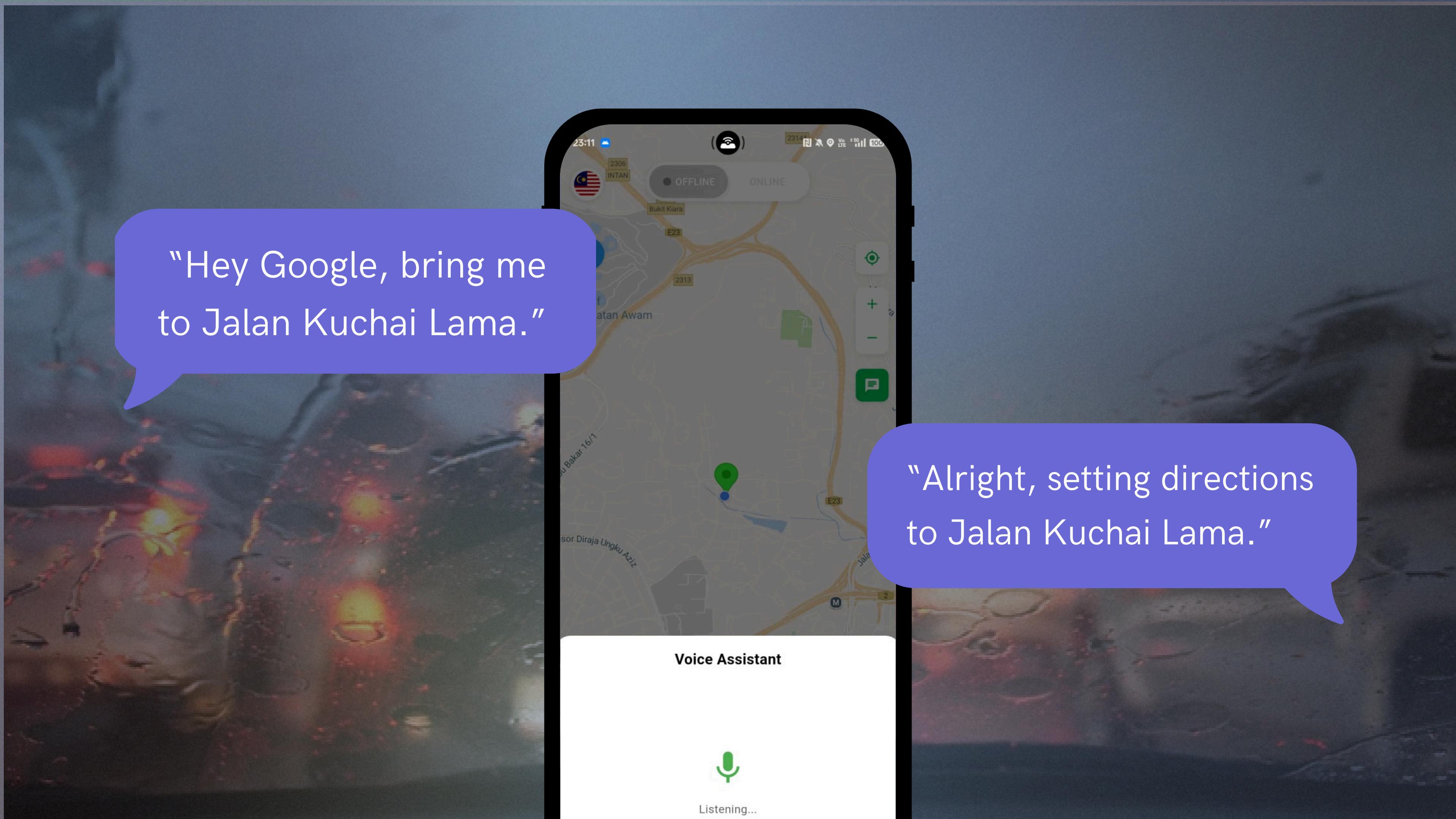
Reduced risk of
accidents



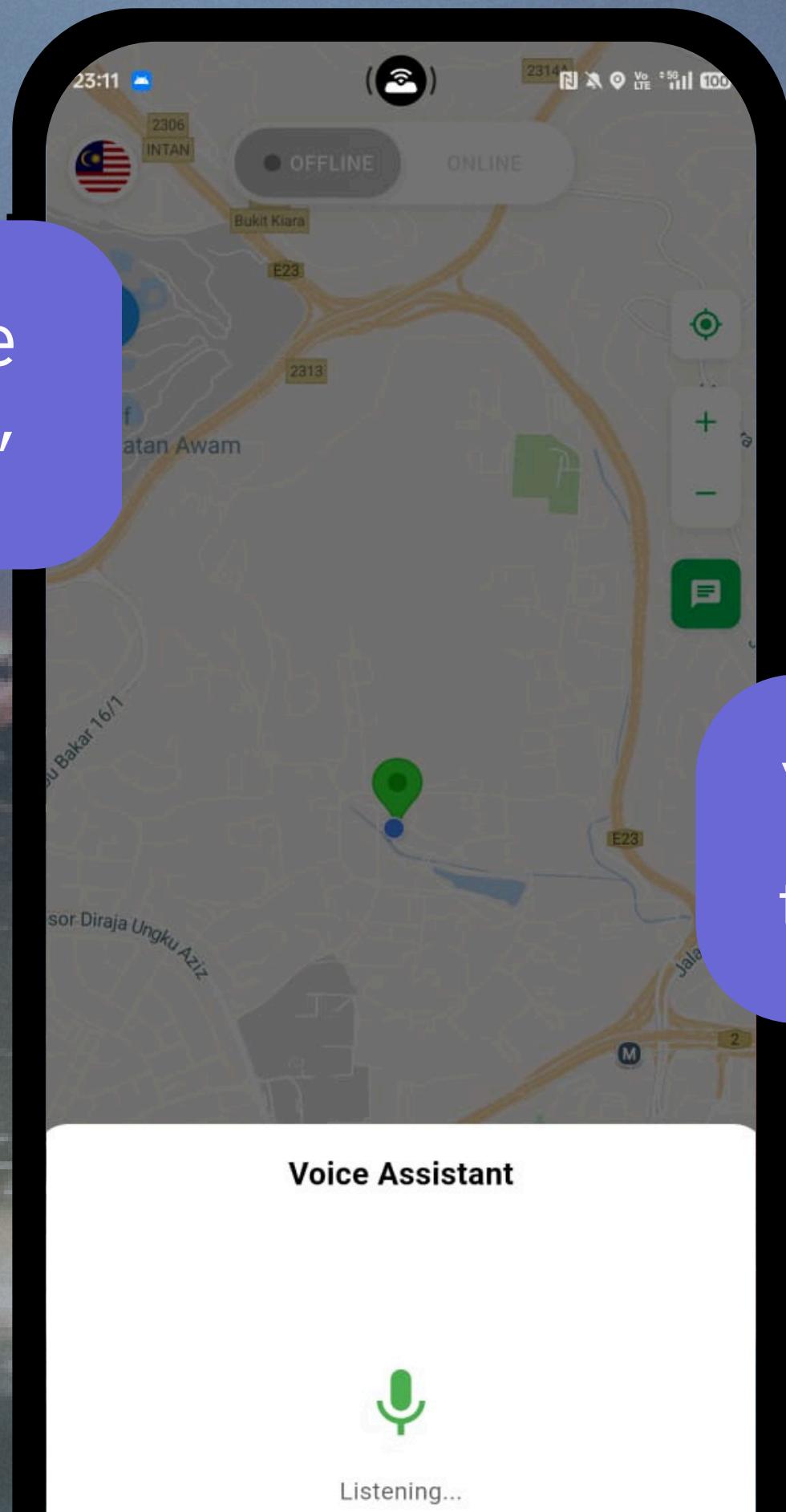
Increase
Productivity

A dark, atmospheric scene depicting a volcanic or post-apocalyptic landscape. In the foreground, several bright orange and red lava flows move across the ground, their edges glowing intensely. Small, scattered fires and smoke plumes are visible, suggesting active volcanic processes or recent eruptions. The background is shrouded in thick, dark smoke and ash, creating a somber and dramatic atmosphere.

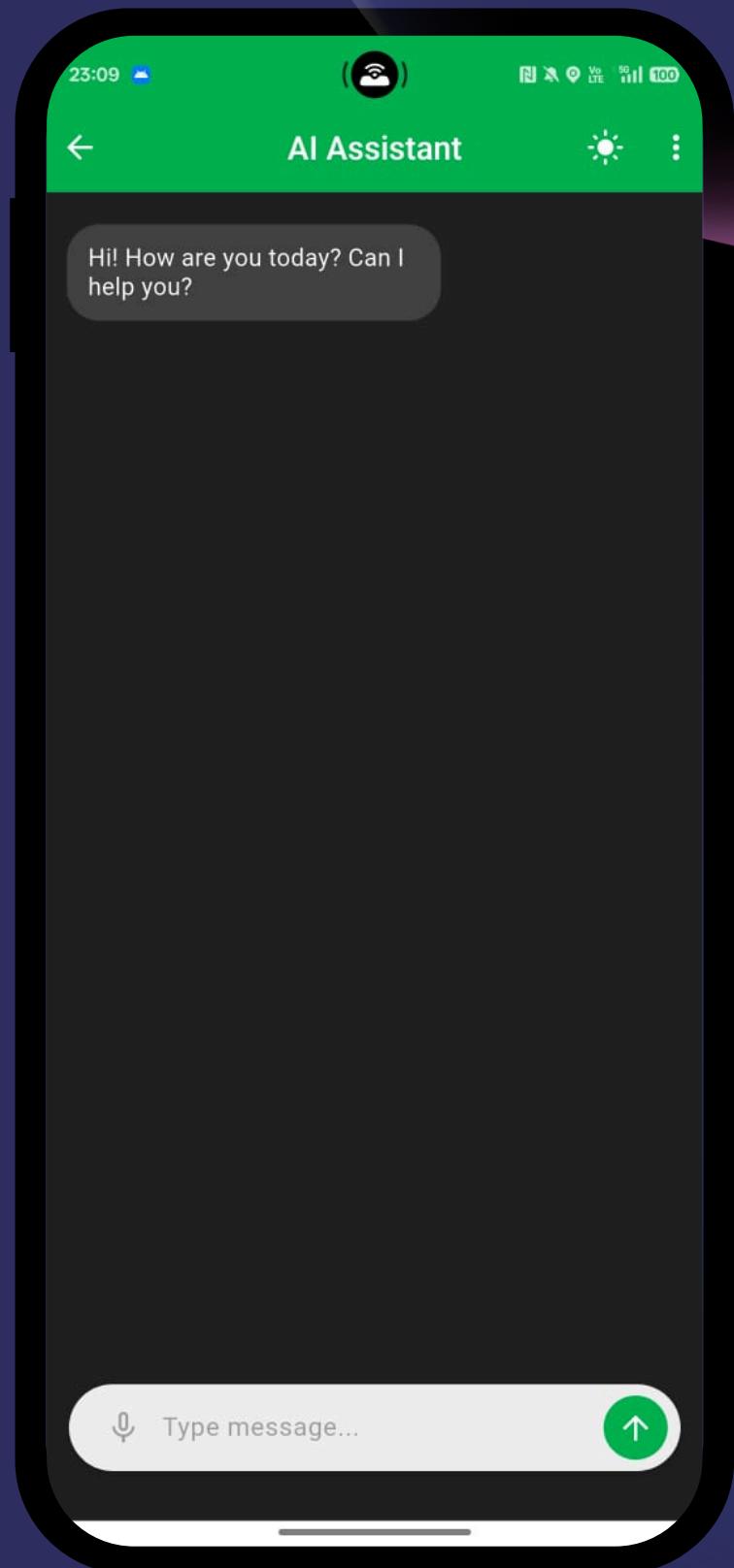
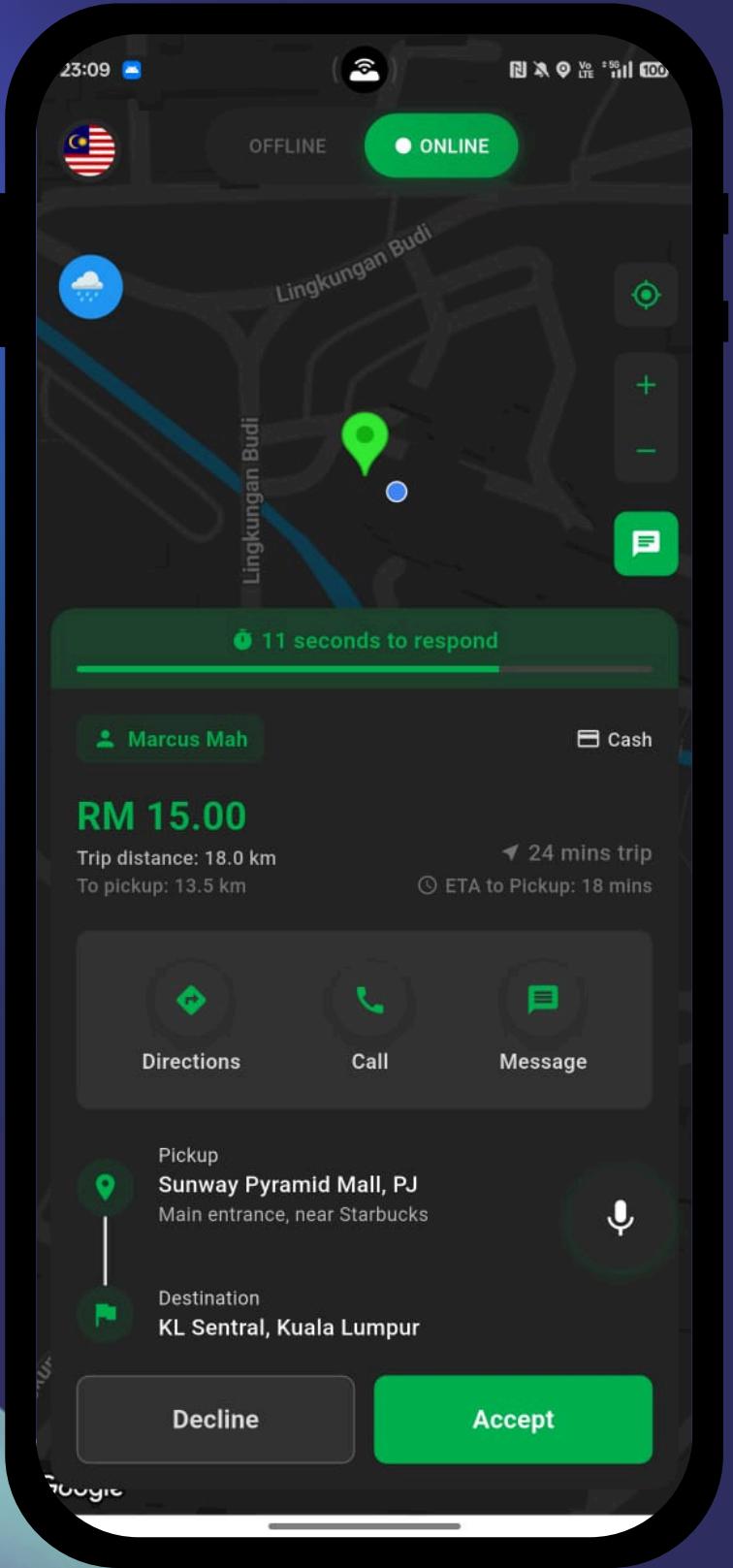
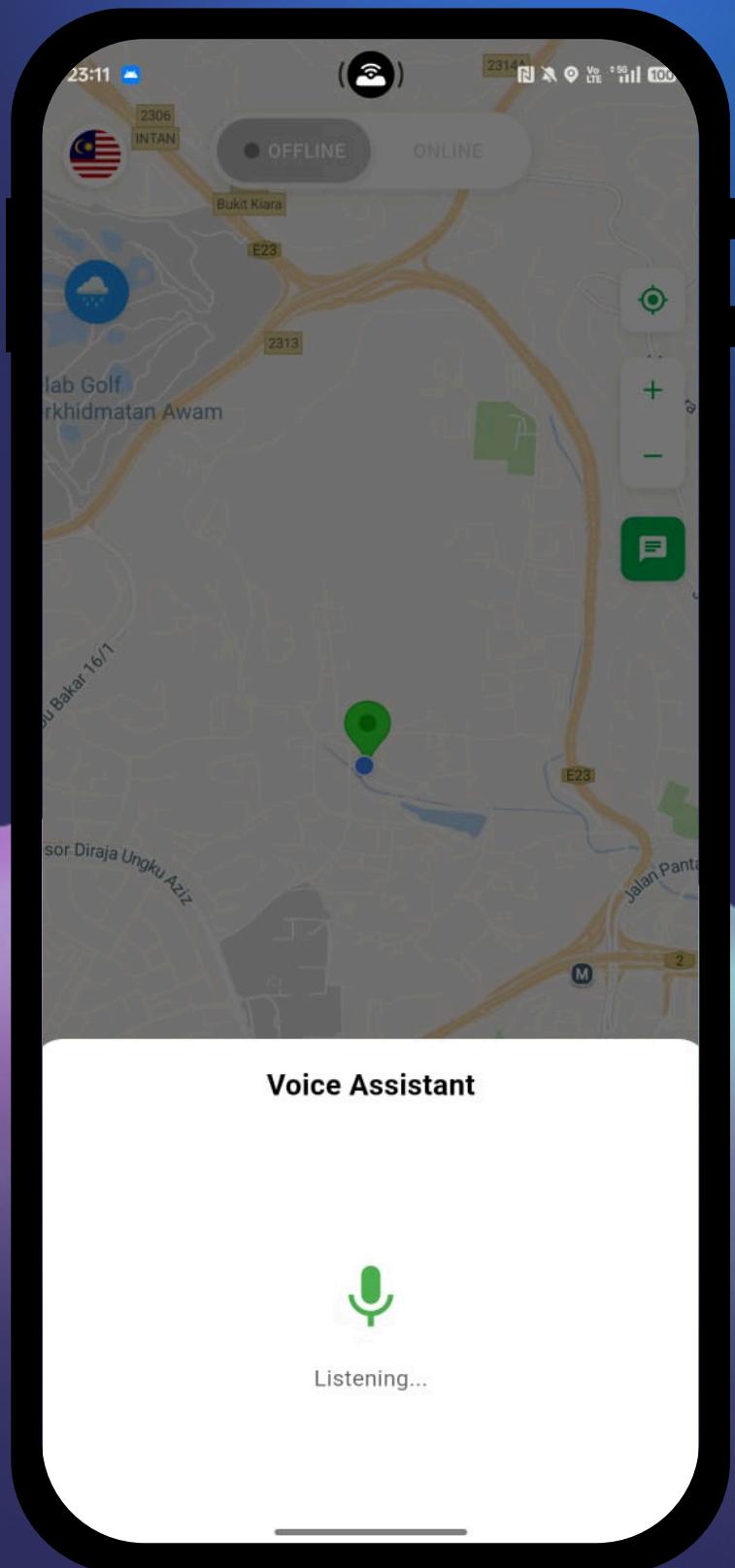
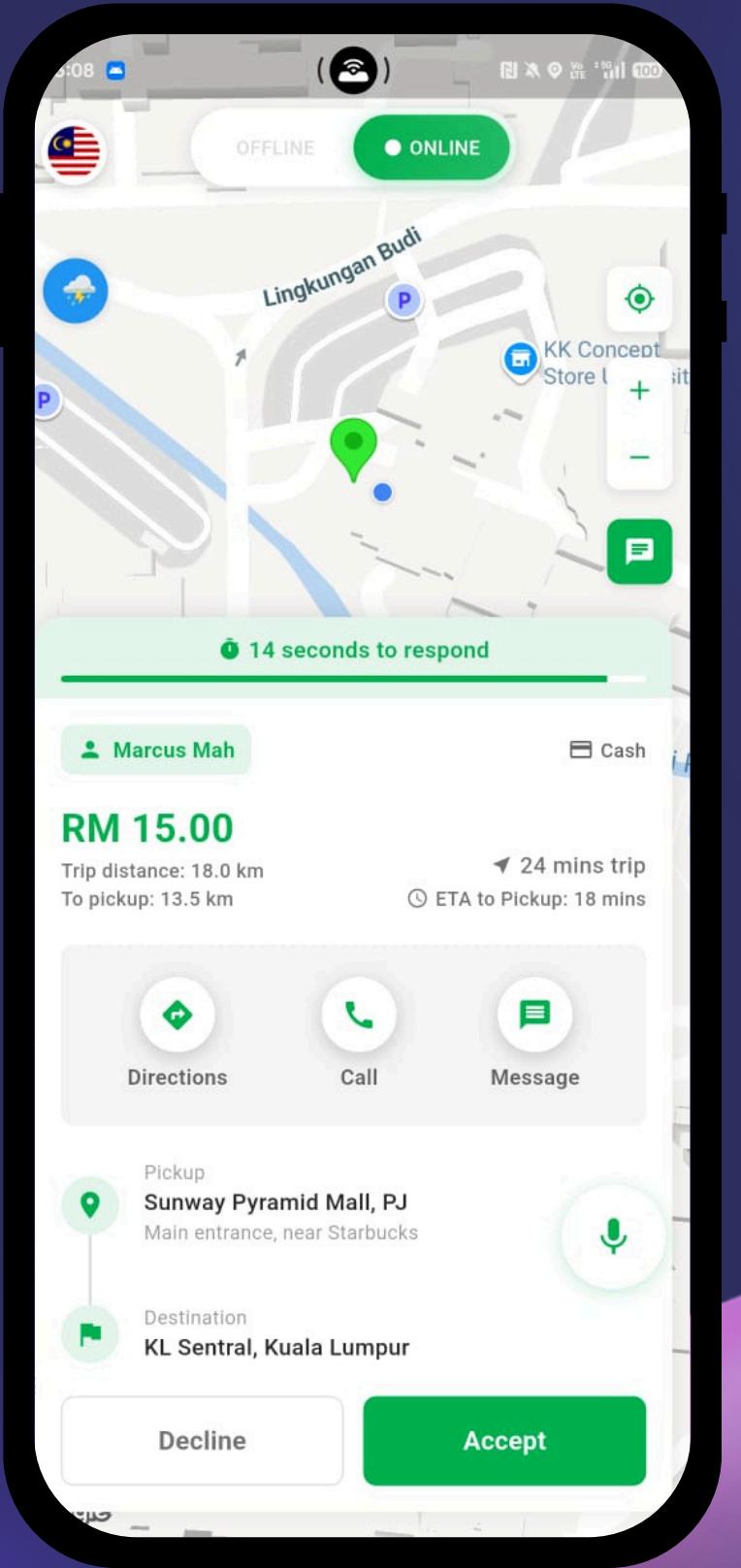
REMEMBER?

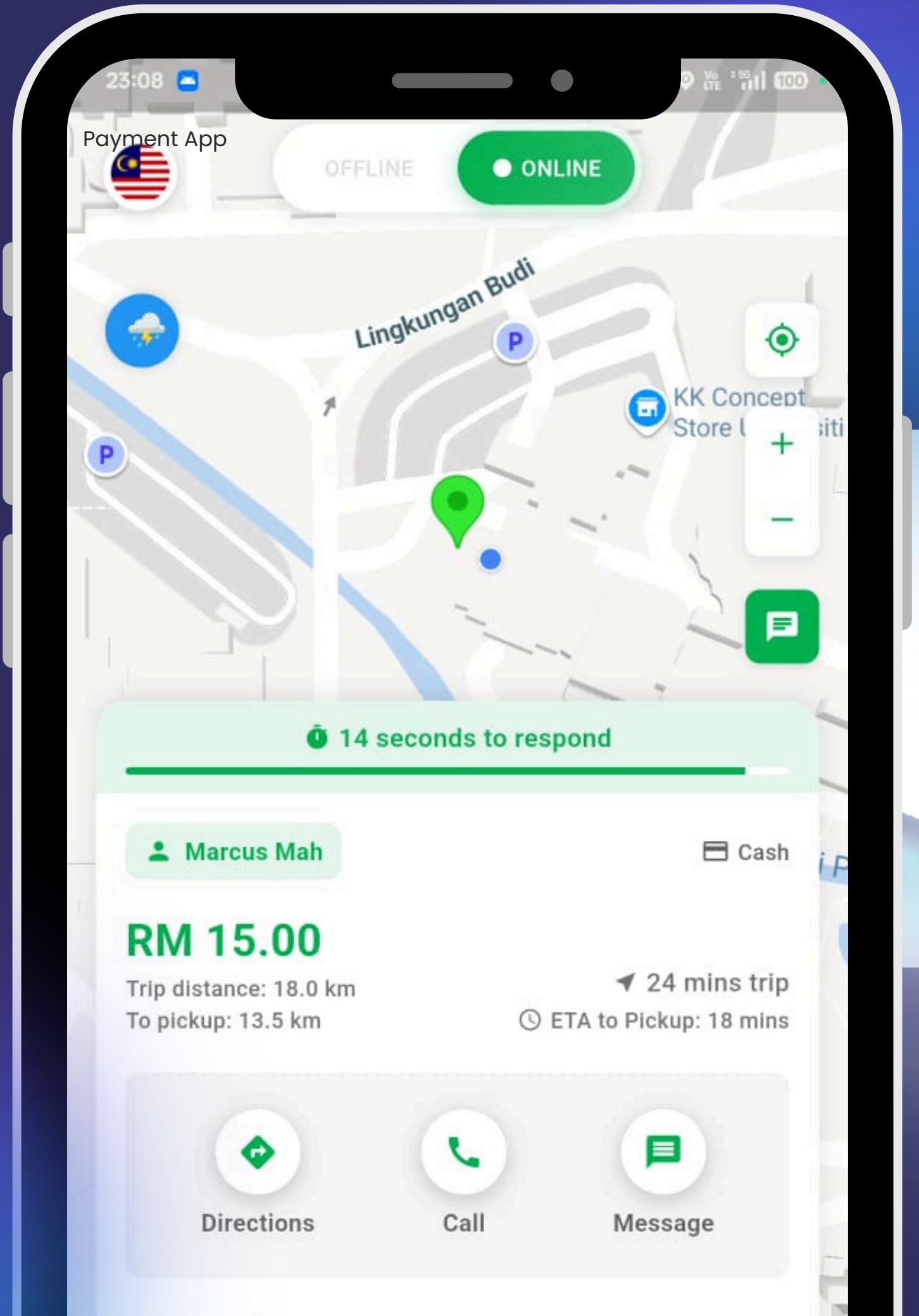


"Hey Google, bring me
to Jalan Kuchai Lama."



"Alright, setting directions
to Jalan Kuchai Lama."





Thank You!

TEAM 405 FOUND

