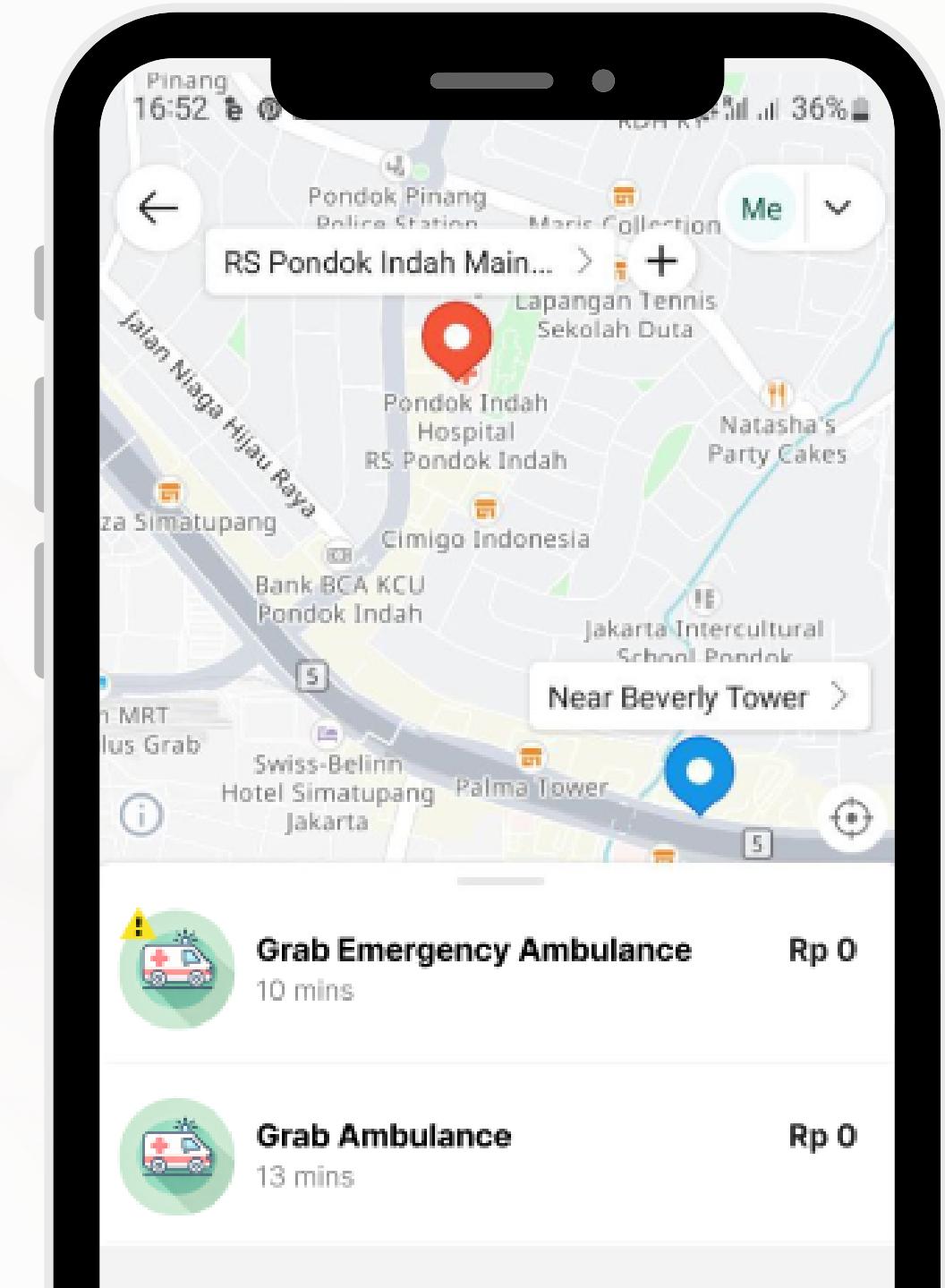


# GrabRescue

EMERGENCY RESPONSE AT YOUR FINGERTIPS



# Problem

Natural Disasters in Jakarta



Heavy Traffic in Jakarta



Non - Essential Medical Response Calls



# Problem

**24** min

MEDIAN EMERGENCY  
RESPONSE TIME IN JAKARTA<sup>1</sup>

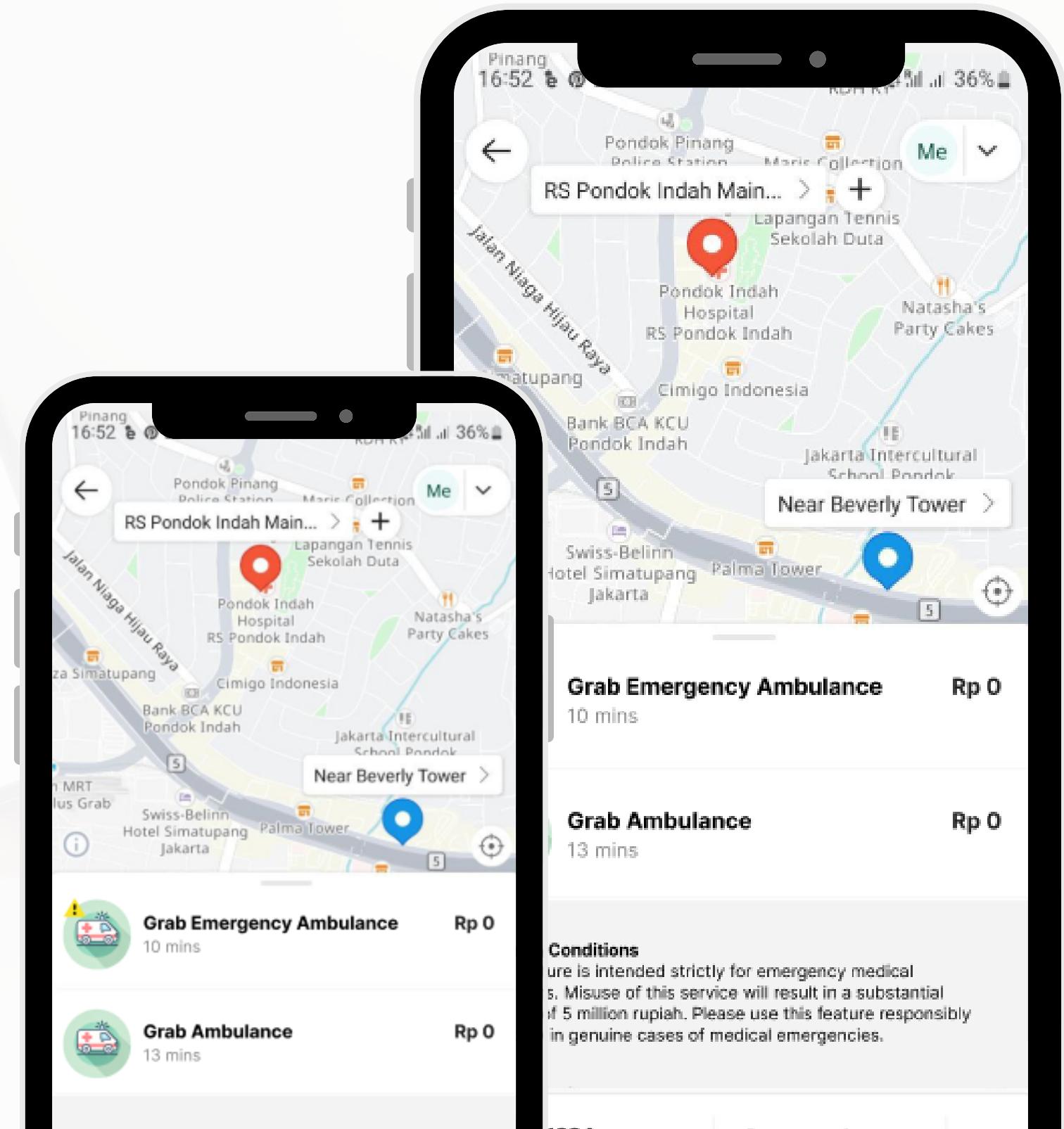
**7** min

IDEAL EMERGENCY RESPONSE  
TIME FOR PATIENTS WITH LIFE-  
THREATENING CONDITIONS<sup>2</sup>

1. BMC Health Services Research  
2. London Ambulance Service

# GrabRescue

The Grab Resceue feature integrates **public ambulance services** by the Jakarta Health Bureau (JHB) into the Grab app, offering users a **seamless way** to access emergency medical services.

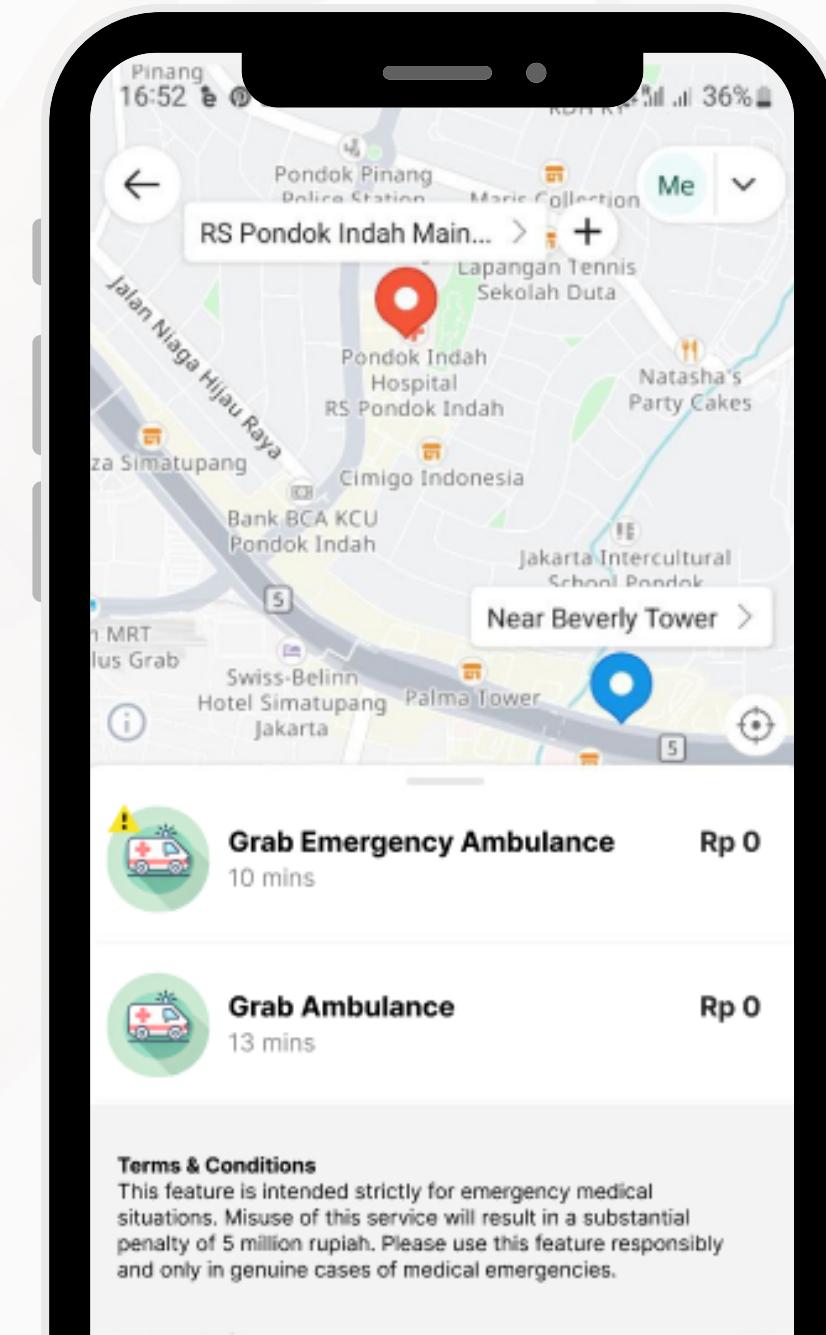


**Conditions**  
ure is intended strictly for emergency medical  
s. Misuse of this service will result in a substantial  
f 5 million rupiah. Please use this feature responsibly  
in genuine cases of medical emergencies.

# Why Grab Rescue ?

## Leveraging Grab's Propreitary Maps

Given Grab's Kartacam mapping of Indonesia, integrating JHB Ambulances in Grab allows more accurate routing through Jakarta's unique terrain



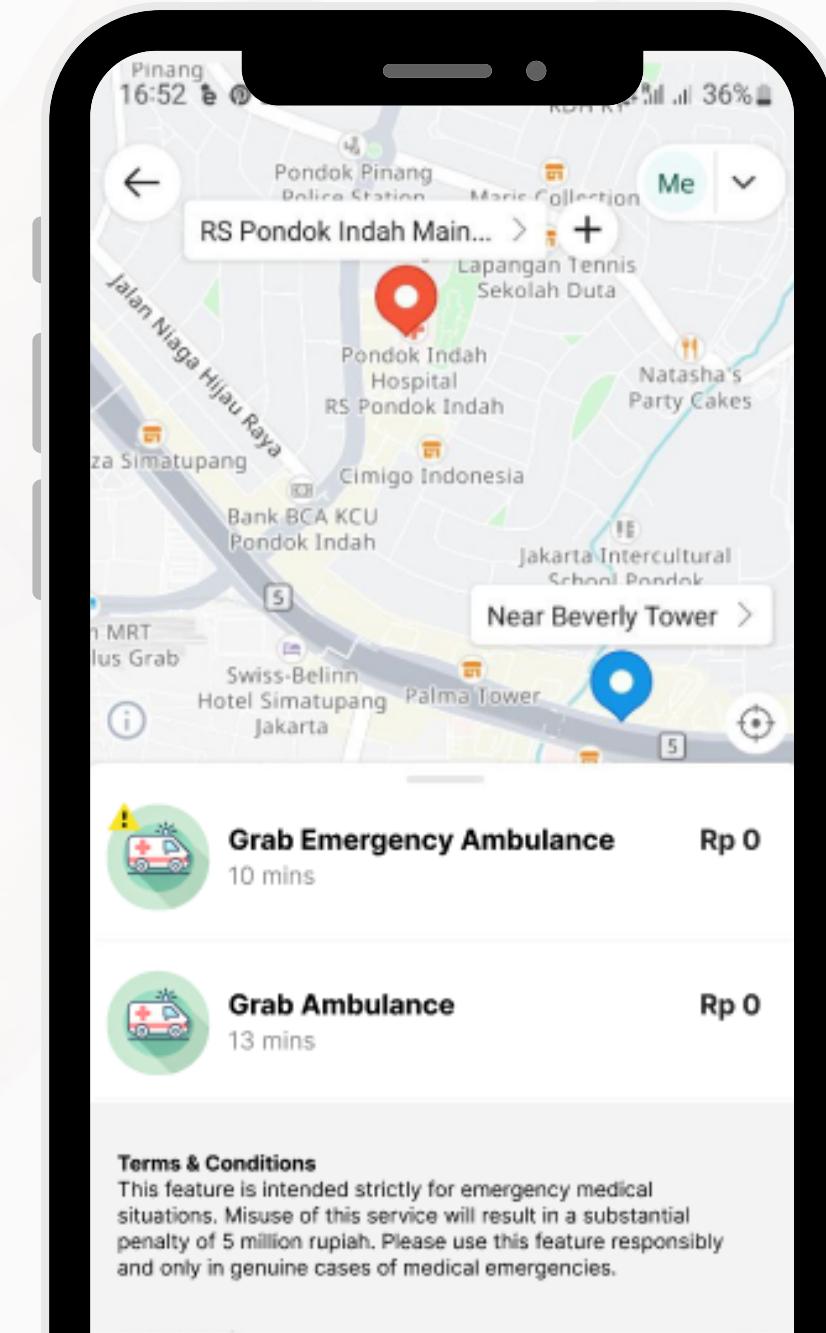
## Utilization of Existing Assets

Uses JHB's already available ambulance assets, reducing the need for additional capital expenditure

# Why Grab Rescue ?

## Efficient Traffic Routing

Alerts all Grab users on the road to clear the way for ambulances, facilitating faster navigation through traffic.

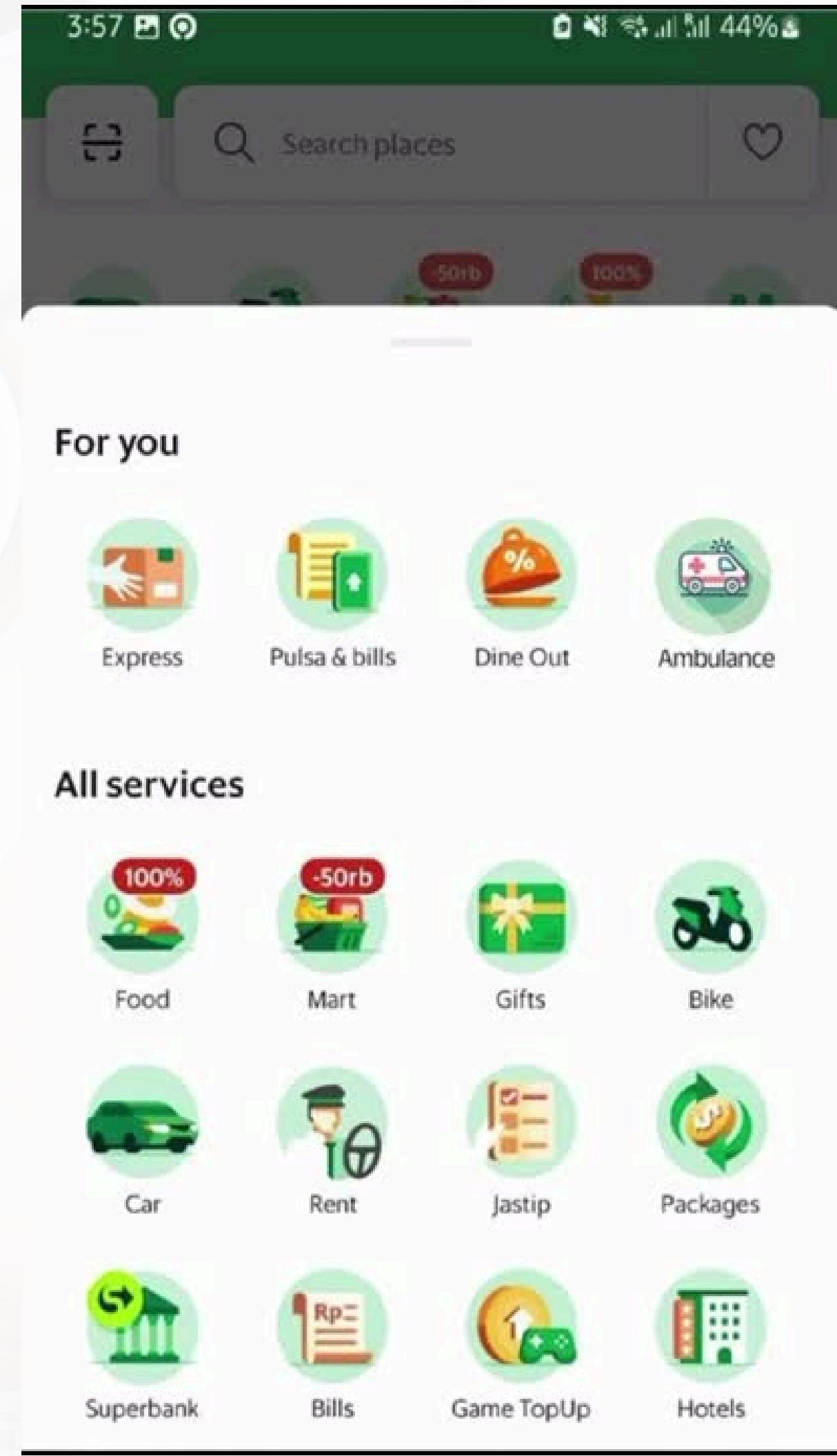


## Prevention of Non-Essential Calls

Links ambulance services to user accounts to monitor and penalize non-critical calls, reducing unnecessary usage.

# Demo Video

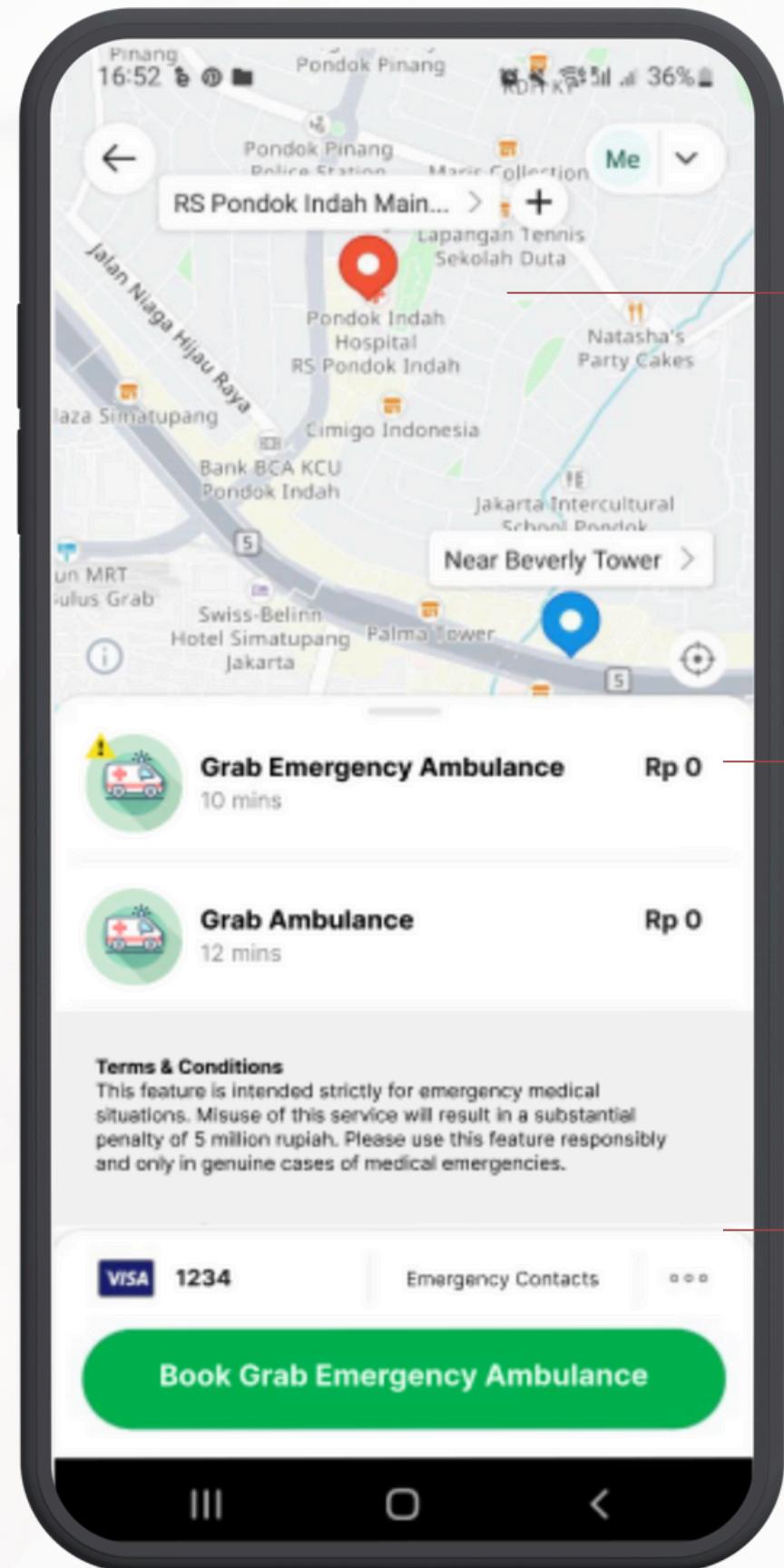
## App Walkthrough



**GrabRescue**

# Features

Patient's POV



## ● Routing to Nearest Hospital

Our backend algorithm will automatically route the user to the nearest hospital relative to the patient's location.

## ● ETA of Ambulance

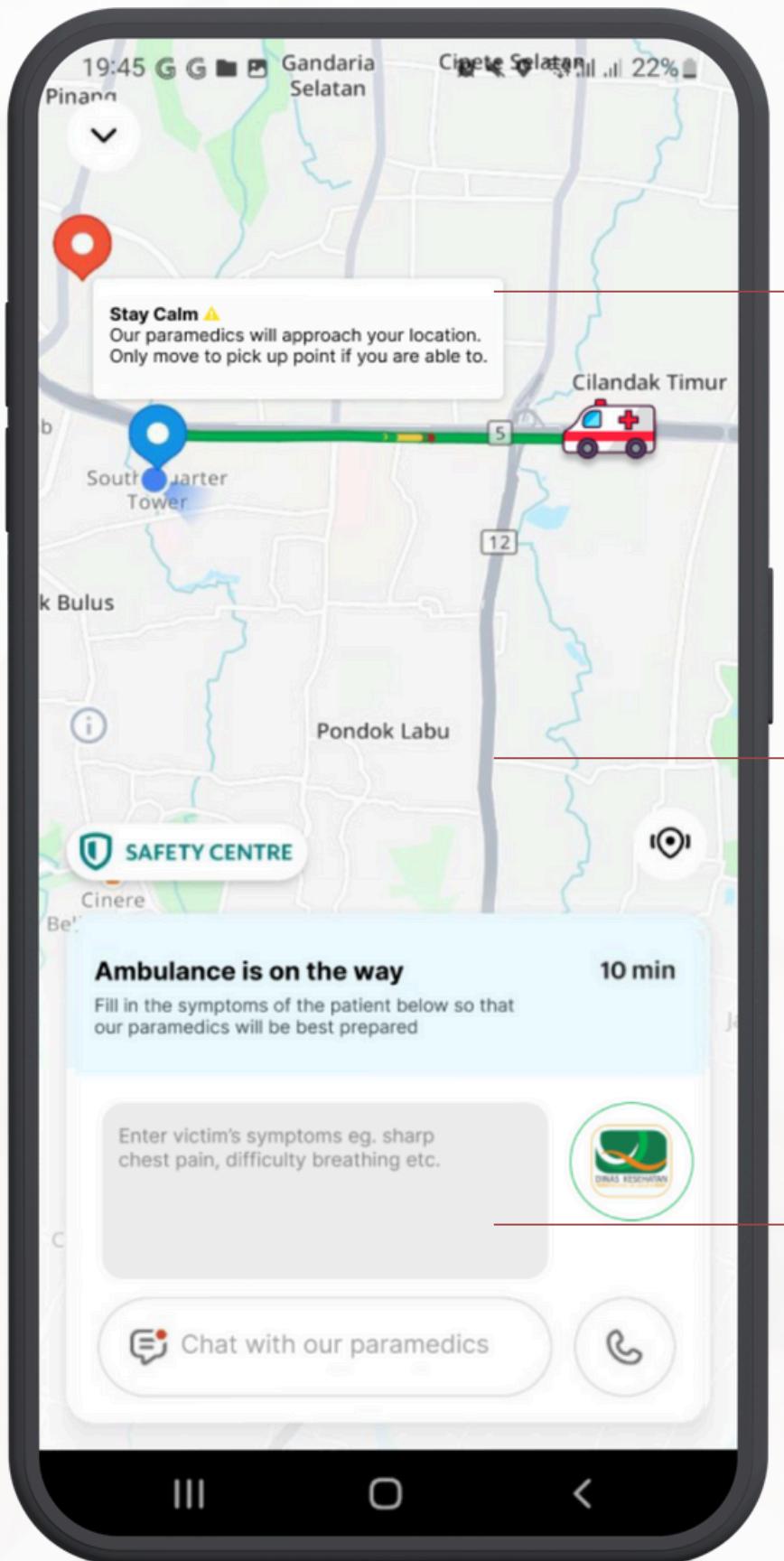
Provides an estimated time of arrival of the ambulance, allowing users to make informed decisions about the best mode of transport (e.g., driving themselves if faster)

## ● Terms against Non-Essential Calls

These terms warn the user to only use this service in critical situations. Users taking advantage of the free service will be **charged a heavy penalty** on their saved bank card

# Features

Patient's POV



## ● Paramedic Updates

Provides user with real-time instructions to handle the emergency while the paramedics arrive

## ● Confirmation of Ambulance

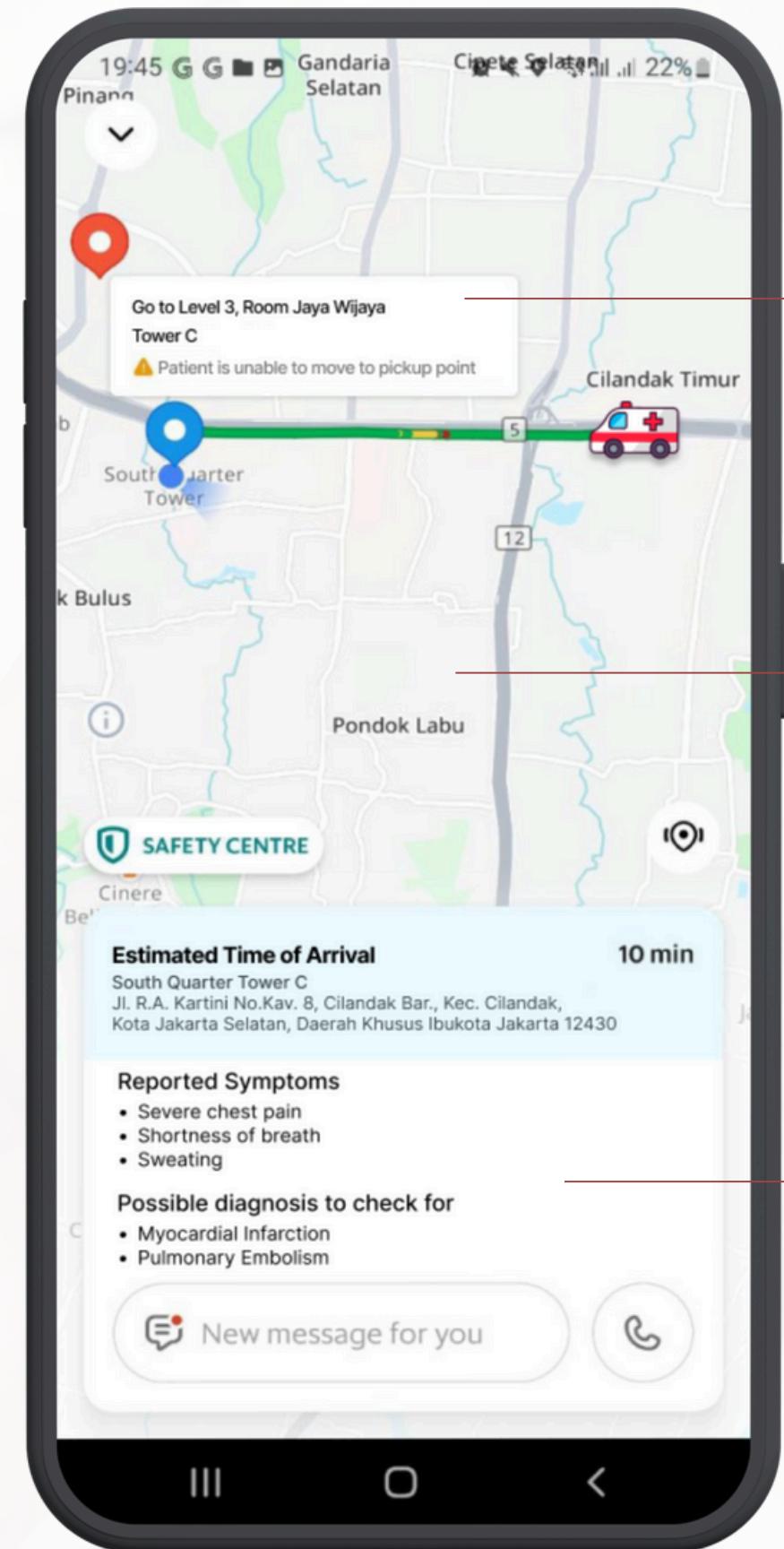
Gives the user a peace of mind that an ambulance has been dispatched

## ● AI-Driven Emergency Triage

AI-driven system to perform an initial triage based on user input of patient's symptoms reported during the booking process. This is relayed to the responding paramedics to prepare them better.

# Features

## Paramedics' POV



### ● Location Instructions

Informs the paramedic of the specific location of the patient within the building

### ● Dynamic Routing

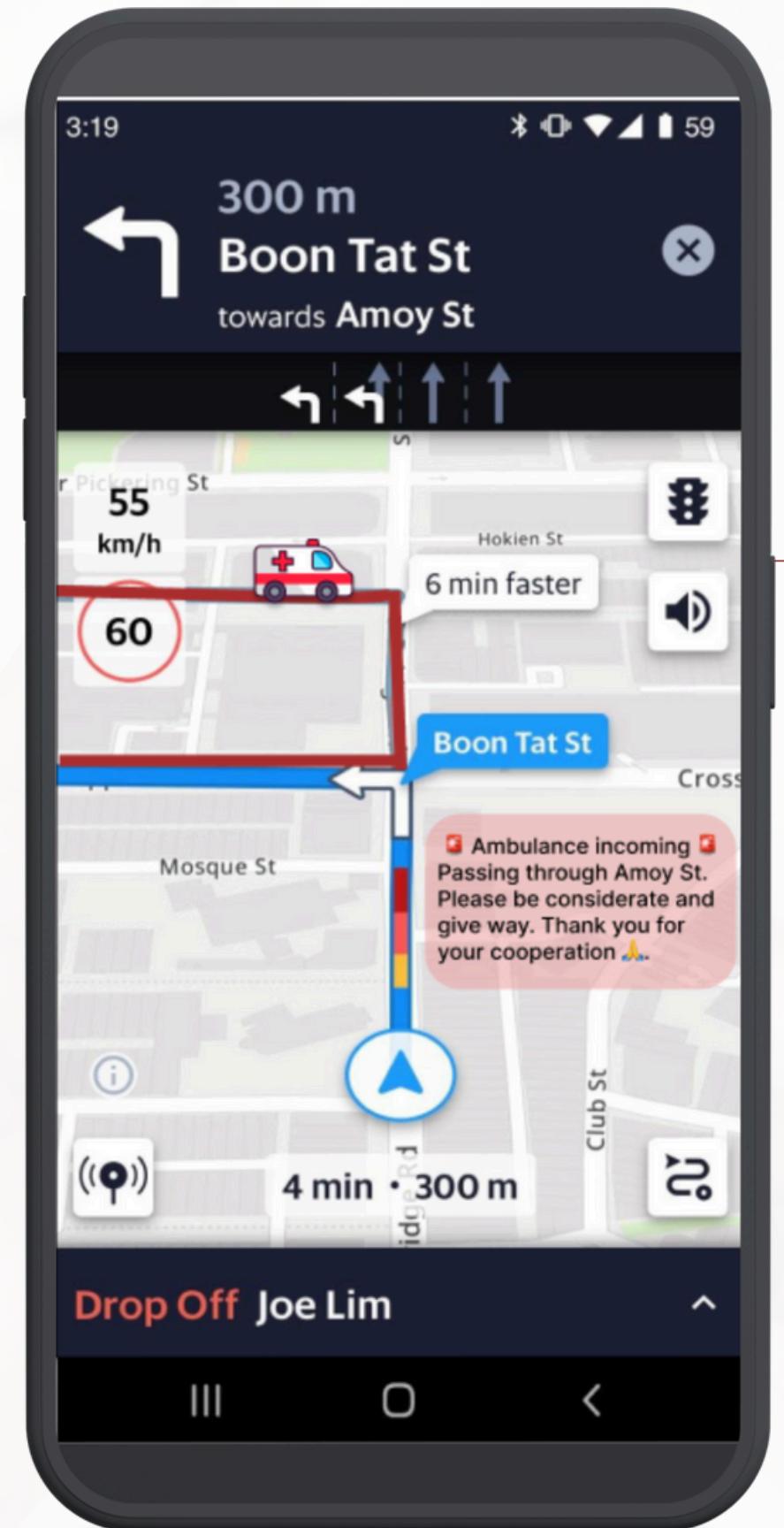
AI algorithms dynamically optimize ambulance routes in real-time, considering current traffic conditions, road closures, and other factors to ensure the fastest possible response times.

### ● Patient Condition

Displays the **reported symptoms** & the AI-generated prediction of the possible diagnosis/condition of the victim.

# Features

## Grab Driver's POV

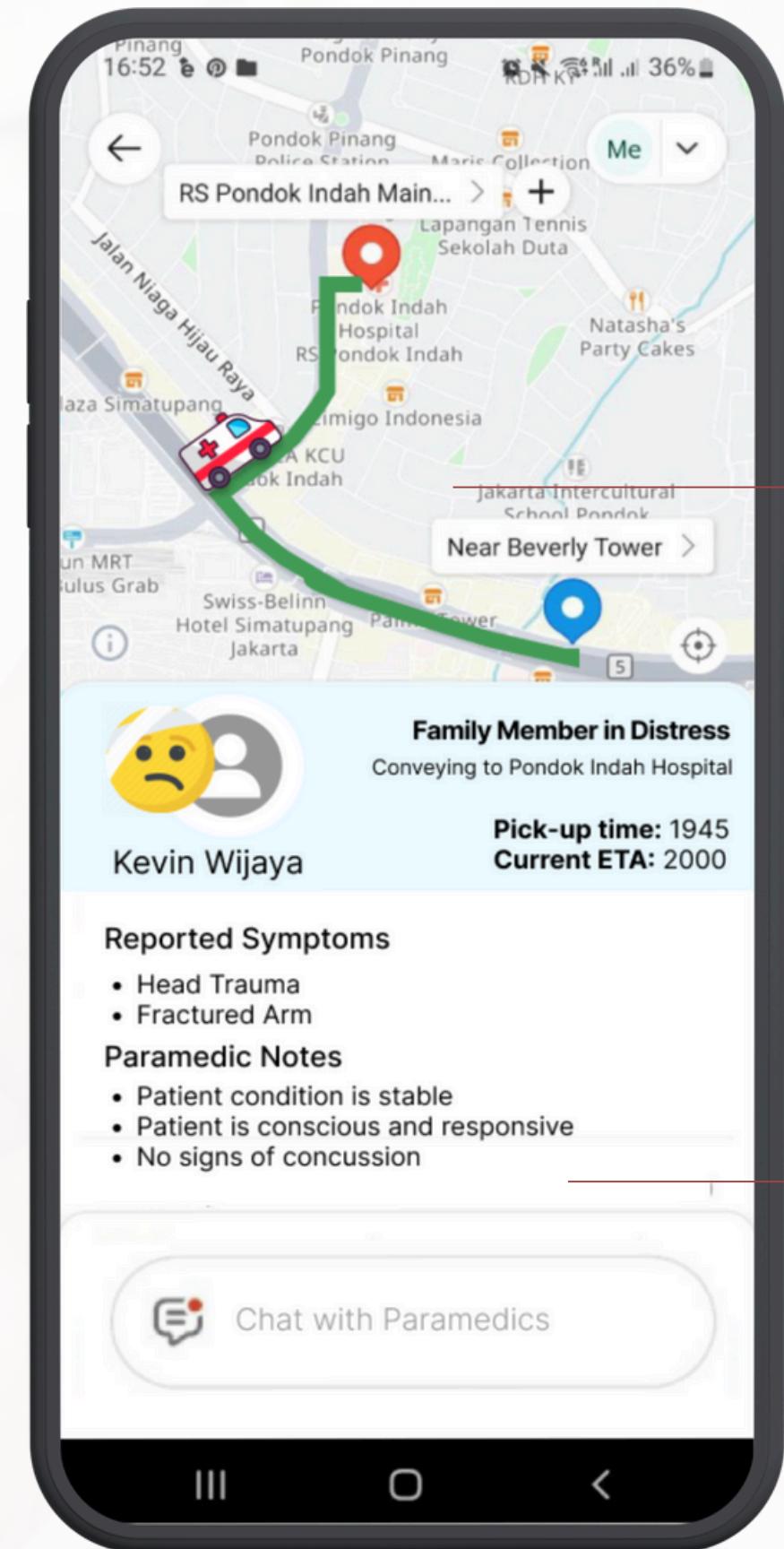


### ● Alerts Other Drivers

Warns nearby Grab drivers and riders about an incoming ambulance, ensuring more efficient and quicker routing to nearby hospitals, **amidst the jams** in Jakarta

# Features

## Family Member's POV



### ● Family Alert/Location-Sharing

Alerts family members of the user's live location in the Grab ambulance.  
Indicates live location of the patient on the map when en route to hospital.  
Displays the condition of the patient and paramedic notes.

### ● Patient Condition

Displays the condition of the patient and paramedic notes.



# Feasibility

WHAT IS GRAB'S INCENTIVE?

## FINANCIAL

- Mutually Beneficial Partnership with Jakarta Health Bureau (JHB): JHB is likely to sign a **contractual agreement** with Grab to leverage on its mapping infrastructure.

## SOCIAL

- Improve **public safety** through better access to Jakarta's Healthcare services.
- The Grab Ambulance feature remains **free** for users, aligning with the current model of public and community ambulances in Jakarta.

# Future Roadmap



## Predictive Analytics

Use a machine learning model to predict optimal dispatch points for ambulances to better serve the patients.

## Expansion To Private Ambulance Service

Scale the current feature to include private ambulance services which will be chargeable

## Real Estate - Commercial Opportunities

Sell data on heavily served areas to entities interested in building private hospitals.

## Data Collection and Analysis

Store data to identify locations where medical services are frequently required

# Team

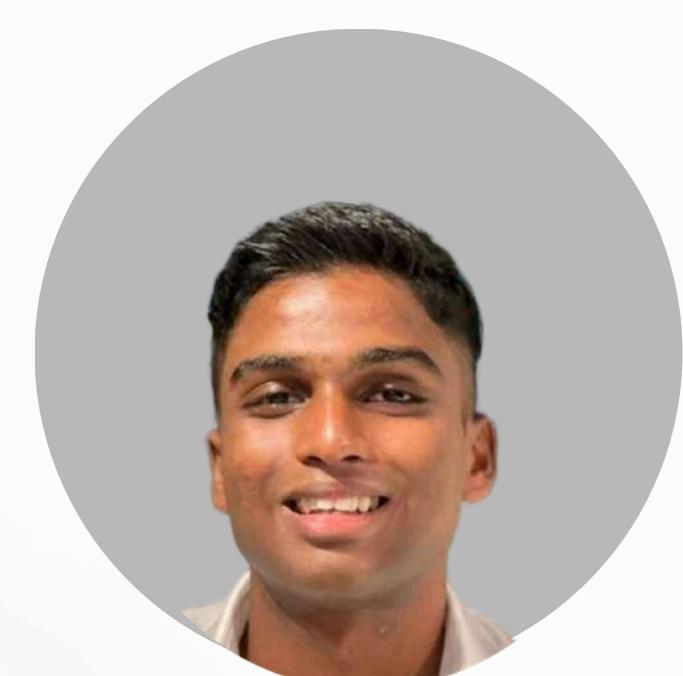
**Lavande\_Hackers**



**Huin Hao Ze**  
NUS Business Analytics  
Data Analyst

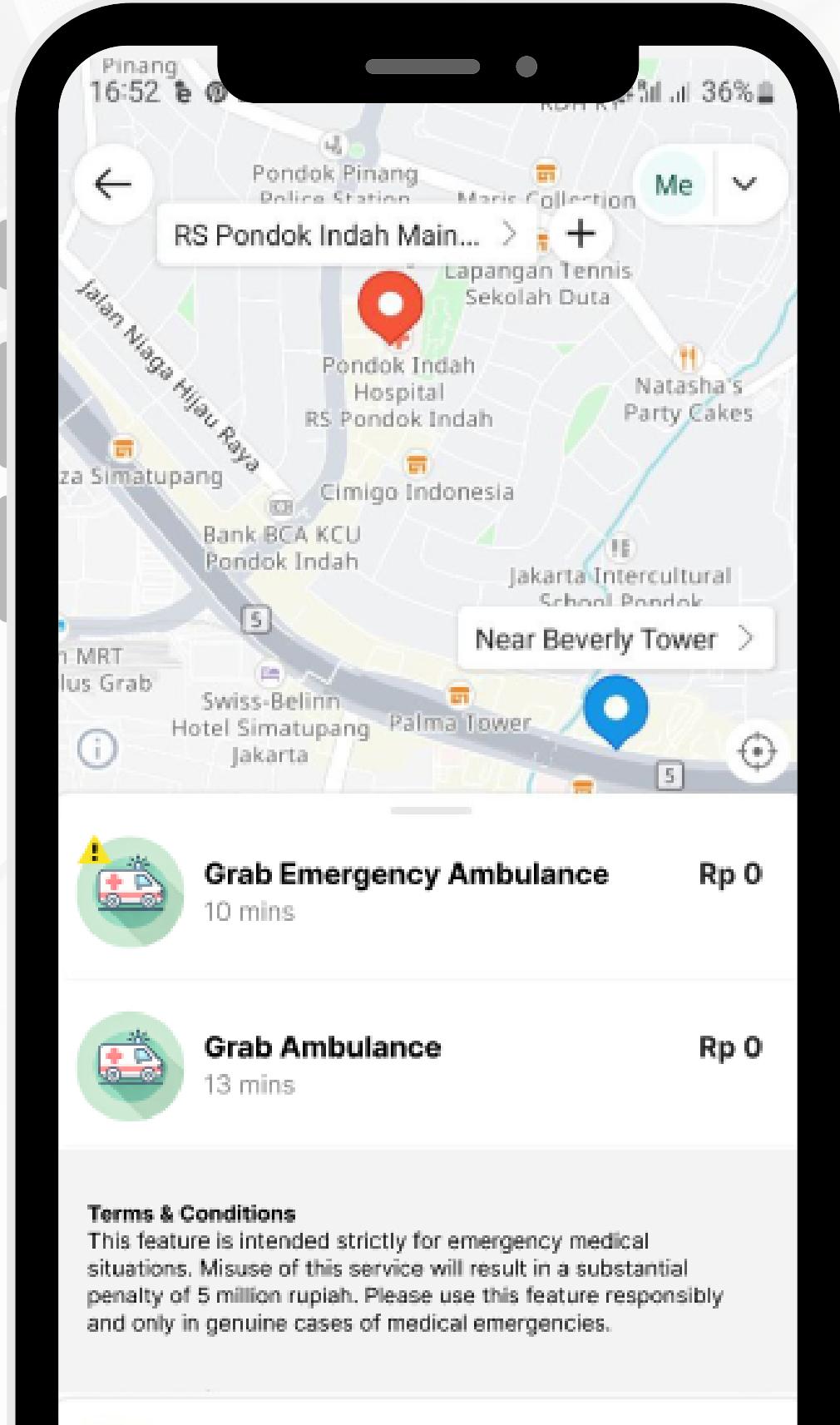


**Sean Kevin Dias**  
NUS Computer Science  
AI/ML Engineer



**Siva Adharsh**  
NUS Data Science  
Data Analyst





# GrabRescue

EMERGENCY RESPONSE AT YOUR FINGERTIPS

Thank you

**Terms & Conditions**

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