

Uber's Emergency SOS Service



BY ARPIT BHAYANI

Uber's Emergency SOS Service

Emergency Button on Uber app is life saving and when in an emergency, every second matters

When the emergency button is tapped



- 1. critical details are captured and sent to the nearest local police Ly current location by trip details
- 2 the location is continuously sent and kept updated

Ly vehicle details 4 driver I rider details

- 3. an optional SMS 1s compiled and sent to the First Aesponders
- 4. Uber's internal support feam is notified and they keep an eye on the vehicle movement 4 co-ardinate

Caphwing location

when sos is pressed, we capture the GPS location.

To make it simple for the first responders, (authority and the rider to communicate we show and send

Gon the phone

the address of Reverse Geocoding ----

also, location should be continuously captured and broadcasted

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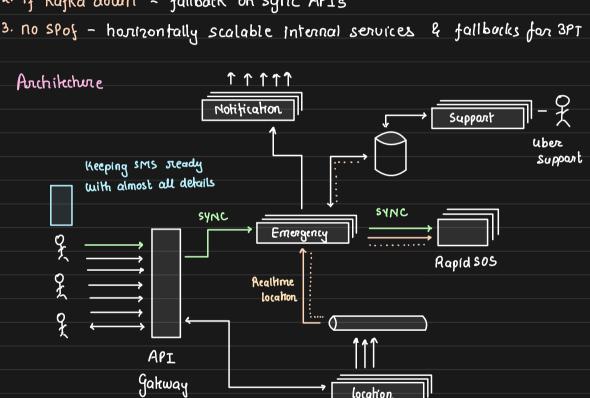
How to notify local police? A third-purly service named Rapidsos comes handy Appidsos provides API to send data to the local police authority and we use it as a bladsbox. Emergency Rapidsos Notifying other channels Local Police Authority We should not only notify local Police Authority but also internal support and emergency contacks * all these communications should be decoupled so that failure of one does not affect other So, a simple broker can be used here to decouple the notifications Rapidsos 7 Tust a schematic repr Support Emergency Contact

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Reliability and Availability

Services involving emergency situations should be highly available 4 neliable

- 1. Katka persisknie, at-least once delivery
- 2. if katka down fallback on sync APIs



location Data

Emergency Contack

(continuously captured) 2. Collect location and stream it

1. Create emergency

3. Notify on vanious channel - Appidsos, Support,

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