Elderly Lost & Found System
Mobile application for elderly and their caregivers
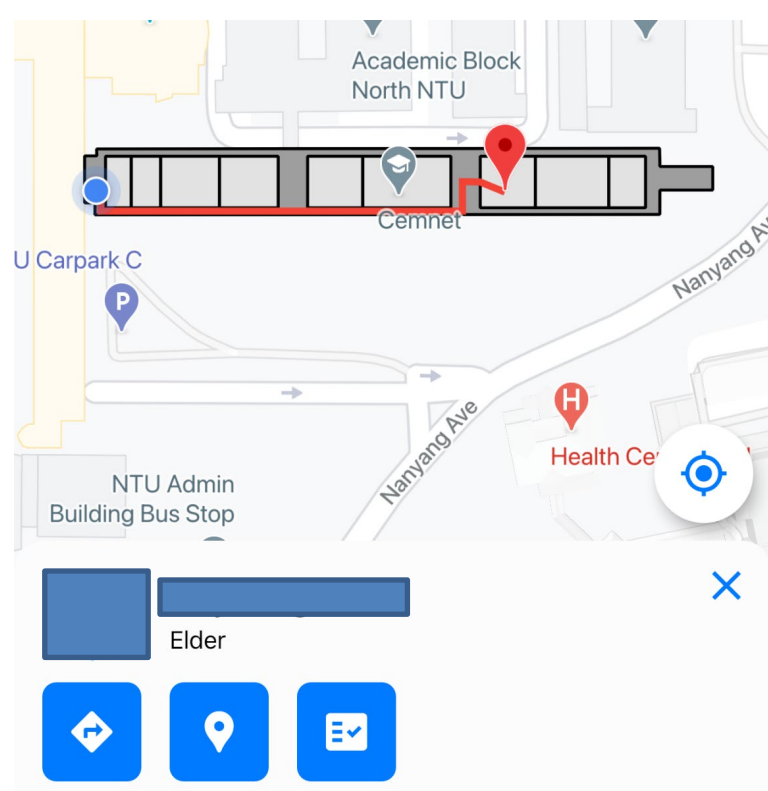
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PROJECT OBJECTIVES

Singapore is facing the issue of an ever-increasing aging population. Caring for the elderly, especially those with conditions such as dementia, can be challenging.

The system strives to be an all-rounded application solution that addresses the needs of elders and their caregivers in Singapore, to improve their well-being and reduce their burden and stress, respectively.
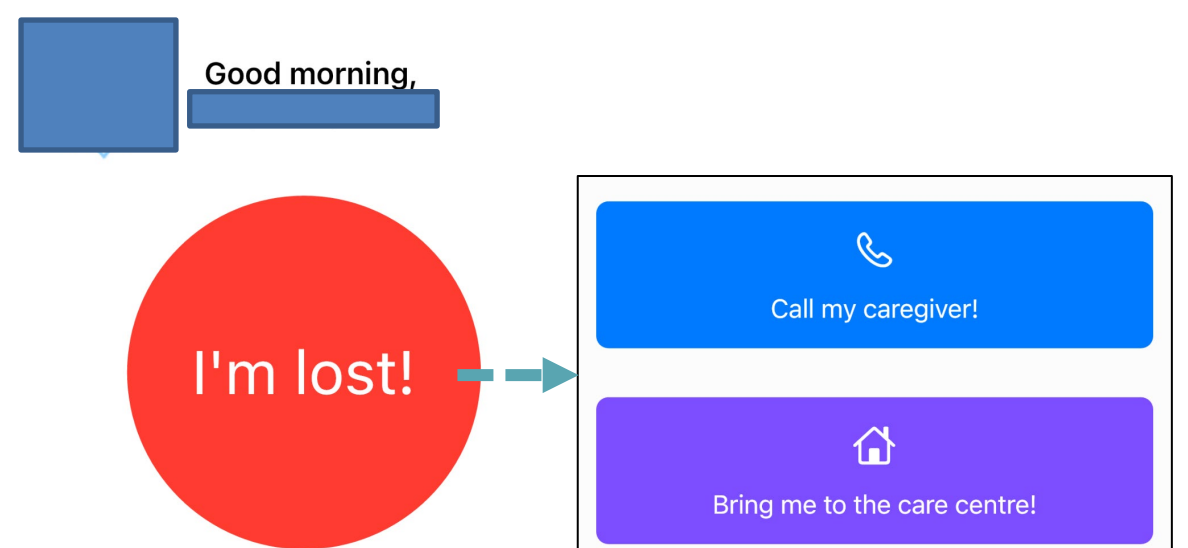
REAL-TIME ELDER TRACKING

Outdoors:
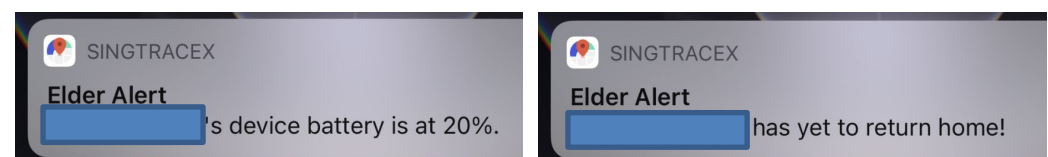- GPS location (Apple & Android API)

Indoors:
- GPS + Wi-Fi fingerprinting (Android only) + Bluetooth beacon pass-by
- More accurate indoor location due to GPS limitations
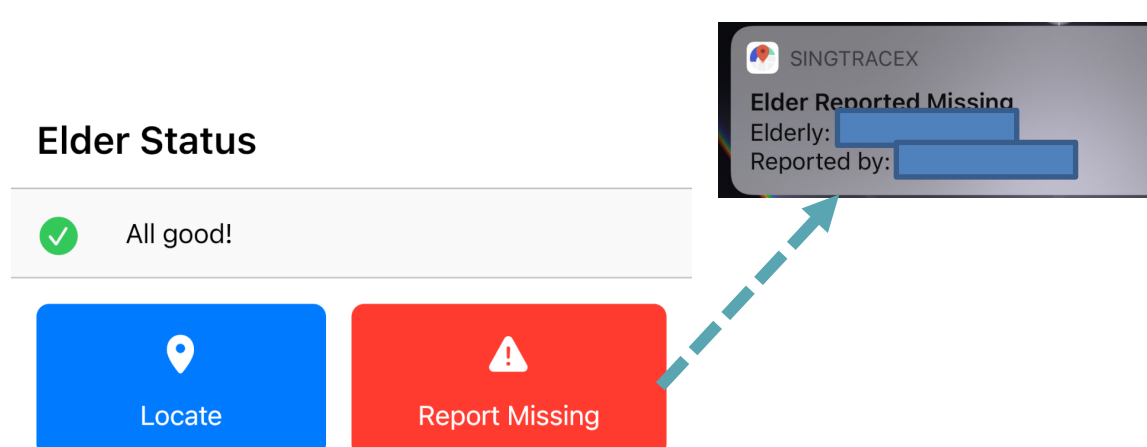
ELDER SOS

- Simplified UI for elders to quickly call for help
- Configurable SOS actions to cater for different user requirements
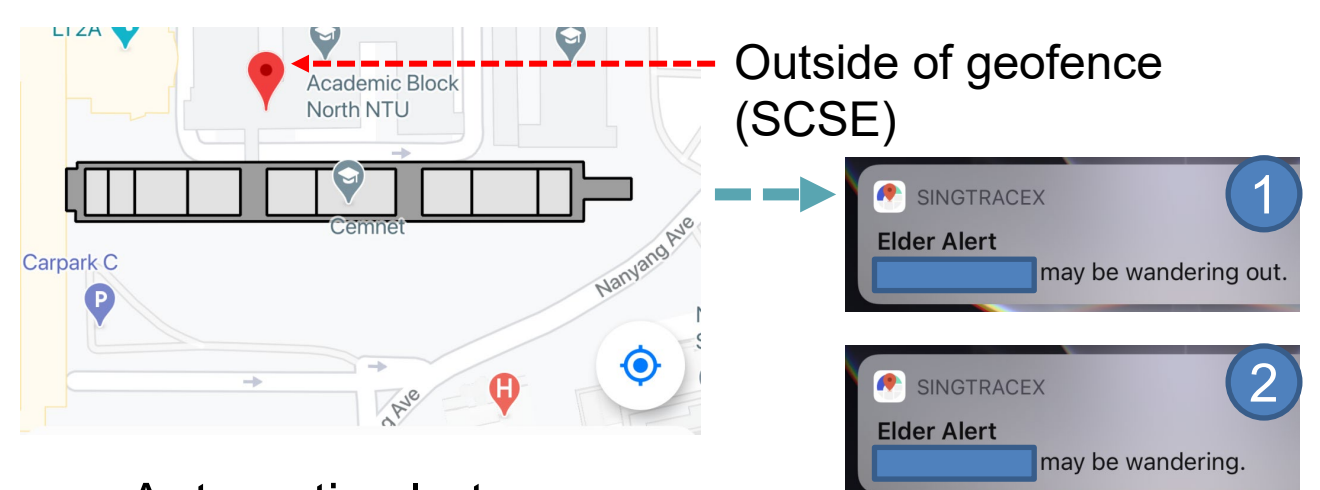
SMART ALERTS

- Device condition alerts
- Distance and time-based alerts (configurable)

ELDER LOST & FOUND

- Caregivers may report an elder as missing or found
- Notification alert sent to all caregivers of that elder

Outside of geofence (SCSE)

- Automatic alerts:
  1. Elder's location is outside a care centre's geofences
  2. Elder suspected to be exhibiting lapping or pacing behaviours