

## Objective

- I. To design an android application that lets users to send notifications in case of emergency situation using panic button and ICE method for first responders.
- II. To develop an android application that lets users to send notifications in case of emergency situation using panic button and ICE method for first responders.
- III. To evaluate functionality of In Case of Emergency (ICE) Android Application using panic button and ICE method.

# Problem Statement

Panic or emergency situations are unavoidable and usually unexpected (Shinde, Taware, Thorat, & Waghmare, 2012).

People were unable to communicate through injury or disease and hard to find out who they are (Brotchie, 2005).

Family and close friends could not track victim's location



# Scope

## User scope

- Used by anyone especially when the user is in emergency or threatening situation.
- First responders

## Functionality scope

- Emergency Panic Button
- Emergency Contacts
- Store Medical Information
- Search local council's location and navigate to the particular place
- Emergency Services

## Geographical Scope

- Can be used anywhere where there is mobile connectivity
- GPS service and internet connection is enabled.
- Has credit in order to send the alert message.

# Significance

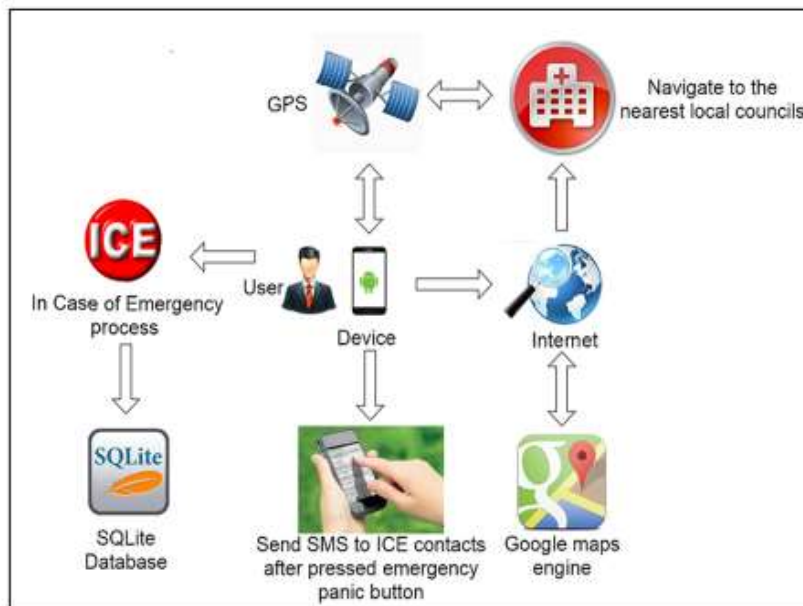
Send emergency message and call immediately by simply click panic button.

Store information needed by rescuers and doctors. Containing all the necessary data useful to rescuers and doctors in an emergency

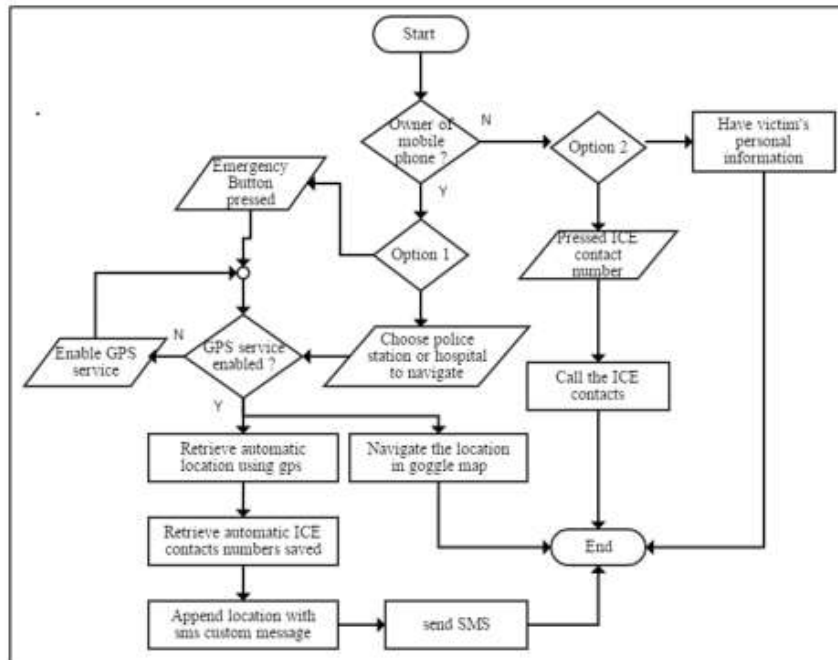
Simply trace out user's location. By using GPS, the application enables to send user's location to family and close friend automatically on request upon SMS

Has lock screen widget which allow trigger panic button even it is being locked and yet still allow first responders and rescues access to the information wish to be known

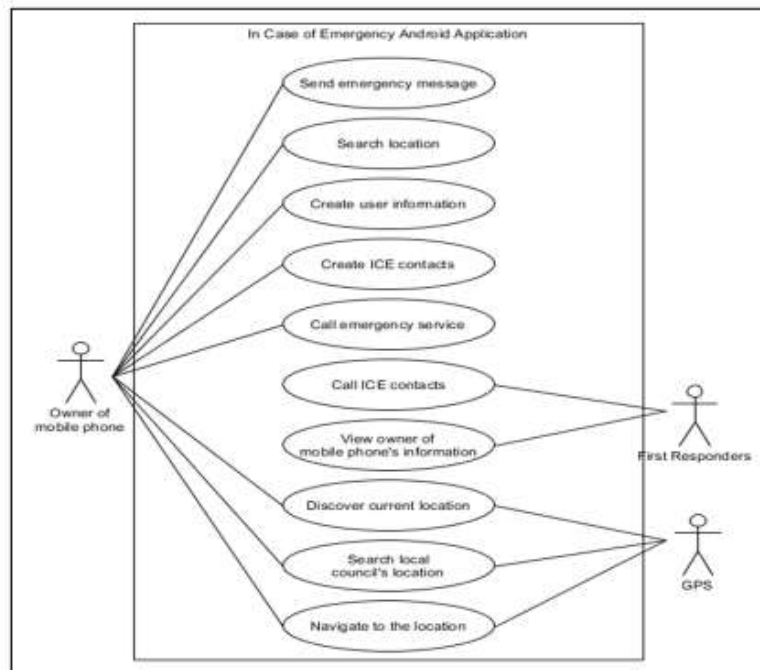
# System Architecture Diagram



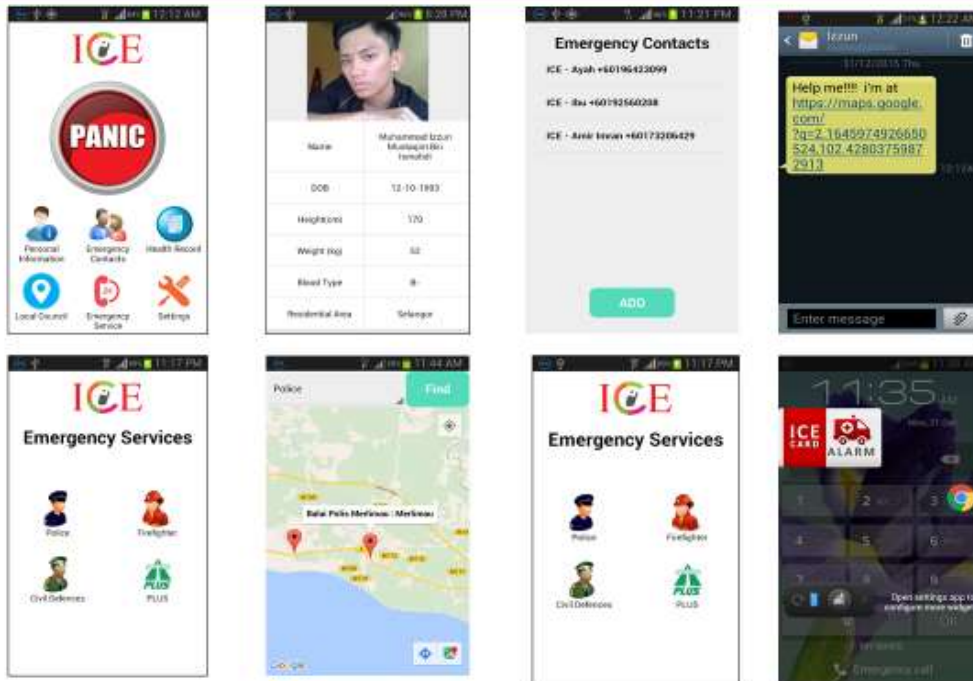
# Flowchart Diagram



# Use Case Diagram



# Development



# Conclusion and Recommendations

When user pressed panic button, there are a timer before the messages are sent. The user has time to cancel the panic button before it sent to the emergency contacts.

Allow application to track user's location and fetch user's location at about every 5 to 15 minutes and send to each emergency contacts.

Track user's location periodically and store it permanently at database and user can know his or her location history.

Setting up a password to stop the application when panic button is activate.