

**Department of  
Computer Applications,  
PES University  
Bengaluru.**



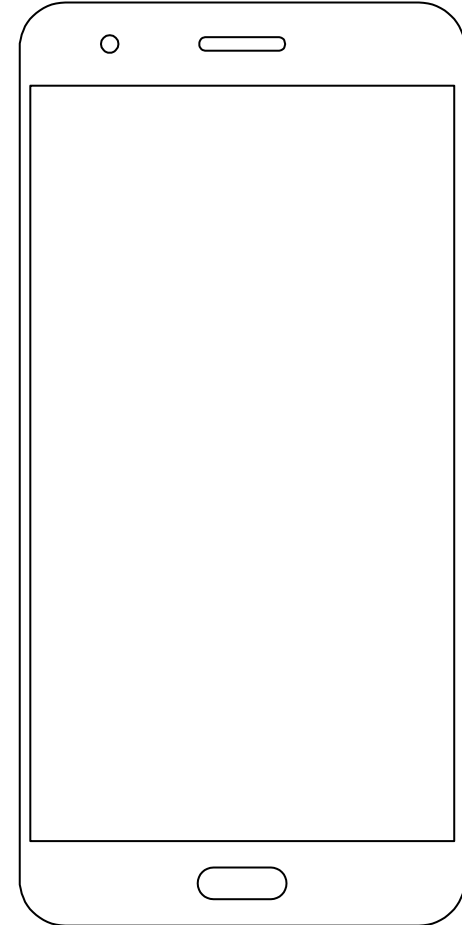
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## Abstract

- Message to guardians and call police and stay in continuous contact with family by using women safety app.



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2. Problem
3. Proposed solution
4. Purpose
5. Scope
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## Introduction

### Problem

- It is not safe for a person to travel alone.

### Proposed solution

- Utilising technology.



## Introduction continued..

### Purpose

- Respecting and promoting women's rights.

### Scope

- Focus on women safety.
- Protect from danger.
- GPS used to get user location.

.



## Literature survey

- Investigated several “Women safety” apps.
- The aim is to observe how these applications work.
- How they are different and how they can be improved.

# 1.Naari app:

*Naari*

How to use?

Add Relative

Add your loved  
one's contact details.



Trigger Button

After adding contact,  
test the trigger here.



When in emergency, press the  
button below.

**Click Here!**

This will send sms to your  
registered contacts with your  
current location.



## Literature survey continued..

### App Name

#### 1. Naari app

### Features

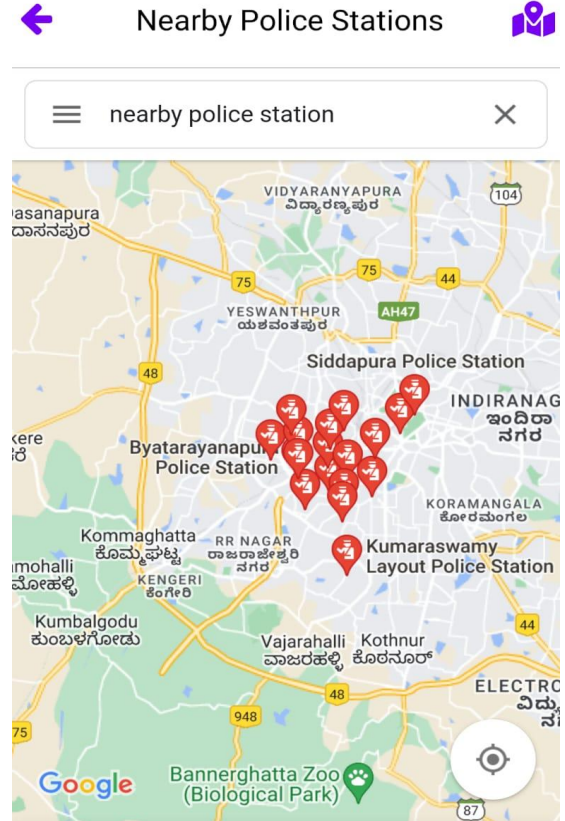
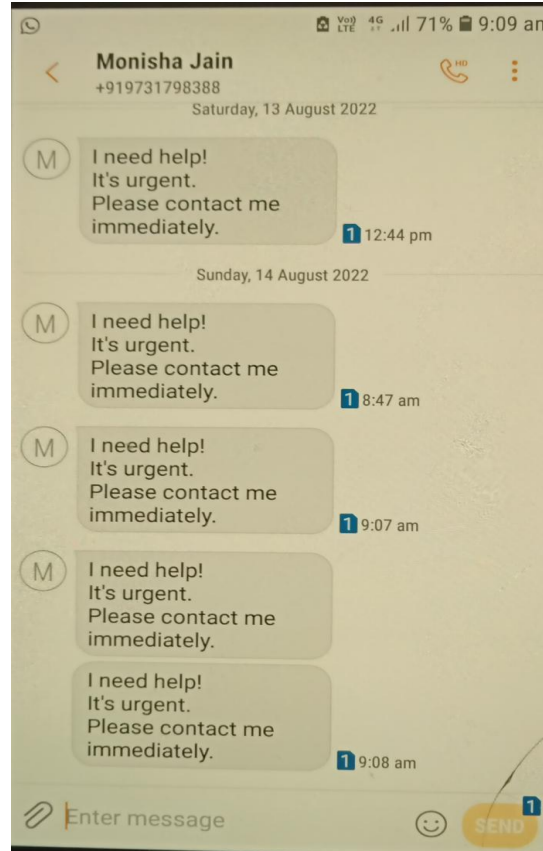
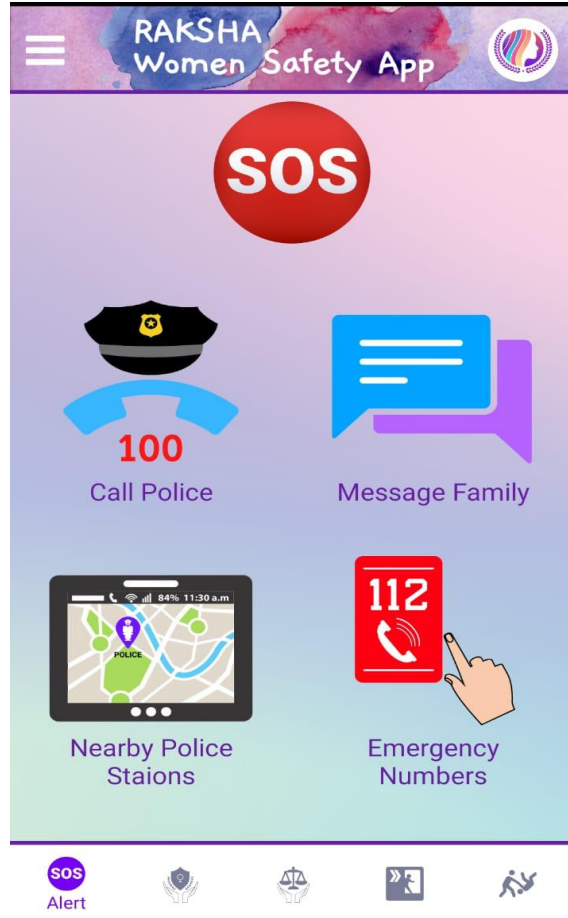
- Multiple contacts.
- Emergency button.
- Calls to police, hospital care, women helpline number

### Drawbacks

- Need to open the app.
- Emergency button was not working properly.



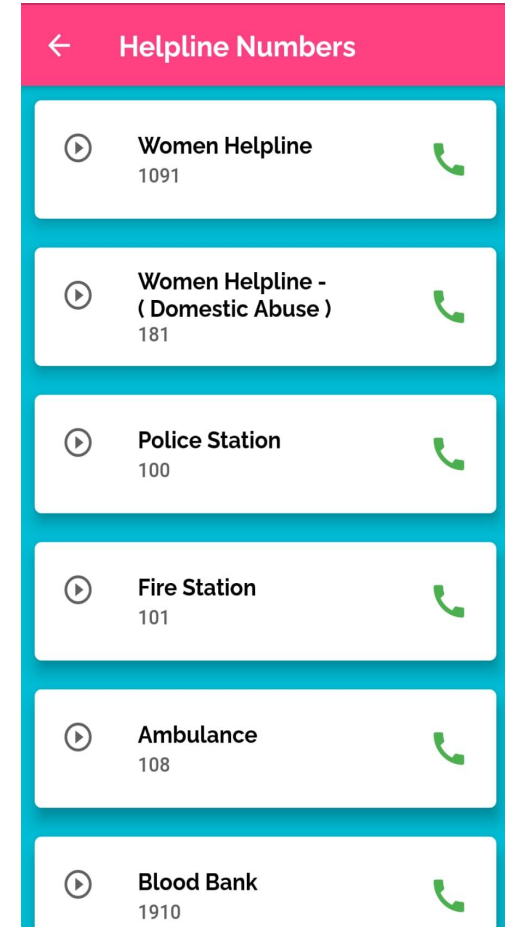
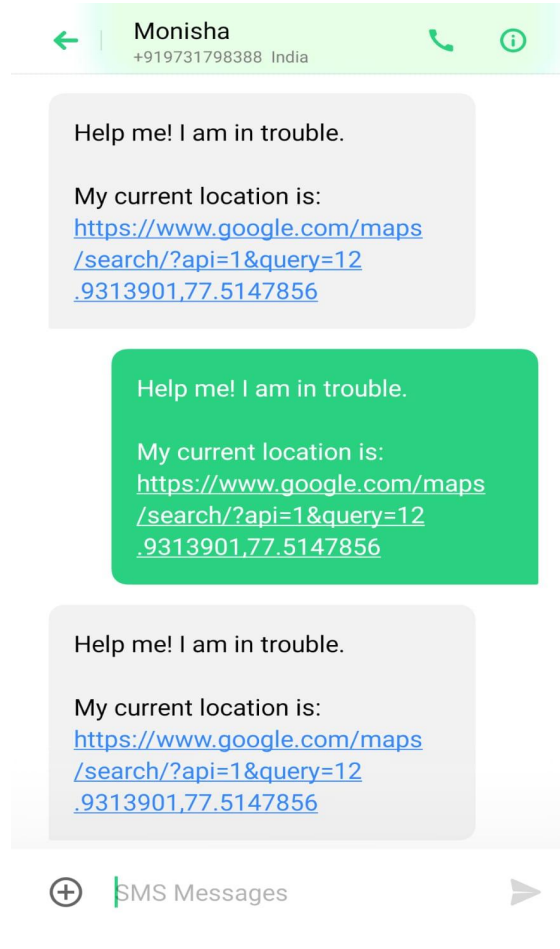
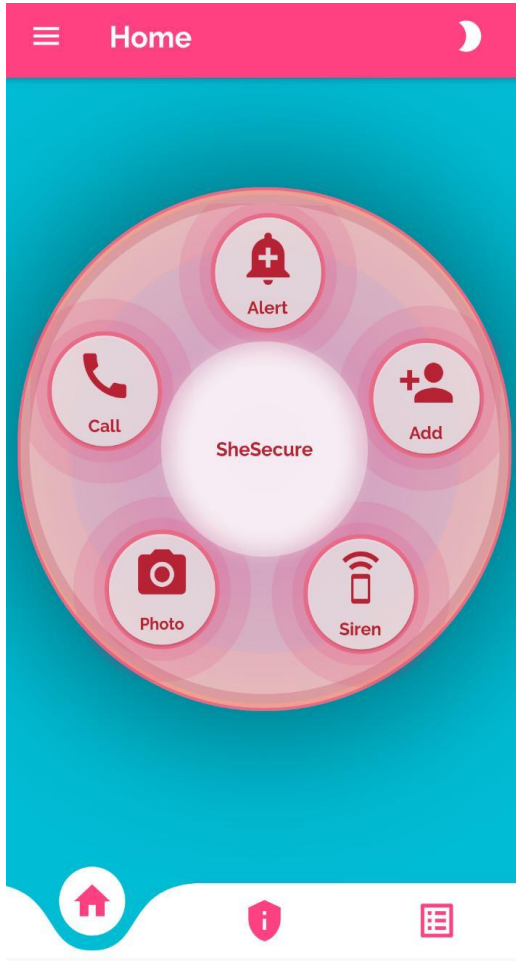
## 2. Raksha app:



## Literature survey continued..

App name	Features	Drawbacks
2. Raksha app:	<ul style="list-style-type: none"><li>• SOS button.</li><li>• Calls to police number.</li><li>• Messages to family number.</li><li>• Emergency numbers.</li></ul>	<ul style="list-style-type: none"><li>• Need to open the app.</li><li>• Only the textual message to the guardians with no current location information.</li></ul>

### 3.SheSecure app:



## Literature survey continued..

### App Name

### Features

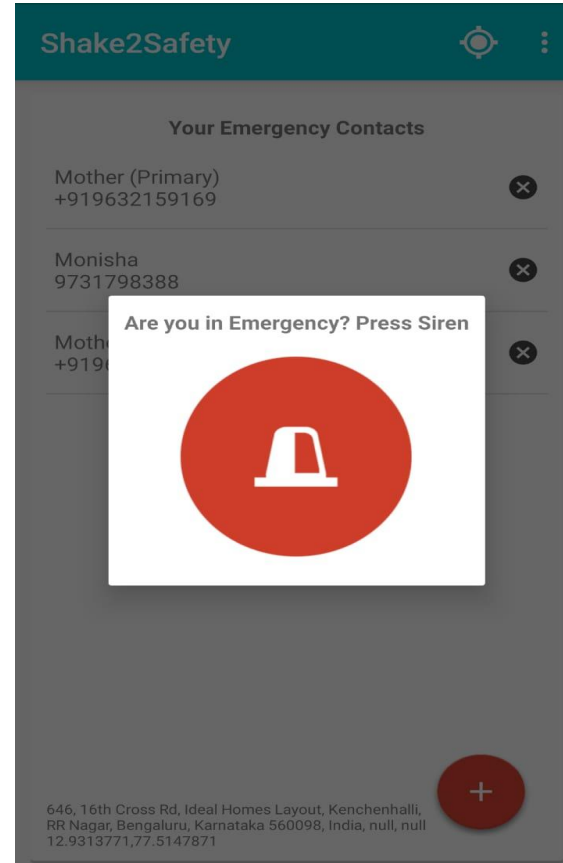
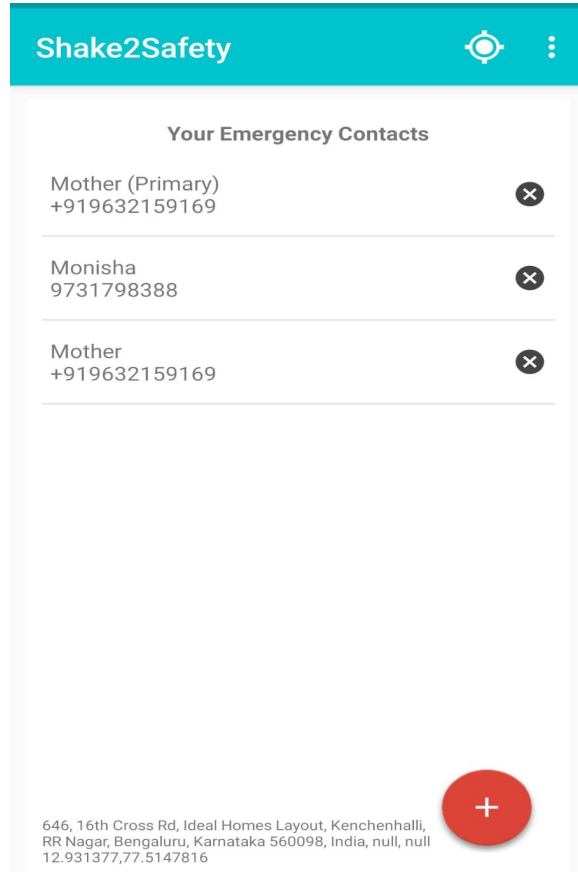
### Drawbacks

#### 3. SheSecure app:

- Plays siren sound.
- Calls to emergency number.
- Multiple guardian numbers.

- Need to open the app.
- No facility of calling nearby police station.
- No multiple language support.

## 4.Shake2Safety app:



## Literature survey continued..

### App Name

### Features

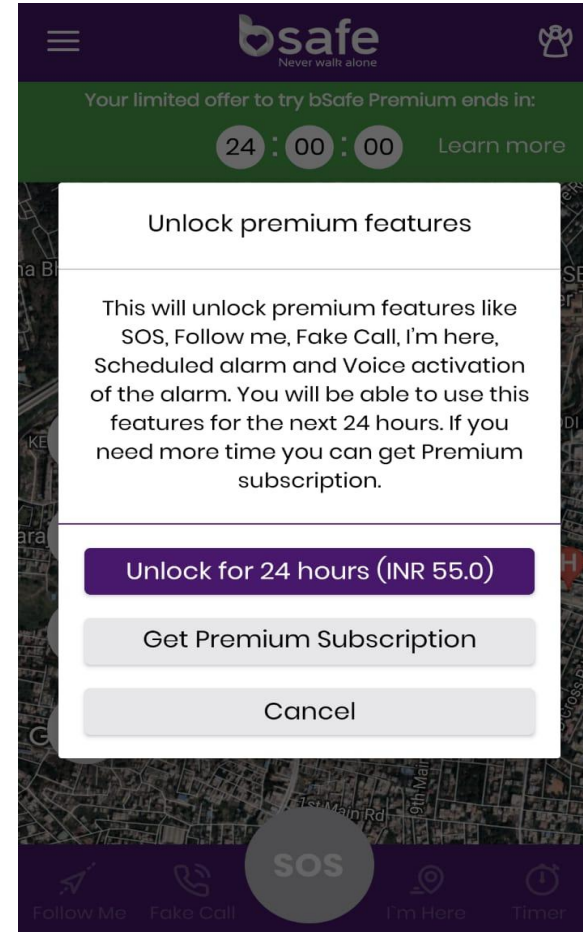
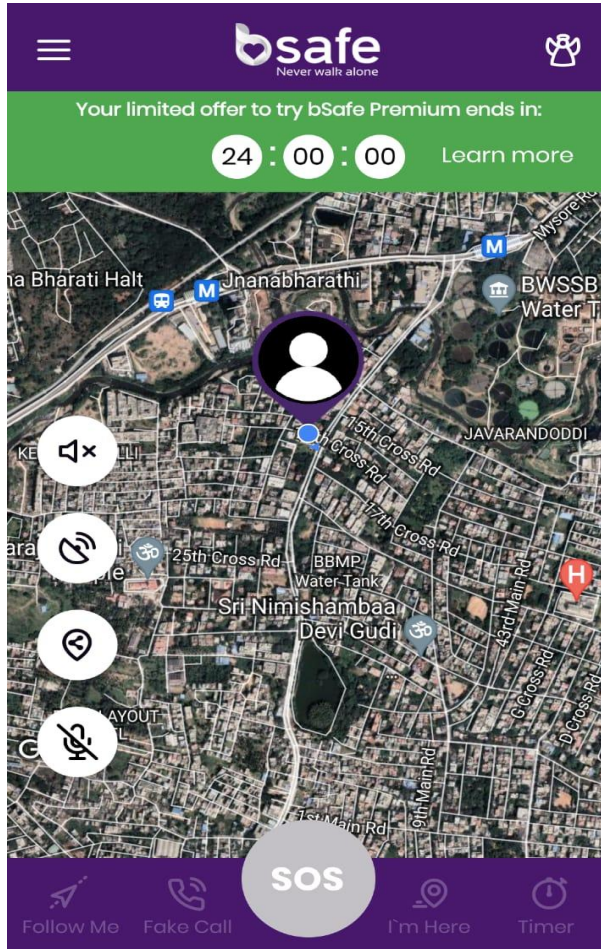
### Drawbacks

#### 4. Shake2Safety app:

- Emergency contact numbers.
- Siren facility.

- Shaking of the phone facility was not working properly(Tried in 2 phones).
- Emergency message facility is not there.
- Unable to forward call.

## 5. safe app:





## Literature survey continued..

### App Name

5. safe app:

### Features

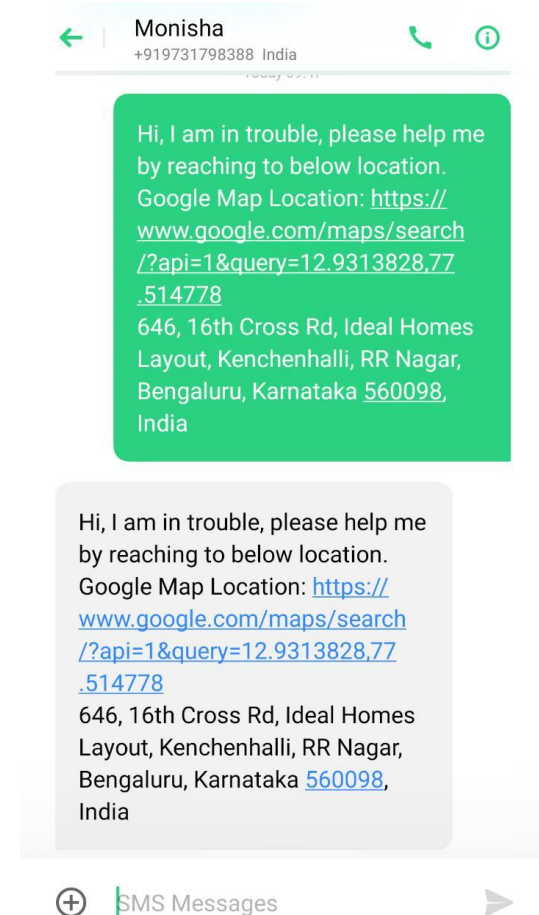
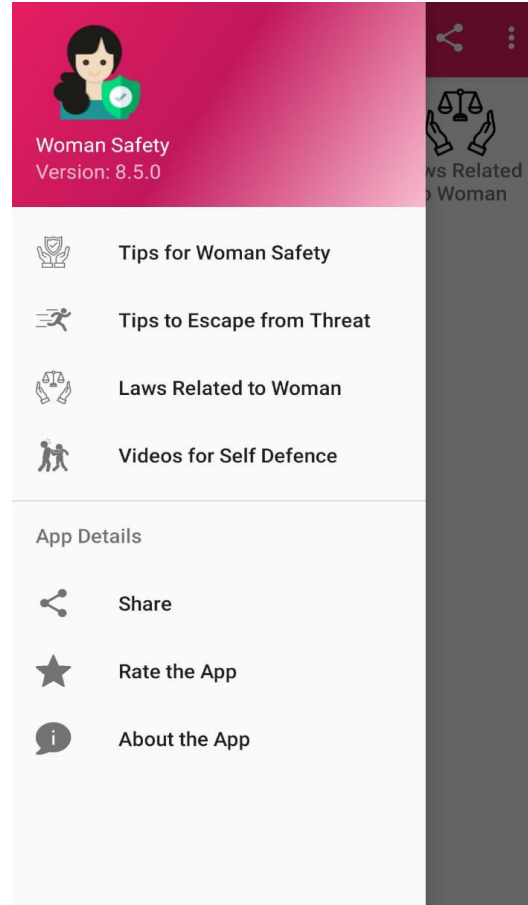
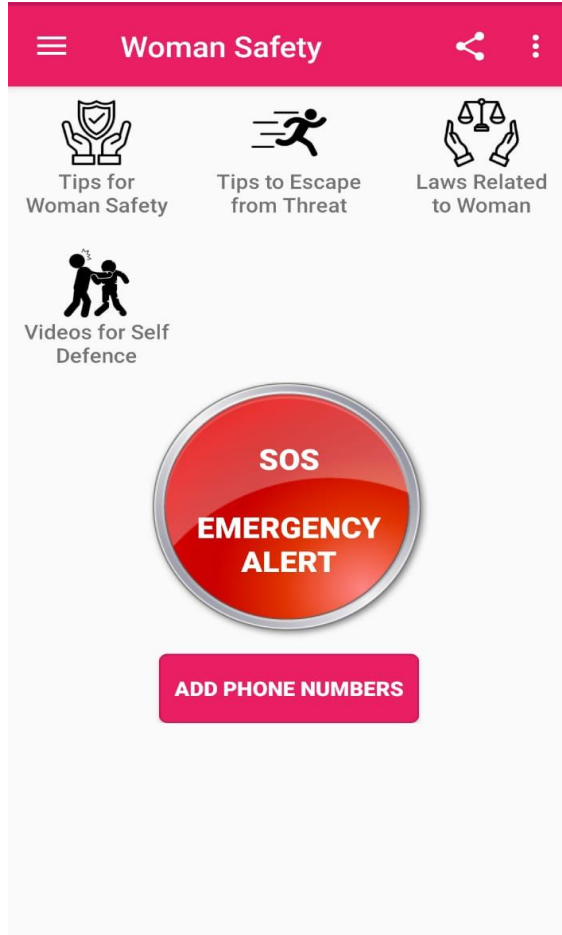
- Calling facility only for premium users.

### Drawbacks

- We need to get premium account.
- Not user friendly.



## 6. Woman Safety app:



## Literature survey continued..

App Name	Features	Drawbacks
6. Woman Safety app:	<ul style="list-style-type: none"><li>• SOS button for sending message.</li><li>• Tips &amp; videos for self defence.</li><li>• Good UI</li></ul>	<ul style="list-style-type: none"><li>• Need to open the app.</li><li>• No multiple language support.</li></ul>

## 7. MySafetyPin app:

≡  MonishaJain  
Safeti-Starter

How can I make my city safer?



Make Bangalore Urban Safer



Quick audit

10 Point



Do safety audit

10 Point



Share app

1 Point

Your current location



RR Nagar

7.2/10 (Safety score)

156Comments

[View Map](#)

< Safety Audit



WGJ7+JV7, Ideal Homes Layout,  
Kenchenhalli, RR Nagar, Bengaluru, Karnataka  
560098, India



Lighting

Availability of enough light to see all around you.



None



Little



Enough



Bright

Walkpath

Either a pavement or road with space to walk.



None



Poor



Fair



Good

Openness

Ability to see and move in all directions.



Not Open



Partially  
open



Mostly Open



Completely  
Open

## Literature survey continued..

App Name	Features	Drawbacks
7. MySafetyPin app:	<ul style="list-style-type: none"><li>● Safety audit, safety route,</li></ul>	<ul style="list-style-type: none"><li>● Need to open the app.</li><li>● No multiple language support.</li><li>● Unable to call guardians.</li></ul>

# Comparative analysis:



Features	Existing apps	bSafe app
1. Multiple contacts	• ✓	• ✓
2. Emergency button for message.	• ✓	• ✗
3. Calling facility(police)	• ✓	• ✓
4. Need to open the app for using.	• ✓	• ✗

## Comparative analysis:

### Features

### In Existing apps

### In bSafe app

#### 5. SOS button



#### 6. Message with GPS location.

- Only in few apps.



#### 7. Calls to nearby police according to the current location.

- Only in Raksha app.



#### 8. Tips for self defence.

- Only in few apps.



# Comparative analysis:

## Features

## In Existing apps

## In bSafe app

9. Siren sound.




10. Photo taking facility in the app.



11. Premium account for usage.

- Only in safe app.
- Need to open the app.

- 
- Yes. Mandatory.

12. Mandatory switch on the location.



- Yes(4 languages  
Eng, Hin, Telugu, Kan)

13. Multiple language support.



## How is my app different from existing applications

- ◉ No login details.
- ◉ Shows notification.
- ◉ Multiple guardians.
- ◉ Mandatory location permission.
- ◉ Availability across India.
- ◉ No siren/SOS button.
- ◉ Calls police according to location.
- ◉ Multiple languages support.
- ◉ Self defence Tips.
- ◉ No need to open the app to use.





## Operational feasibility

- Works even if device screen is **locked**.
- Works even if **other apps** are being used.
- App won't ask any user-specific details.
- **Long press volume up** button for 10 seconds to call upon distress.
- No changes happen for other existing applications.
- Privacy-first app



## Domain Survey

- After 2012, Android went from 10% above within 4 years & shares 95.84% in 2021.
- Android is a mobile operating system based on a modified version of the Linux kernel.
- Open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.



## Technology survey

### Android is

- Open source OS.
- Easy to learn.
- Based on java.
- Can also be done using Kotlin.



## Tools and technologies

### Hardware requirements

- Android phone (min of 2GB RAM )
- Android application system.

### Software requirements

- Windows/Linux/Mac OS.  
256gb HD, 8gb ram, 2.40ghz processor
- Android Studio
- Java edition 8 or later
- Star UML v5.0.2



## Requirement analysis

### Users

Any user who can install the android app.

### Functional requirements

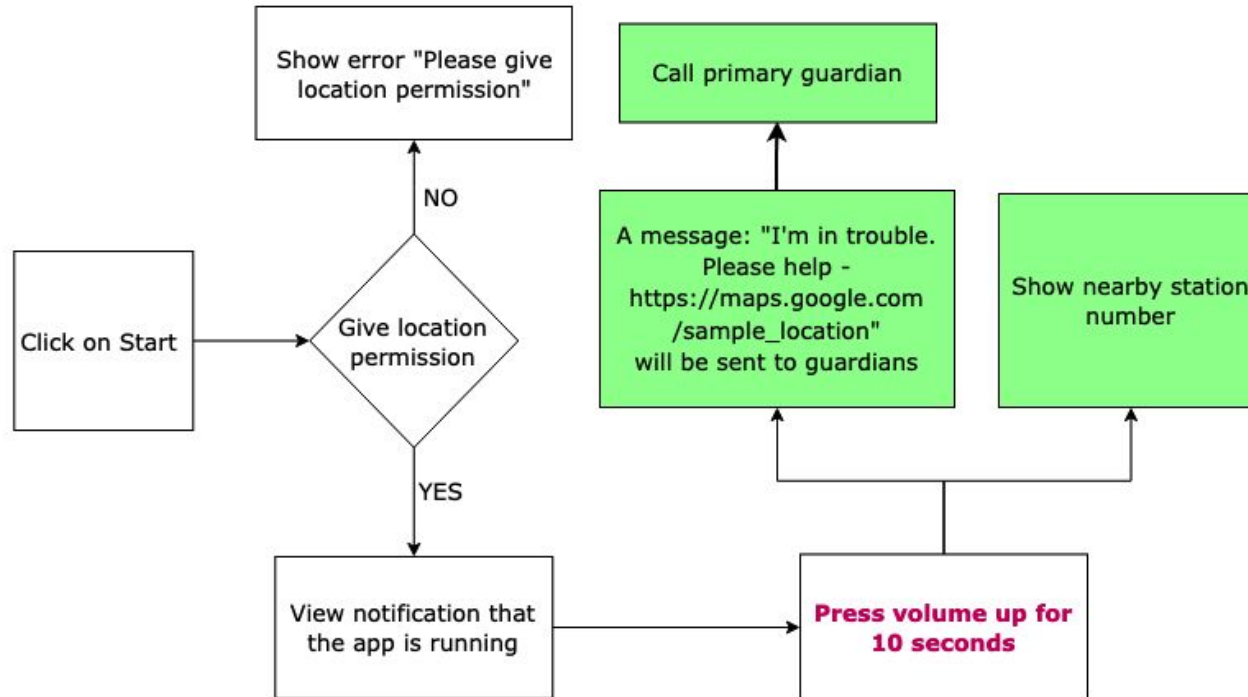
- GPS enabled device.
- Latitude, longitude from Google Places API.
- Language APK

### Non-functional requirements

- Maintainability.
- Scalability.
- Easy to use.



# 1. Design



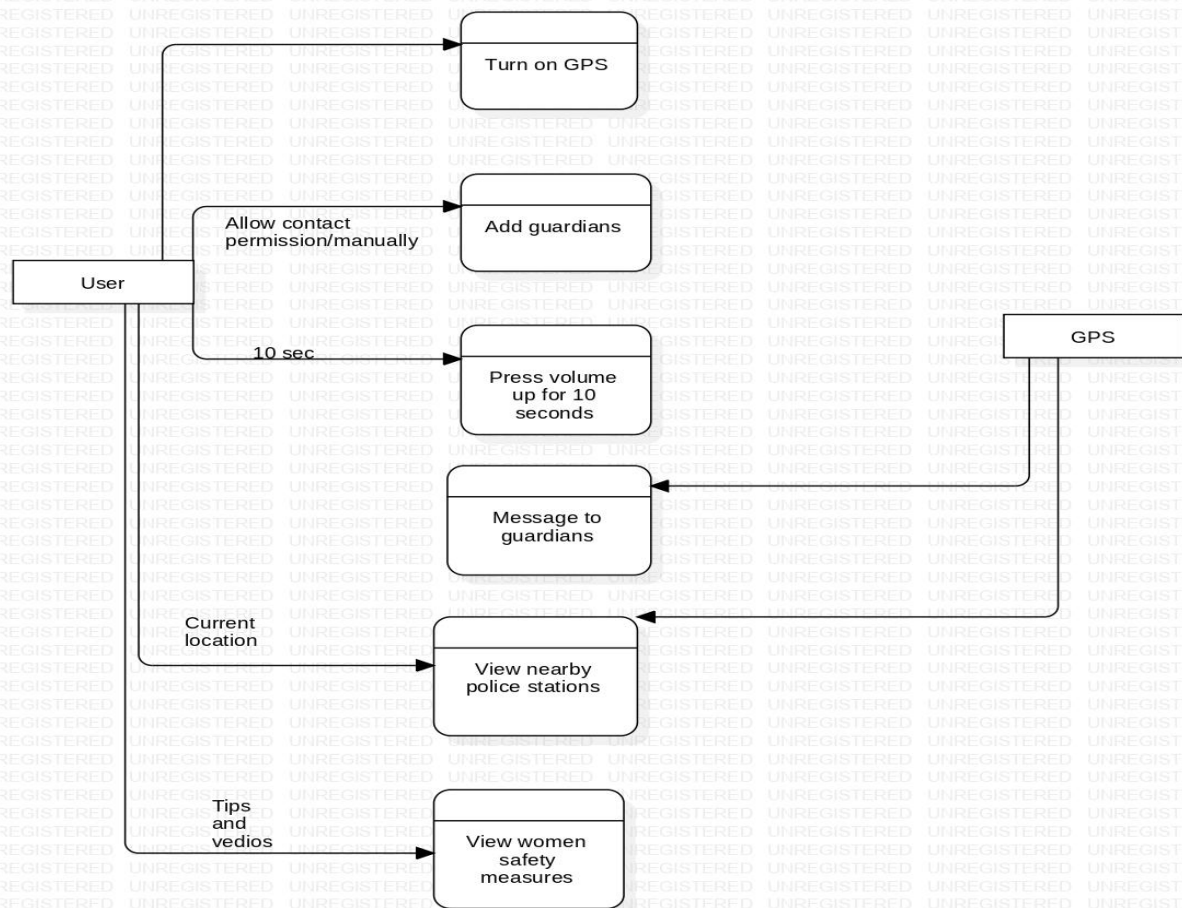


## 2. DFD0



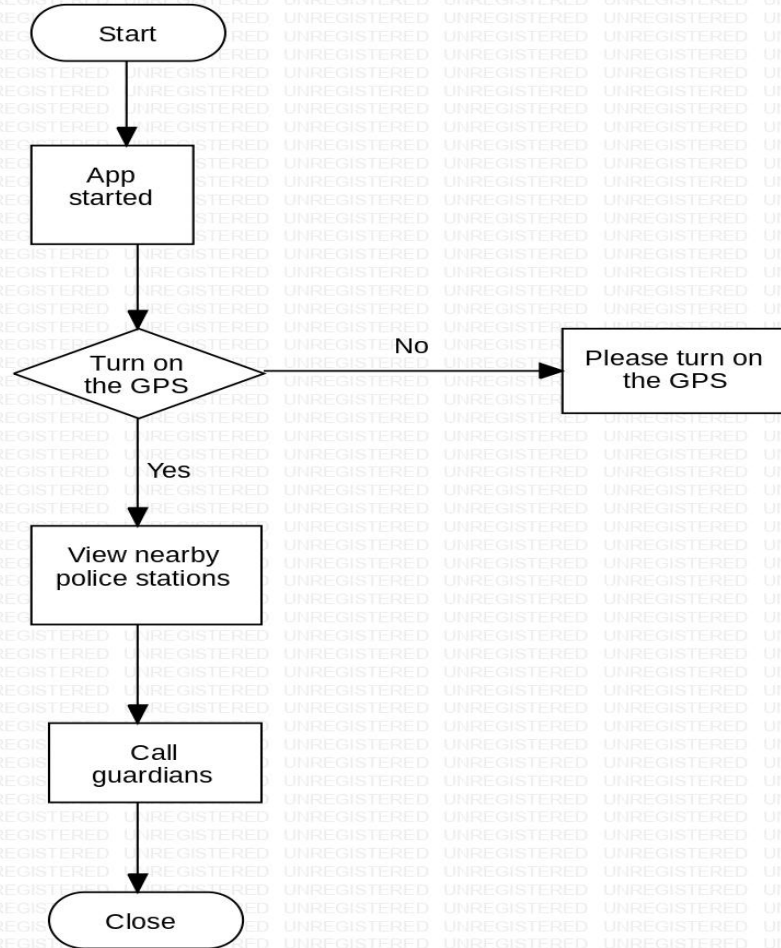
\*Guardian contact details should be entered at the launch time

3. DFD1

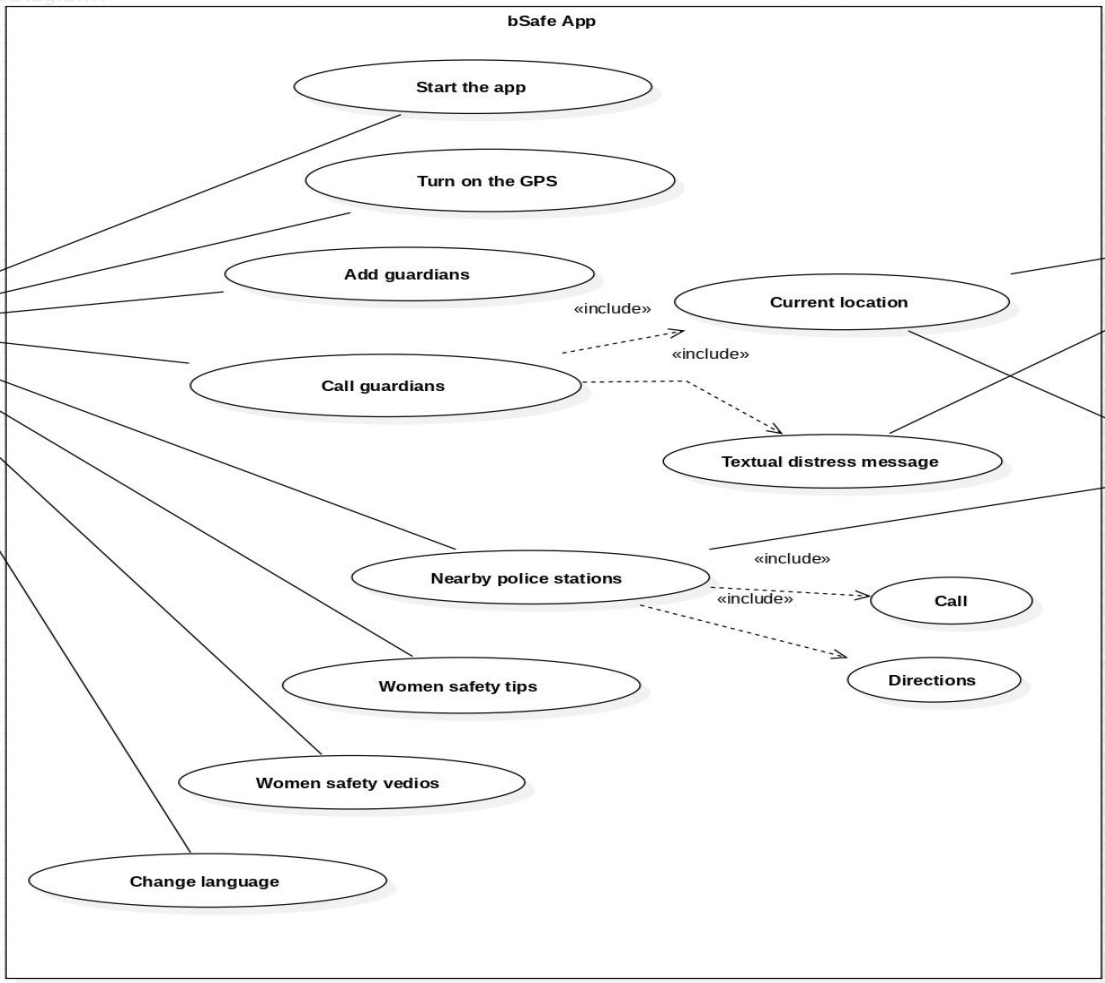




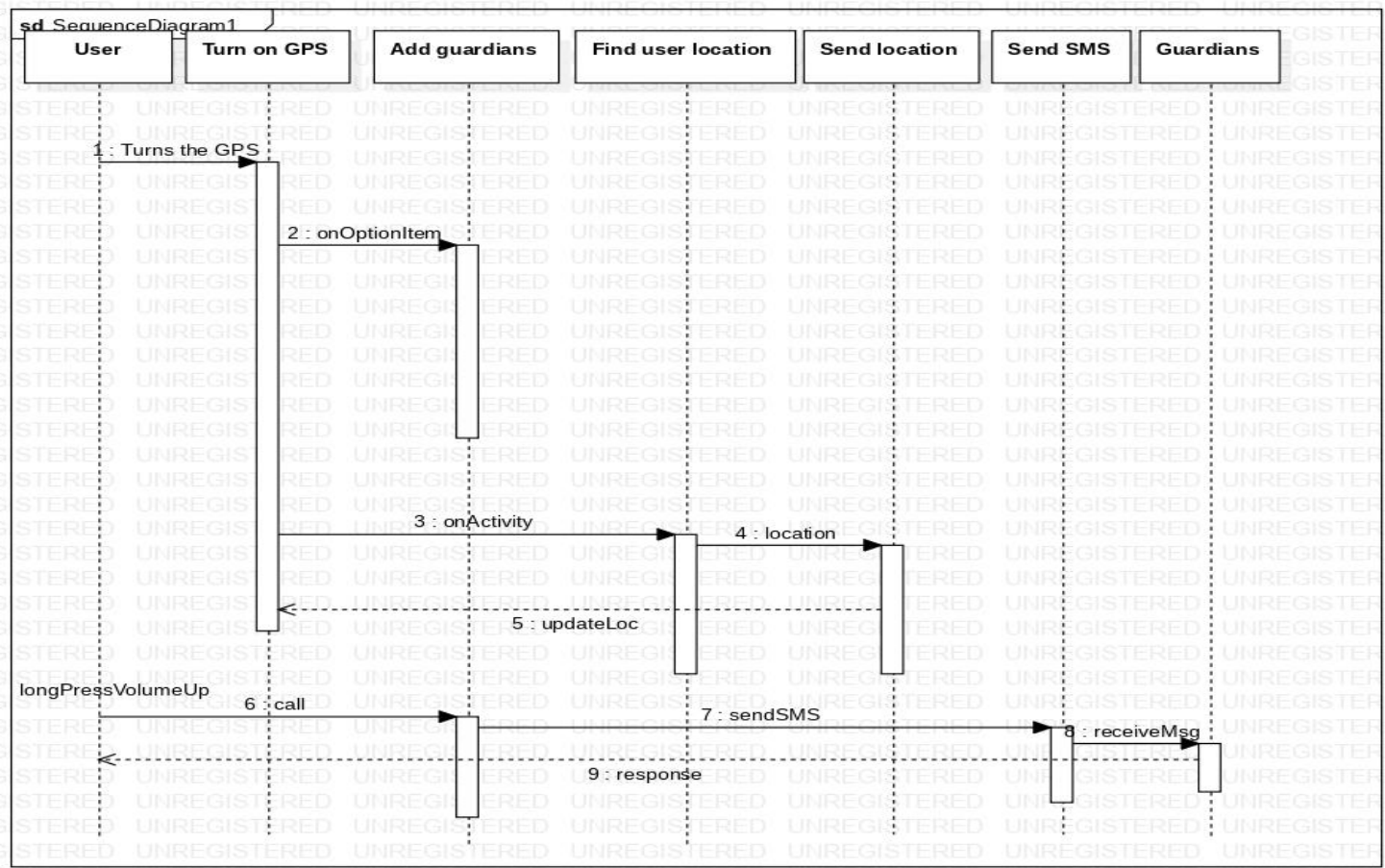
## 4. Process flow diagram



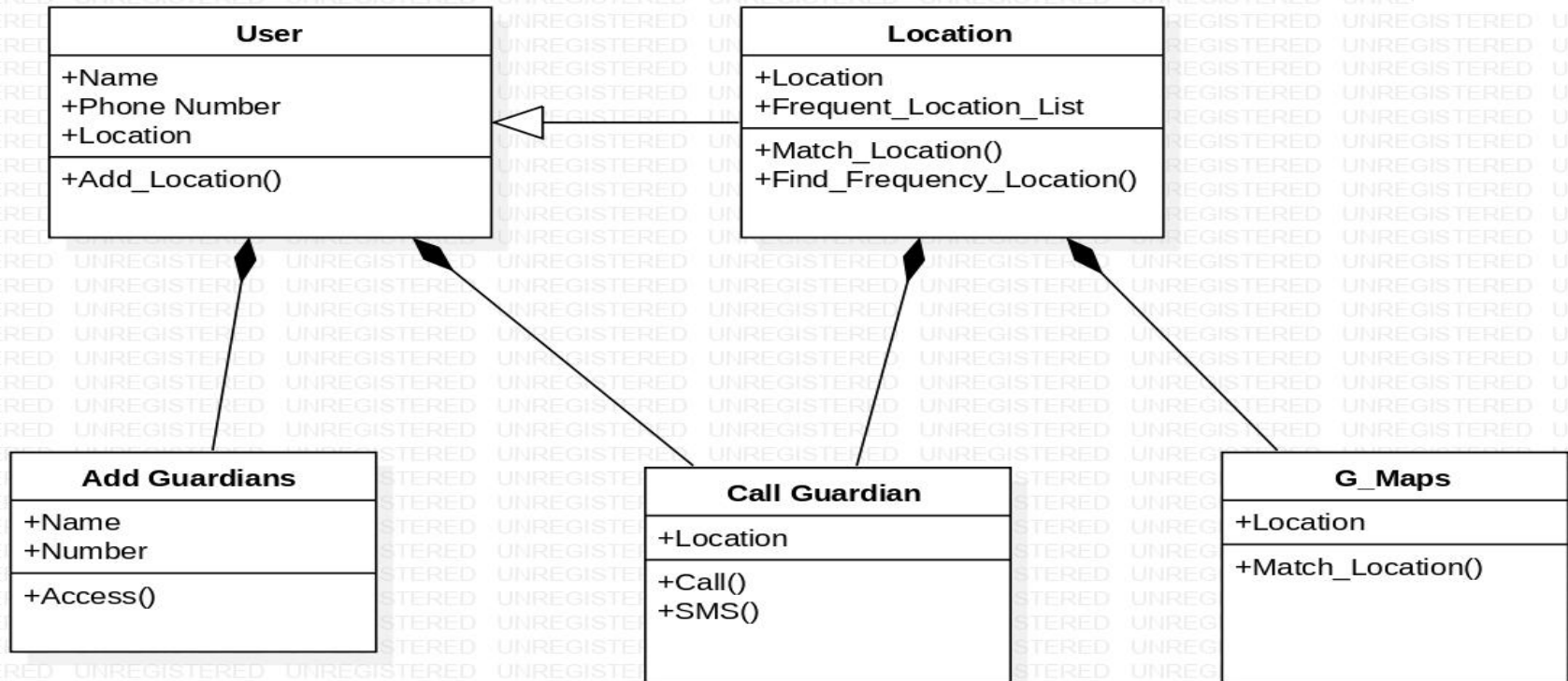
# 5.Use Case



## 6. Sequence Diagram

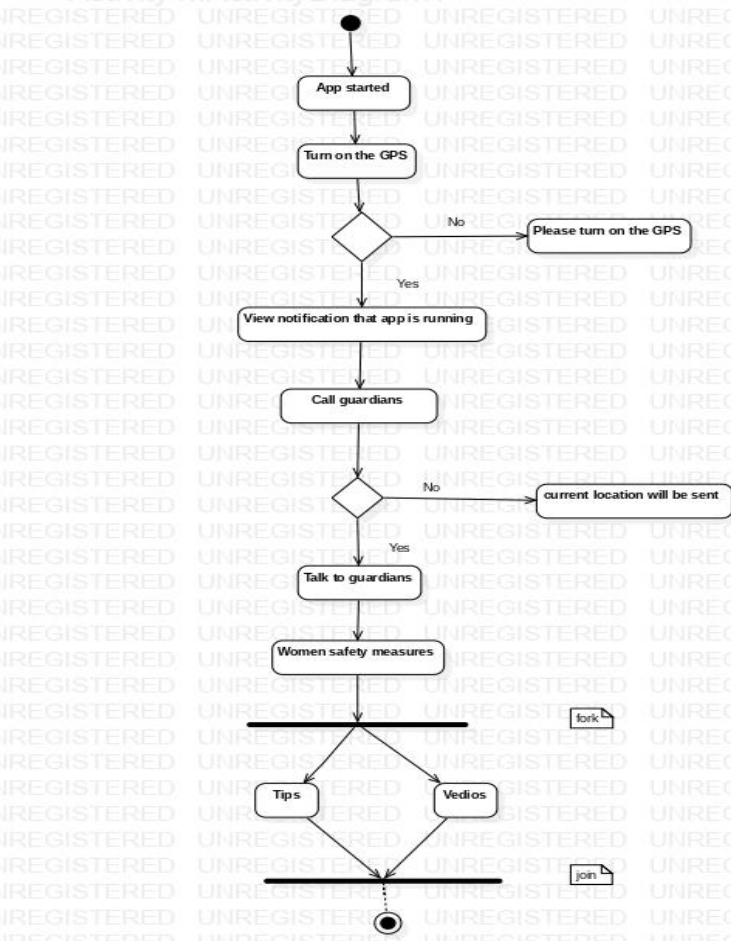


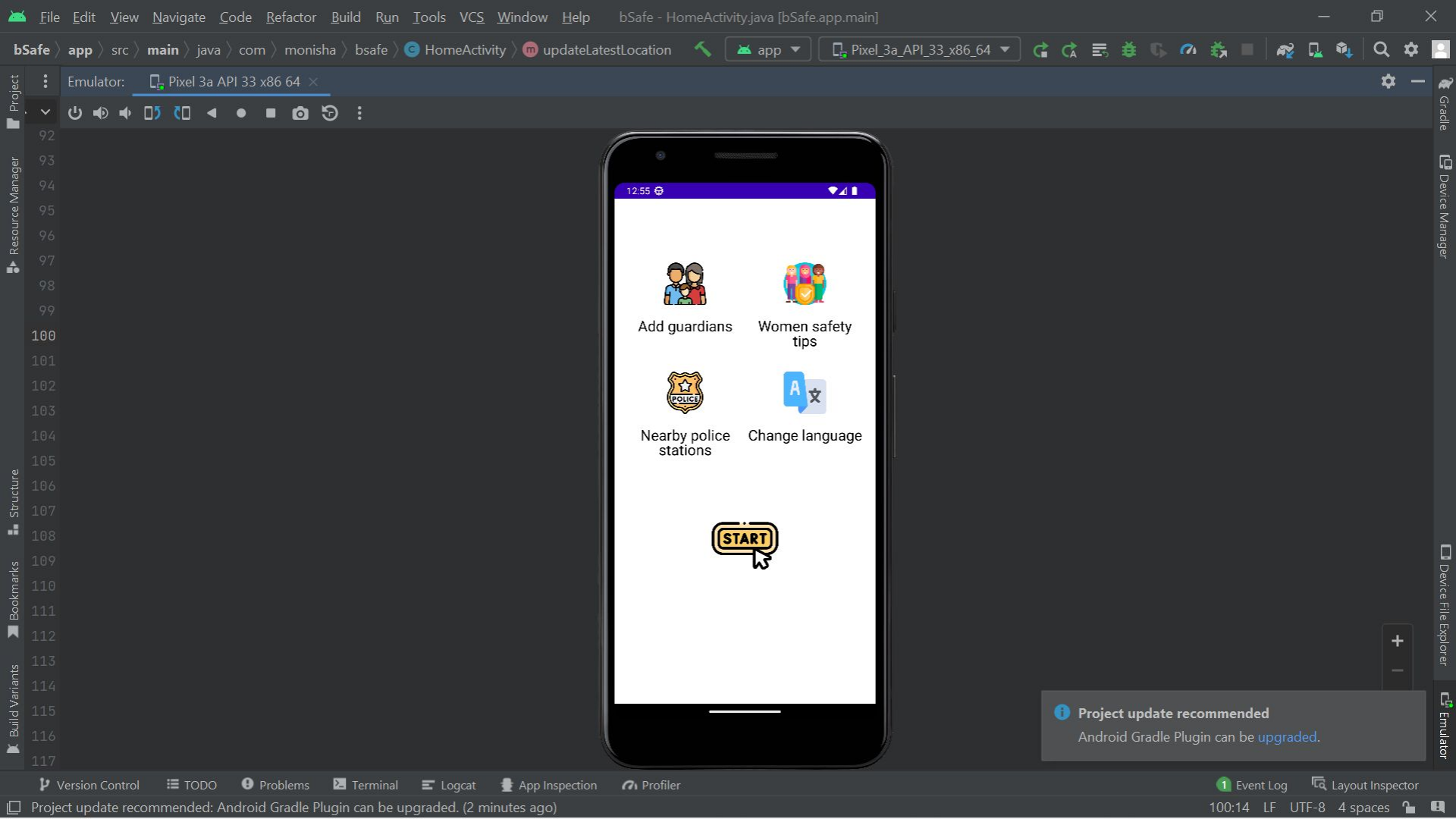
## 7. Class diagram

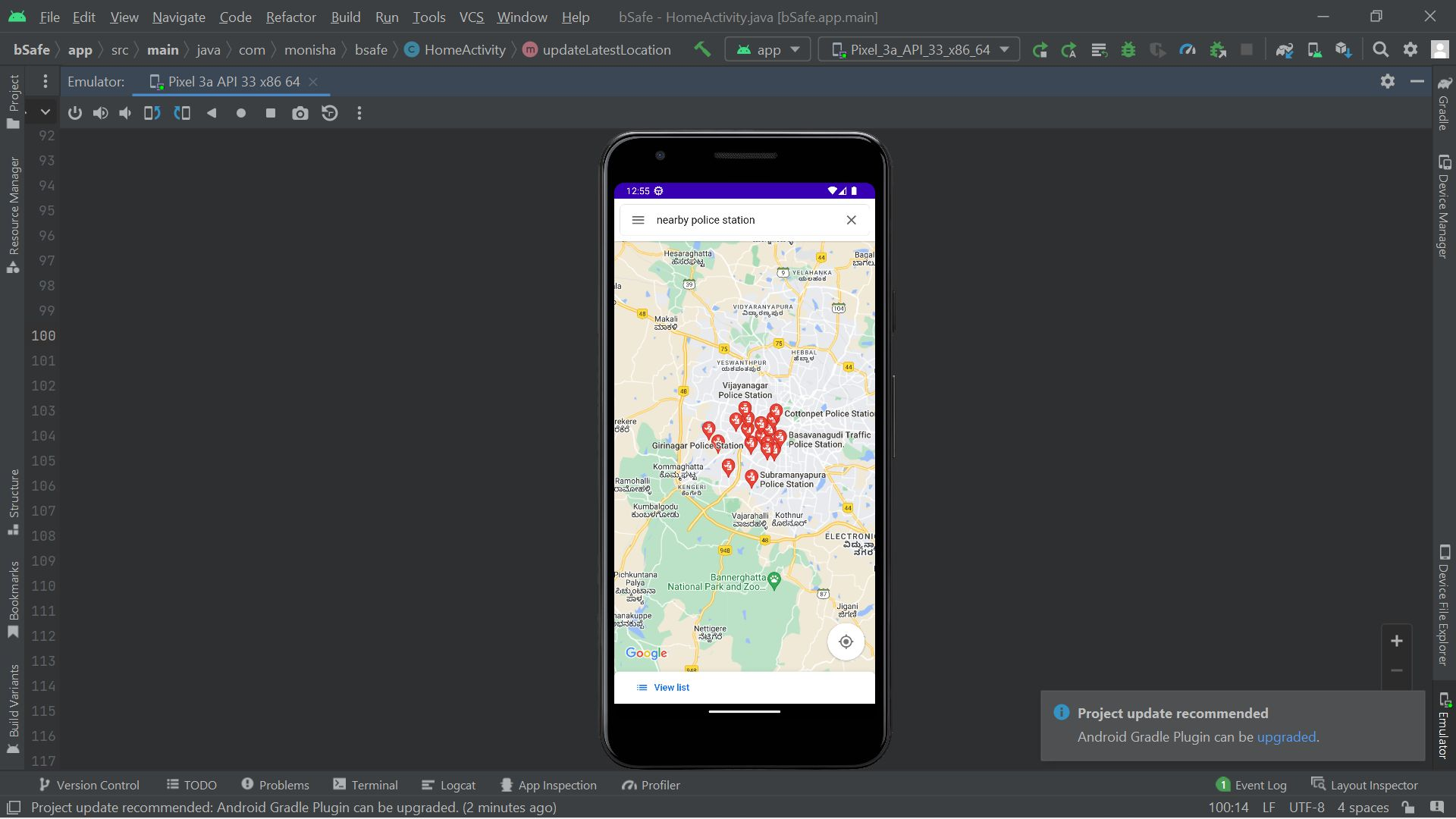


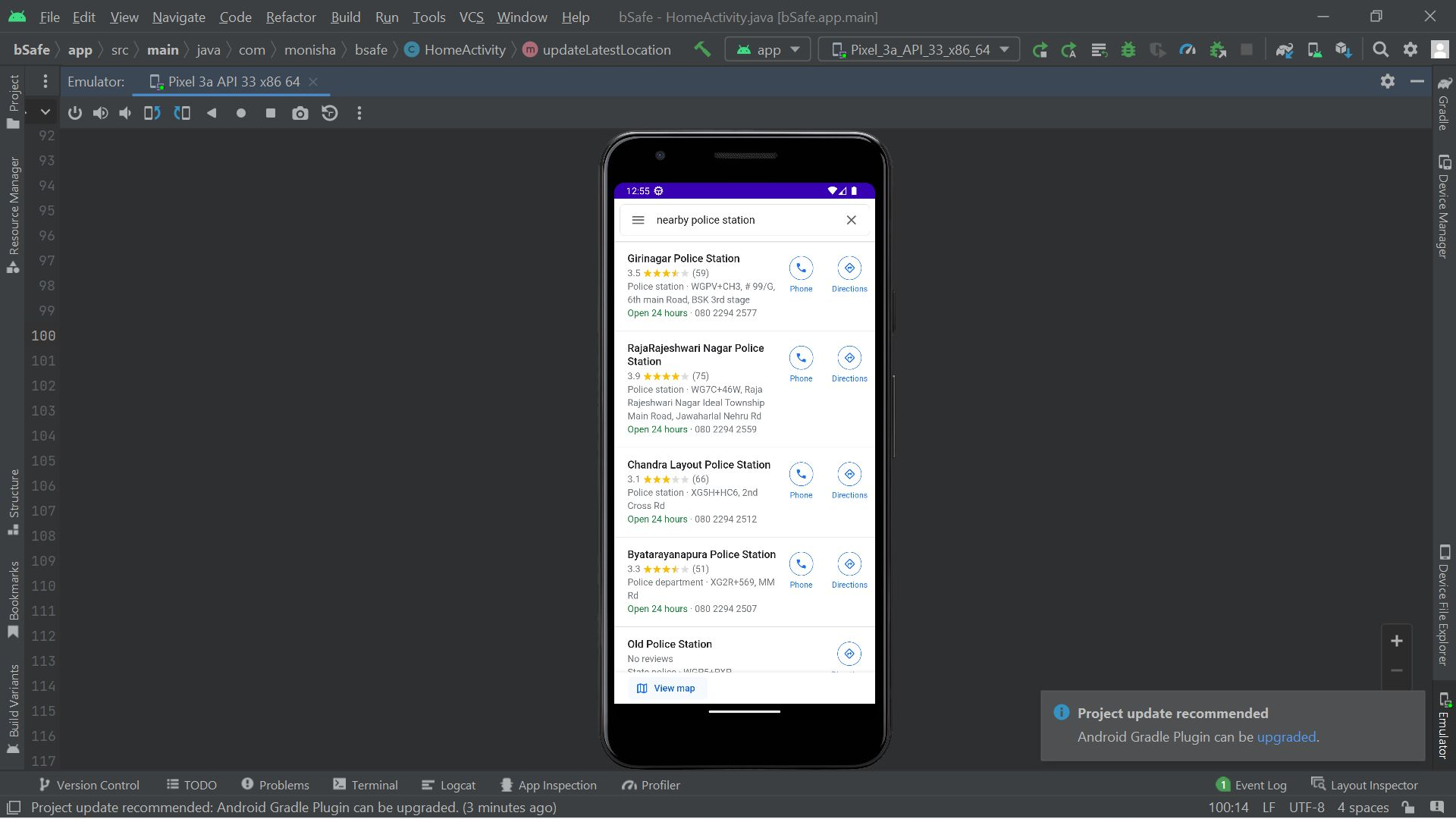


# 8. Activity Diagram

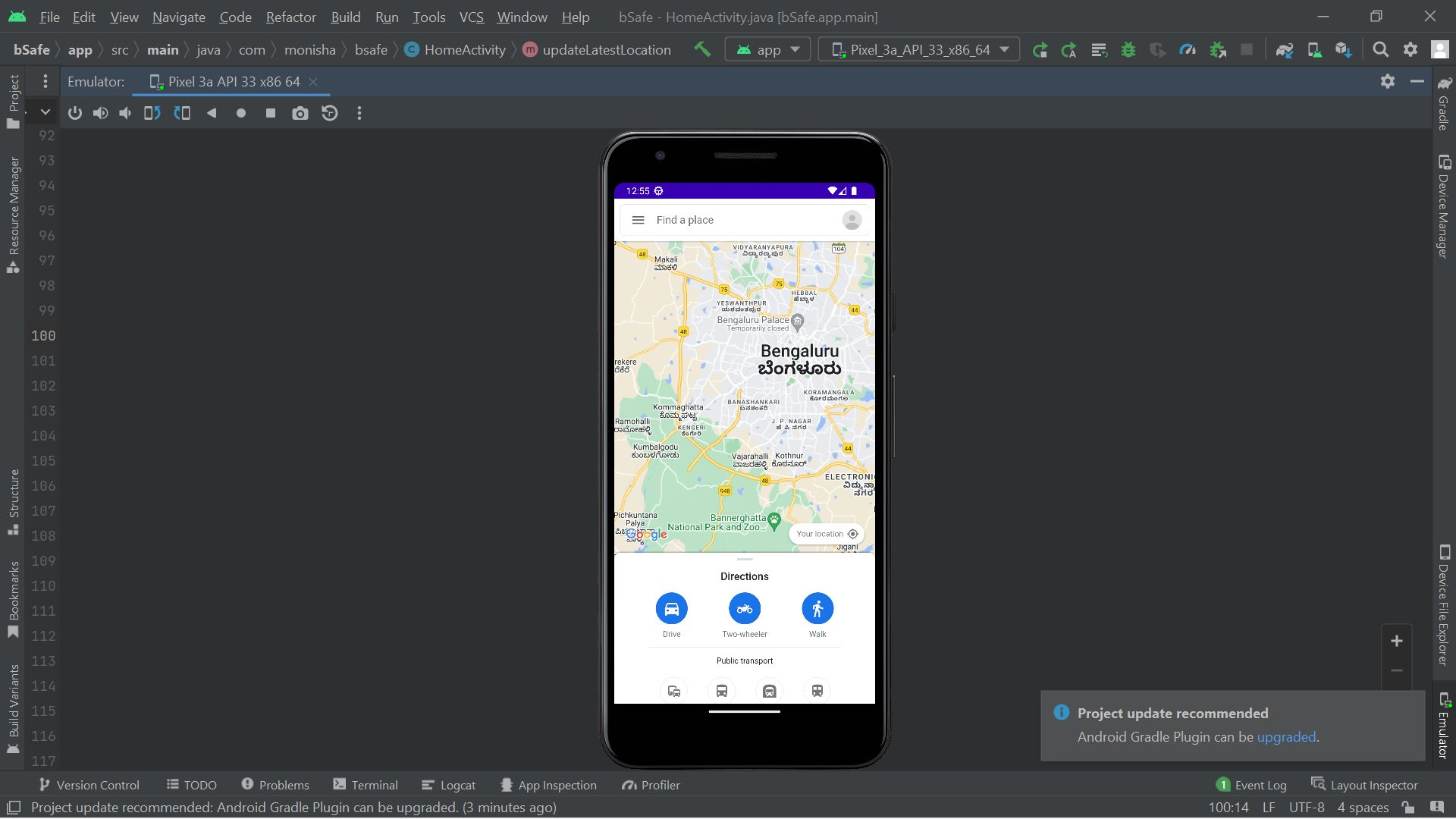


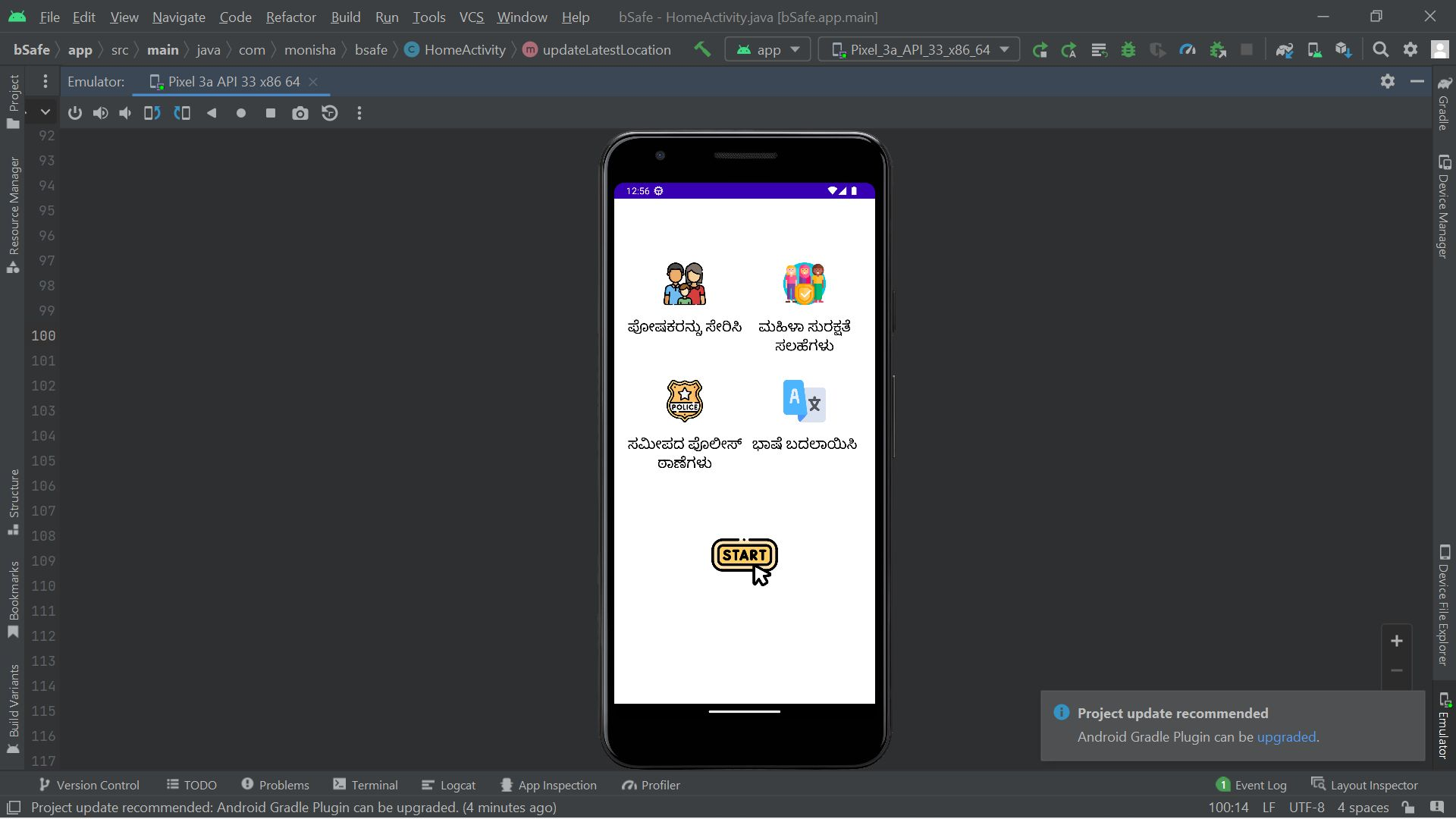


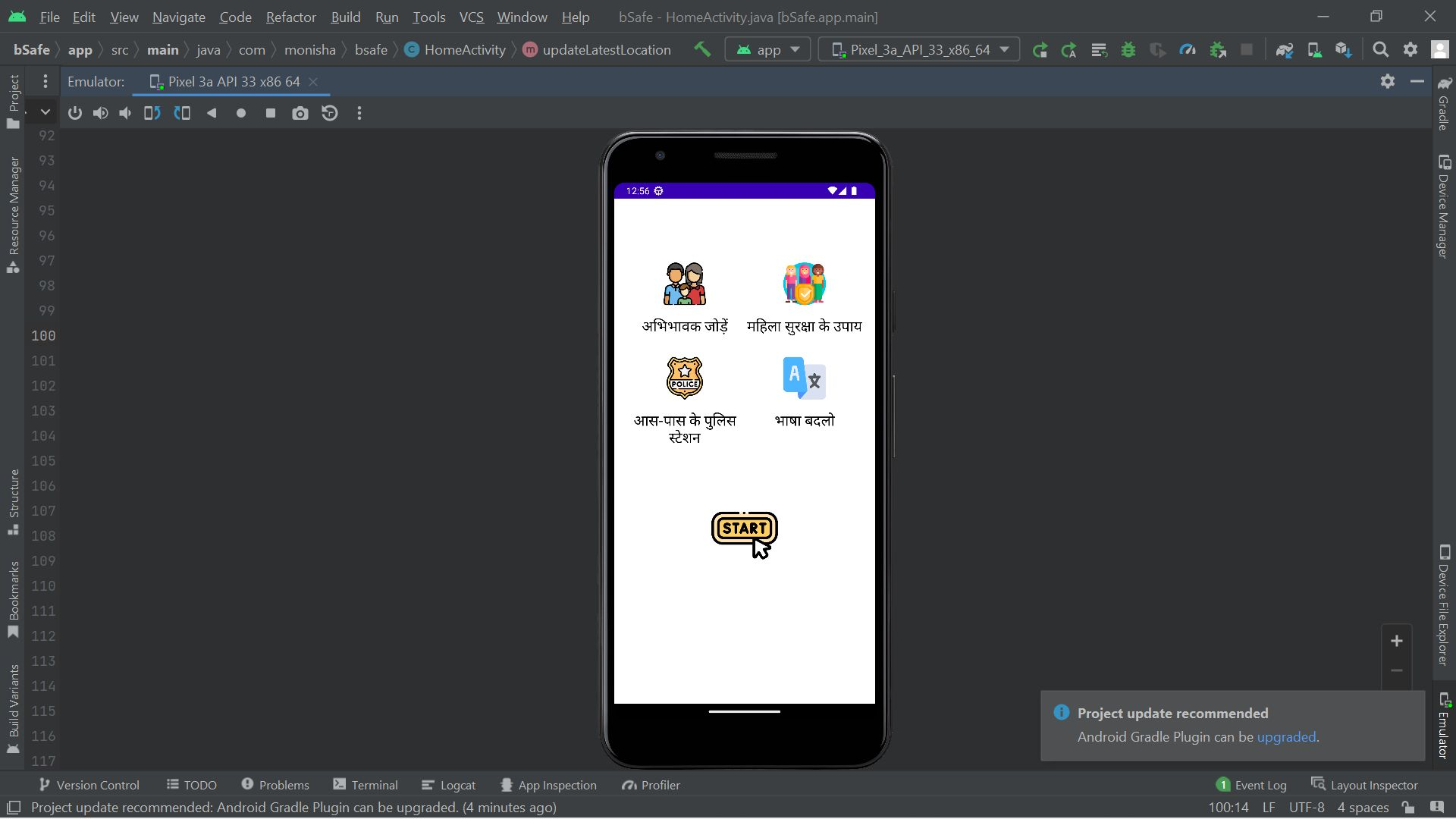


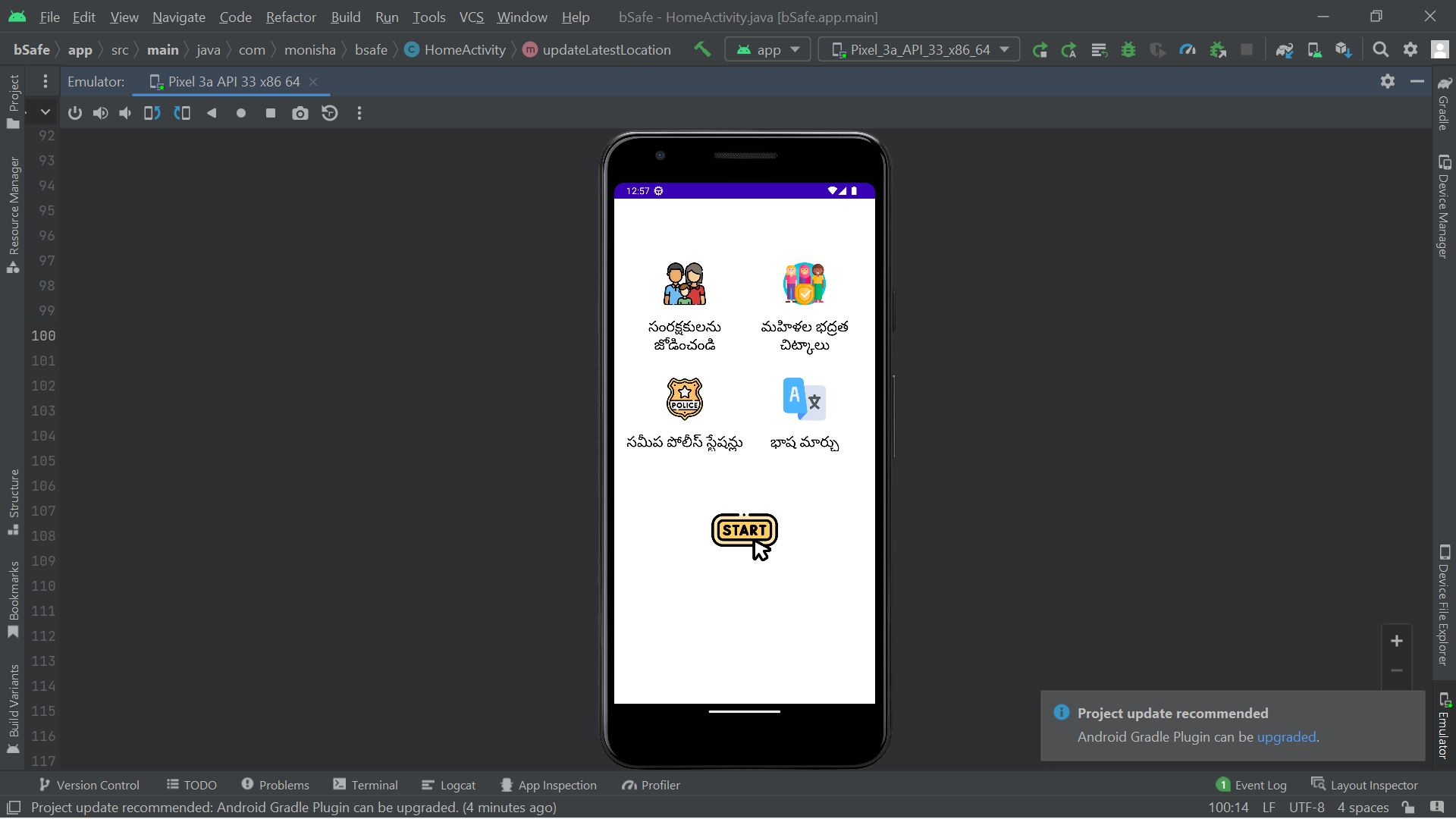














# Thanks!

*Any* **questions** ?

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