

Medussa

WOMEN SAFETY APPLICATION

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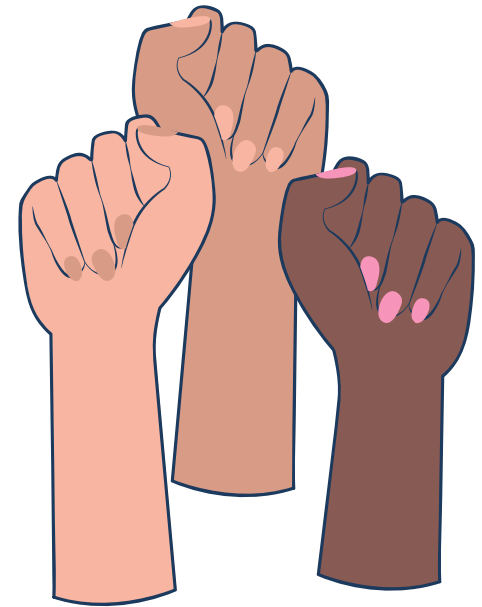
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# Introduction

“Women's safety apps, as the name suggests, are apps that help women feel safer. People have developed a number of women's safety apps based on their own or loved ones' experiences. Most apps assist users in notifying friends and family when they are in trouble. Other apps provide information about nearby medical facilities, navigate the safest route, track options, identify crime hotspot areas, and perform a variety of other functions.

The app's target market is large enough to attract millions of downloads. However, the motivation for developing women's security applications extends beyond monetary gain. It is more akin to making a societal contribution to rate reduction of crime against women.



# Problem Statement



India has an abhorrent track record in all forms of sexual exploitation, ranking among the worst countries in terms of crime. In homes, on the street, on public transportation, and even in offices. Indian women are constantly on high alert, much like a country on high alert for terrorists. There have been gruesome cases of toddler rapes, gang rapes of eight-year-olds, and women trafficking. We should be ashamed that we have created a society in which women are learning to cope with existential anxiety.

# Objective

In order to provide Indian women a sense of security and empowerment, we are concentrating on developing an efficient, quick, and reliable method. For women, our platform will serve as a constant source of support and companionship, ensuring that they never feel abandoned in the midst of a crisis. It will bring the people of India together and make it possible for the police to collaborate on a common issue. The police will be able to prevent crimes against women with the use of this technology, which will serve as their eyes and ears. This tool has been created in a way that it covers the different situations a woman can find herself in, such as when she's by herself or in a busy area.



# Scope

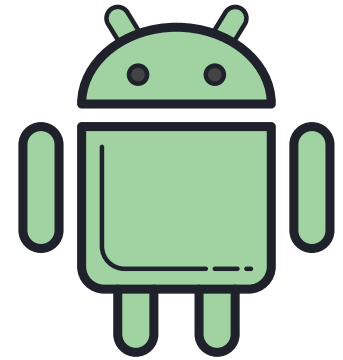
An essential component of a women's safety project that seeks to stop violence against women and offer support to women is saving the phone numbers of important family members in nearby storage. Women may be able to easily get the contact details of dependable relatives who can provide assistance and support when needed thanks to this function.

A useful addition to a project aimed at improving women's safety could be the ability to call and send messages with real-time locations by shaking the phone three times. This can be particularly useful when a woman feels threatened or uncomfortable and has to quickly and covertly ask for assistance.

Encouraging the purchase of women's safety equipment from small business owners can be an important scope for a women safety project. This can not only support local businesses and entrepreneurs, but also provide women with access to quality safety equipment that meets their specific needs.

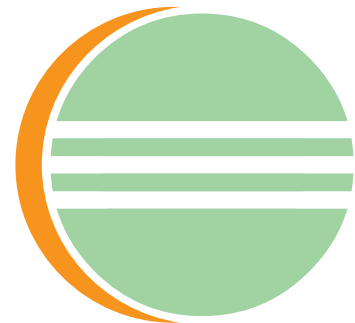
## Android OS

Android OS, or Android Operating System, is a software platform designed primarily for mobile devices such as smartphones, tablets, and smartwatches. It is an open-source operating system, which means that its source code is available to developers and can be modified and customized according to their needs.



## Eclipse for android devs

Eclipse is an Integrated Development Environment (IDE) that is commonly used by Android developers for writing, testing, and debugging Android applications. It is an open-source platform that provides a range of tools and features to simplify the app development process.





# Hardware Requirements



1. PROCESSOR : Dual core Processor and above
2. RAM: 1GB and above
3. HARD DISK : 50 GB and above

# Methods

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JAVA

SQLite Database

Geolocation API

SMS Manager API

Telephone manager API

Accelerometer

Implicit intents for sms, call

Broadcast Receiver

# Accessing Sqlite database

```
// create or open database
SQLiteDatabase myDatabase = openOrCreateDatabase("myDatabase", MODE_PRIVATE, null);

// create table
myDatabase.execSQL("CREATE TABLE IF NOT EXISTS phone_numbers (id INTEGER PRIMARY KEY, number TEXT)");

// get phone numbers from user input
String[] phoneNumbers = {"", "", ""}; // array to store the phone numbers
for (int i = 0; i < 3; i++) {
    System.out.println("Enter phone number #" + (i+1) + ": ");
    phoneNumbers[i] = // get user input for phone number
}

// insert phone numbers into table
for (int i = 0; i < 3; i++) {
    myDatabase.execSQL("INSERT INTO phone_numbers (number) VALUES ('" + phoneNumbers[i] + "')");
}

// retrieve data
Cursor cursor = myDatabase.rawQuery("SELECT * FROM phone_numbers", null);
if (cursor.moveToFirst()) {
    do {
        String phoneNumber = cursor.getString(cursor.getColumnIndex("number"));
        // do something with the phone number
    } while (cursor.moveToNext());
}
cursor.close();

// close database
myDatabase.close();
```

# Accessing Accelerometer

```
// create an instance of the SensorManager class
SensorManager sensorManager = (SensorManager) getSystemService(SENSOR_SERVICE);

// get an instance of the accelerometer sensor
Sensor accelerometerSensor = sensorManager.getDefaultSensor(Sensor.TYPE_ACCELEROMETER);

// create an instance of the SensorEventListener class
SensorEventListener accelerometerListener = new SensorEventListener() {
    @Override
    public void onSensorChanged(SensorEvent event) {
        // handle changes in the accelerometer readings here
        float x = event.values[0]; // acceleration along the x-axis
        float y = event.values[1]; // acceleration along the y-axis
        float z = event.values[2]; // acceleration along the z-axis
        // do something with the accelerometer readings
    }

    @Override
    public void onAccuracyChanged(Sensor sensor, int accuracy) {
        // handle changes in the sensor accuracy here
    }
};

// register the SensorEventListener with the accelerometer sensor
sensorManager.registerListener(accelerometerListener, accelerometerSensor, SensorManager.SENSOR_DELAY_NORMAL);

// unregister the SensorEventListener when done with the accelerometer
sensorManager.unregisterListener(accelerometerListener);
```

output

WELCOME TO  
WOMEN PROTECTION SYSTEM

↑↑

Medussa

↓↓

LOGIN

RESET

CALL1CALL2CALL3

CALL\_1CALL\_2CALL\_3

SAVE

EMERGENCY

LAT:0

LON:0

SHOPPING

AMAZONFLIPKART

# Uses

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1. Emergency alerts
2. GPS tracking
3. Panic button
4. Safety tips
5. Resources



# THANK YOU



Sai Vindhya Tenneti  
(120106008)

Prathapagiri SreeVeda  
(120106031)

Md Abu Sufiyan Ahmed  
(120106051)