



# Safemaps

An app which gives you the safest way to reach your destination.

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# Team details

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## What we want to solve?

We aspire to solve the problem where women travelling through new places tend to opt the shortest path given by Google Maps. This path may be unsafe and make women prone to risks and crimes.

# Problem?



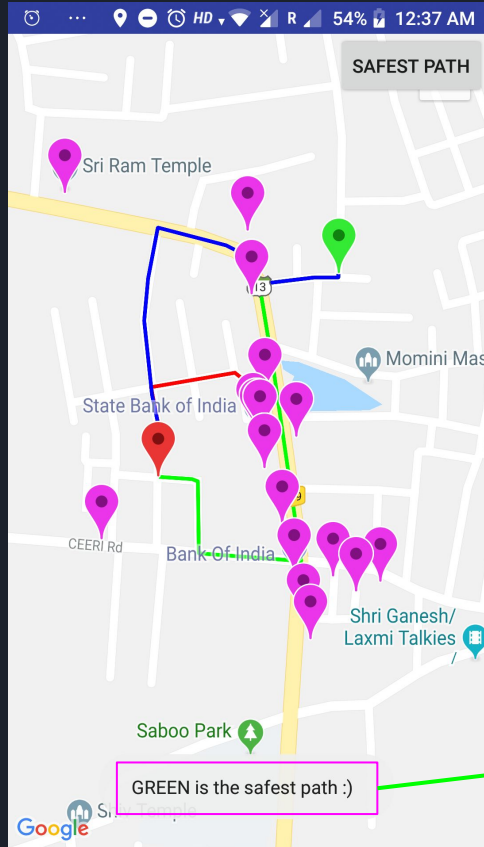
Crime against women has increased dramatically over the last decade and many of them happens in the risky and unsafe areas which come along the way while women travel to places which might be newer to them.

Generally women while travelling to newer places depends upon taxi drivers and google maps(while travelling alone) which do not take into account the safety of the path chosen and solely considers the travel time and traffic.

No consideration is given to the inaccessibility to police station or hot crime zones or isolated areas or even red light areas which collectively make the area highly unsafe for women.

Most of the crimes like theft, assaults or rapes are likely to occur in such unsafe and unprotected areas.

# Relevance of Safemaps?

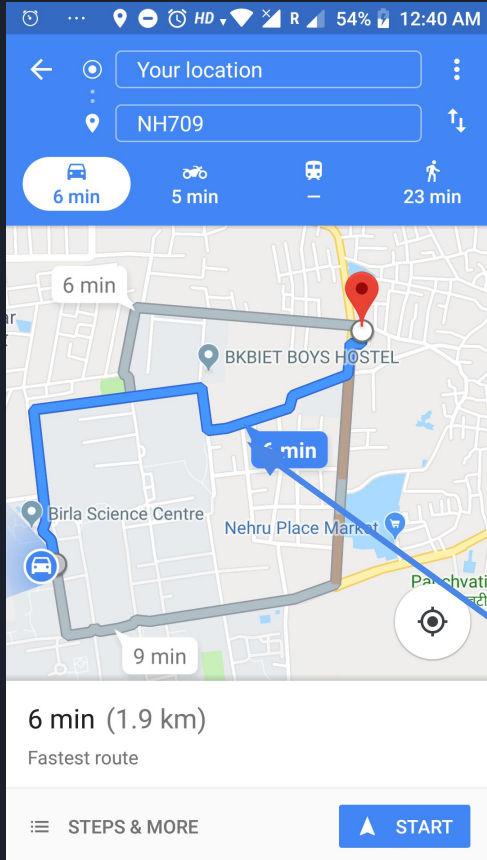


Our app gives the safest way while considering all the possibly unsafe locations (isolated places, hot crime zones, red light areas, wine shops, etc) as well as safe locations (Police stations, crowded areas, malls, etc) and rating them accordingly and providing the safest way possible.

We have used google developers places API and have classified different places according to the google data set which is pretty vast for accurate results.

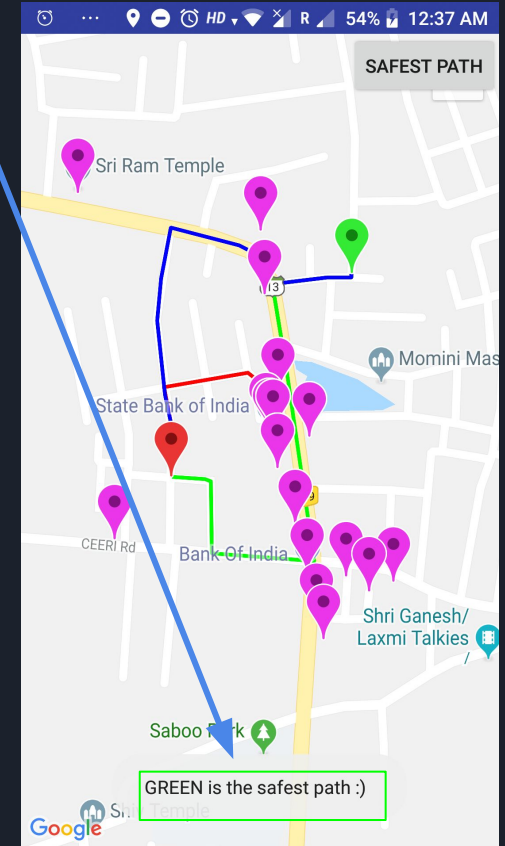
GREEN is the safest path :)

# Working of Safemaps



Safemaps provide you with the safest possible way to reach your destination.

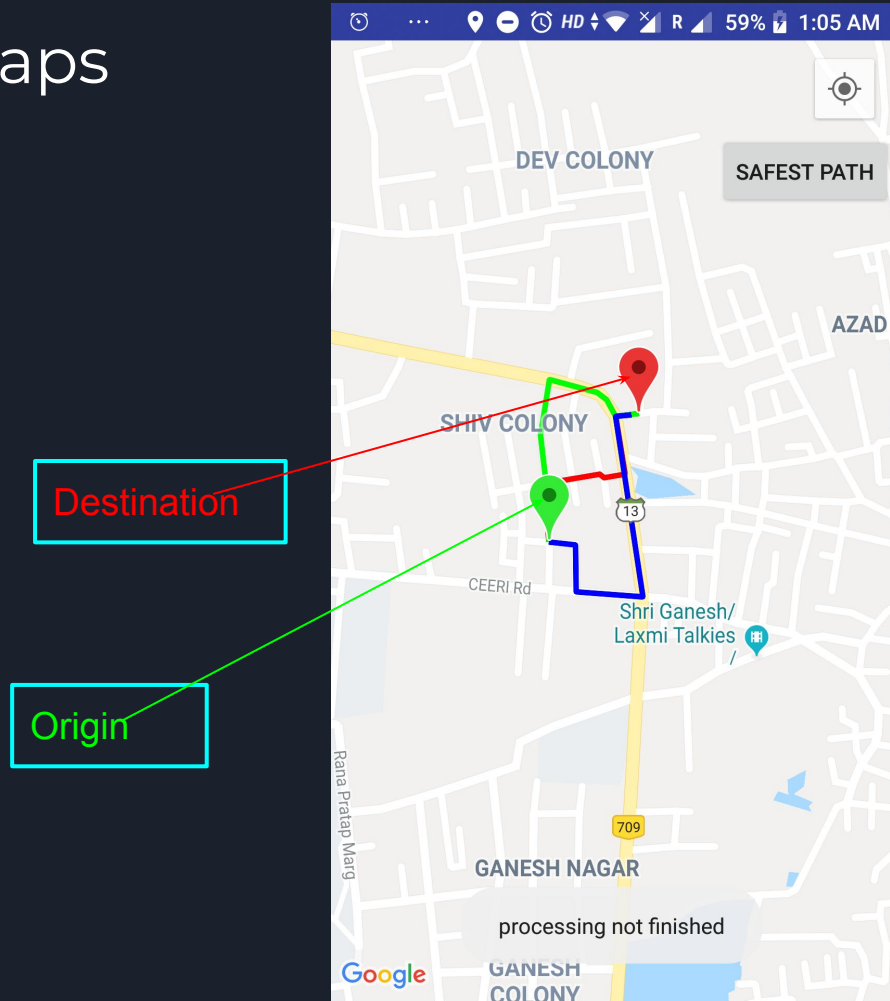
Google Maps returns the shortest path which might not be the safest to travel.



# Working of Safemaps

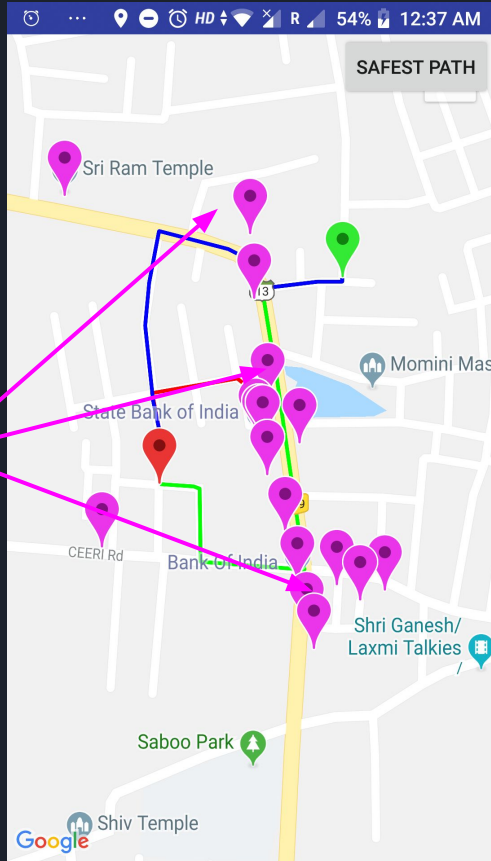
## Selecting origin and destination

1. Select your current location through the current location button and a marker would pop up.
2. Select your destination and a similar marker would pop up.
3. 3 or lesser paths will be displayed with Red, Green, Blue colour as returned by server.



# Working of Safemaps

Places

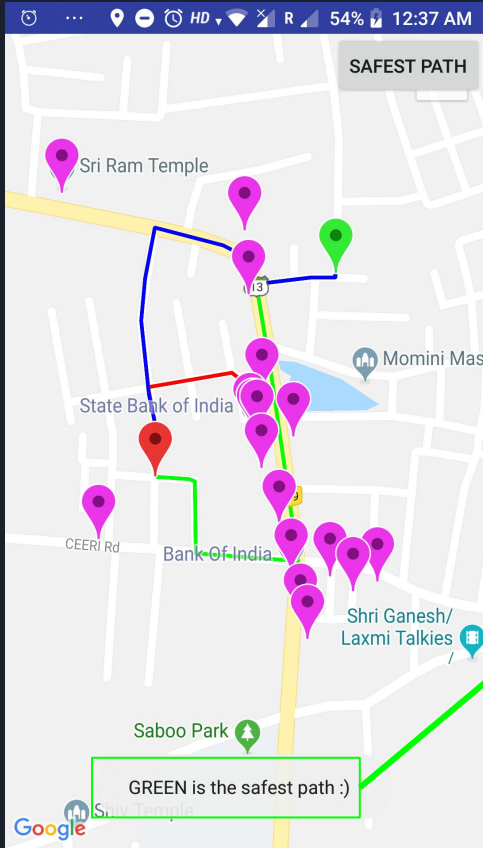


## Displaying different places using pink markers

1. Core work of Safemaps lie in this.
2. Safemaps will collect all the places that you would come across while travelling through all of those possible paths from your location to destination.
3. Safemaps will use google Places Types to give best possible tag to all those places.
4. Safemaps will rate all those places according to the type of place (a wine shop or a temple?) according to pre-decided and mutable score of place on a scale of 20



# Working of Safemaps



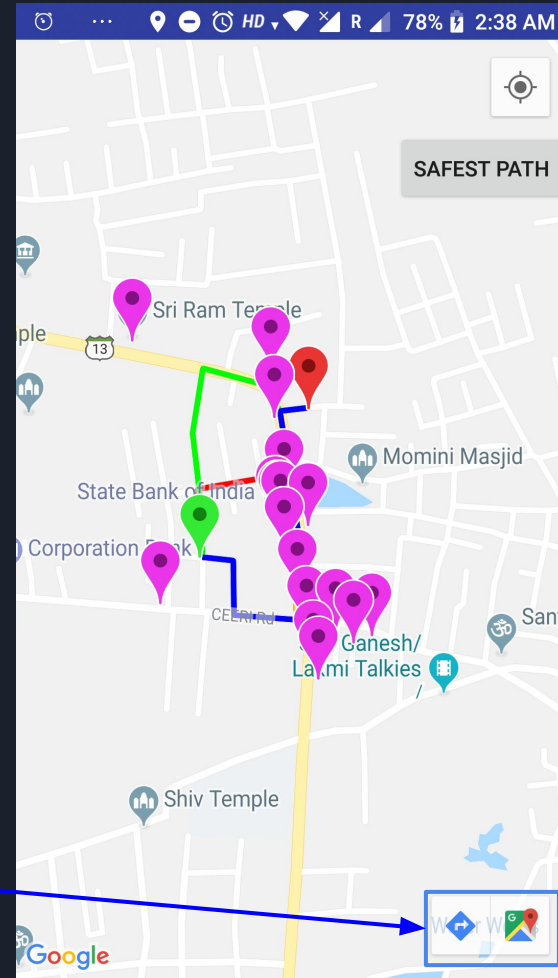
## Safest Path Button

1. Click on **Safest Path Button** on the right most corner.
2. You'll find one of them on your screen:
  - Processing not finished OR
  - Safest Path to travel is **RED** OR
  - Safest Path to travel is **GREEN** OR
  - Safest Path to travel is **BLUE**.
3. Now go to google maps by selecting "go to maps" by the button on the lower right most corner and choose the safest path as shown by Safemaps and have a happy Journey :)

# Working of Safemaps

## Navigating Safest Path using Google :)

1. Click on the right bottom most button to go to google maps.
2. Navigate through the Safest path as returned by Safemaps.
3. Have a Happy and Safe Journey :)





# How to run Safemaps on your Phone?

This Slide will cover How can you install Safemaps on your Phone by using the apk file

1. Download the apk file attached.
2. Install it on your phone.
3. Safemaps will be installed in your phone in no time and you can start using Safemaps.



# How to run Safemaps on your Phone?

This Slide will cover How can you install Safemaps on your Phone by using Source Code.

1. Download the zip file with source code.
2. Extract the Zip file to some location in your PC/Laptop.
3. Open the Project on Android Studio and Click on Run button while make sure debugging mode is ON in your android device and you have connected your phone with the PC.

# Frequently Asked Questions?

**What is the minimum Android version required?**

Android version 5.0 Jelly-bean (sdk version 21)

**Does Safemaps guarantee absolute safe path?**

No Safemaps only returns you the probabilistic safest possible path considering the nature of places that comes around in a range of a few metres across every possible route from origin to your destination.

**How is Safemaps different from Google maps?**

Google maps returns you the shortest path but Safemaps returns you the safest path.

# Frequently Asked Questions?

## How Safemaps rate Places?

Safemaps has a mutable Score chart for all the places as mentioned on [Google Places Types](#) website, as of now from a prototype point of view, places were rated from a personal point of view but later can be assigned from a combination of public as well as user response to a particular place.

Scores out of 20 for some are:

Place Type	Score	Place Type	Score
Bank	10	Hospital	15
Bar	-10	Liquor Store	-15
Hindu Temple	15	Police	20

# Further Scope?

1

Markers can be manually added to identify the hotspot crime zones . App will then assure to give a path considering maximum possible crime zones.

2

Feature can be made available so that users can vote a particular place up or down to get it a more positive or more negative score while Safemaps calculate the Score of a route.

3

Emergency button and Phone number of Nearest possible police station can be made available while the user navigate through the route.

# Contact us?

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