



GOSAFE



Wings to fly high

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Motivation

The issue of women's safety has been in the news frequently lately. Many women have expressed concerns about traveling, and many have opted not to step out of their homes, to lead successful lives independently. Safety while travelling is a major concern for girls going to school, for women working late at night, for solo female travelers, basically for each and everyone of us.

As our safety is being compromised in various ways, we think this is something that needs to be tackled at the earliest. That's why we came up with a solution to help women feel more confident and safe on road.

GoSafe

- Suggests **Safe Route** to travel and halt.
- Helps user to decide **Safe Place** to stay or visit.
- Allows users to share how **Safe they Feel** in Area.
- Simple and user-friendly.

GoSafe - Safety Markers

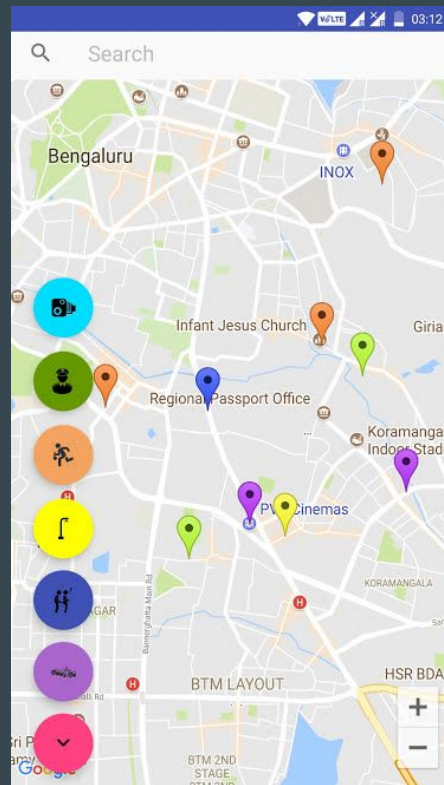
Makers helps in determining safety of an area:

- **Green** markers denote Presence of Police.
- **Cyan** markers denote Presence of CCTV cameras.

- **Orange** markers denote areas where incidents of Theft / Robbery were reported.
- **Yellow** markers denote not Well Illuminated area.
- **Blue** markers denote Harassment incidents.
- **Purple** markers denote accidents incidents.

Safe

Unsafe



* Markers shown in map is for demo purpose only

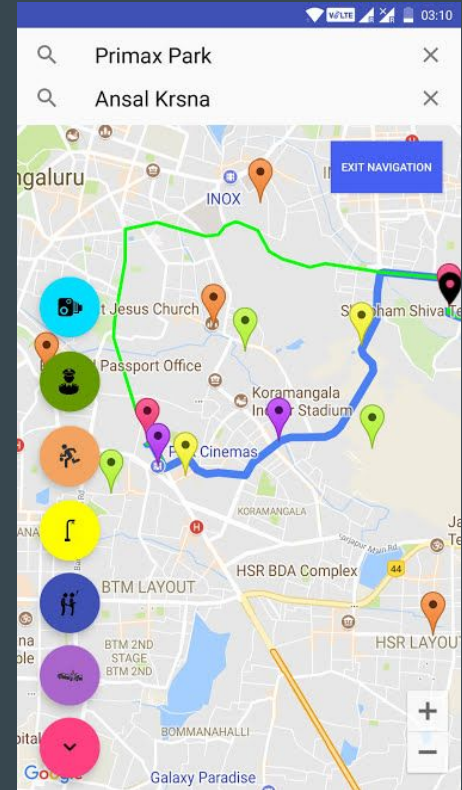
GoSafe - Safety Navigation

Green Route: Path suggested by GoSafe

Blue Route: Path suggested by Google Maps API

GoSafe algorithm suggests the route such that it encounters minimum negative and maximum positive areas.

The user feedback is also taken into account similarly.



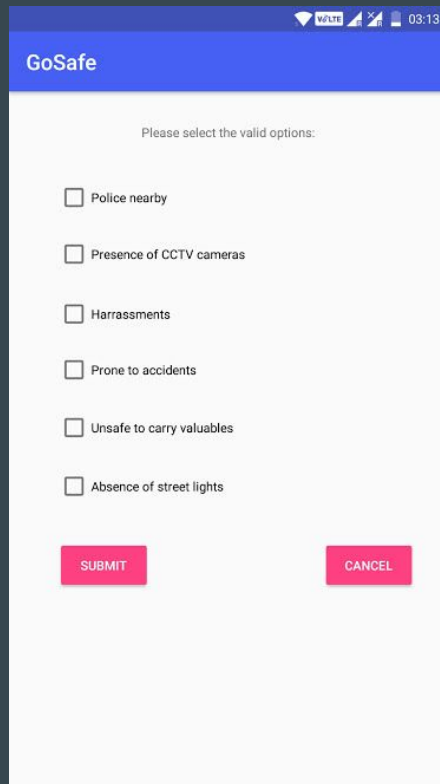
** Markers shown in map is for demo purpose only*

GoSafe - Feedback

Help making city safer by:

- Point to the Location on map.
- Click on the marker to report feedback
- Submit the form.

Crowdsource Audits helps in keeping the information up-to date. Let us know better how safe people feel in a place.



The screenshot shows a mobile application interface for reporting safety issues. At the top, there is a blue header with the text "GoSafe". Below the header, the status bar shows "VOLT", signal strength, Wi-Fi, and the time "03:13". The main content area is white and contains the text "Please select the valid options:". Below this text, there are six checkboxes, each followed by a label: "Police nearby", "Presence of CCTV cameras", "Harrassments", "Prone to accidents", "Unsafe to carry valuables", and "Absence of street lights". At the bottom of the form, there are two red buttons: "SUBMIT" on the left and "CANCEL" on the right.

Challenges

- Not much Crime related governmental information is available in Developing countries. Existing Information systems are not well synergized.
- Identifying significant factors for safe and unsafe route.

Technical Details

- **Data Collection:**
 - Automatic web scraping of Newspapers.
 - Identifying associated locations with the crime using Stanford NER API.
- **Safest Route Algorithm:**
 - Using Google Maps API to find alternate routes between two locations.
 - Safety of a route is determined by incorporating number of positive and negative markers in its vicinity, each marker having its own safety weight.
 - Markers locations is extracted from Newspaper and User Feedback.

Potential Extensions

- **Data collaboration** with Police and Government, for better Policing.
- City specific **Native Language Newspaper Parsing**. In order to gather more local information about the incidents.
- **Push notification for Emergency Alert**. To nearby police and people requesting for help.

Our Team

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Contributions: All the work including ideation, research, data parsing, design and development is a combined effort of all three of us.

To know more about GoSafe, refer [Github GoSafe](#).

Thank You