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

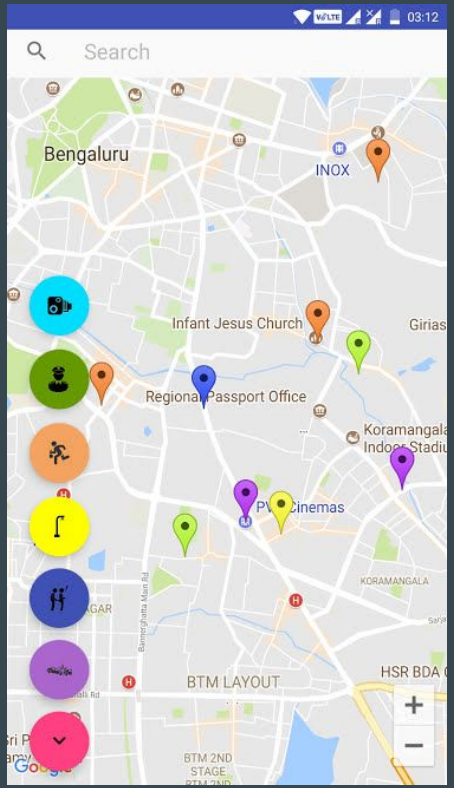
Makers helps in determining safety of an area:

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

Safe

- 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.

Unsafe



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

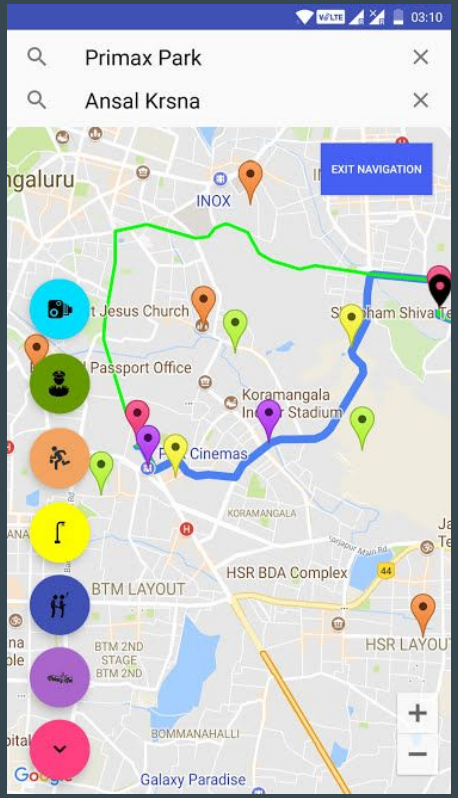
GoSafe - Safety Navigation

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.



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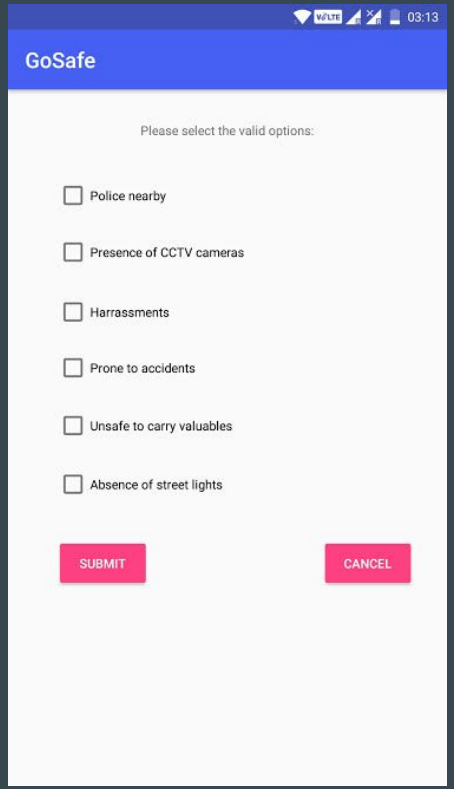
GoSafe - Feedback

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.



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