Juvo

App for handling distress calls

- Team RSS

The Idea

It is common sense that distress calls need to be handled promptly and efficiently.

What Juvo tries to do differently, though, is to minimize the user's involvement in handling the call; we understand that expecting the user to have the presence of mind to remember a set of instructions during a crisis is a very unreal expectation.

The Idea

Thus we have tried a different approach - we use more deliberate and therefore accurate methods for sending distress calls when the user is in an area that is considered safe, and less deliberate (and thus more intuitive) methods for making distress calls in areas considered unsafe.

Implementation - Data

- Assign a safety score to every area in Bangalore
- Have a threshold safety score

Implementation - Safe Areas

- Basic functionality - distress button

Implementation - Unsafe Areas

- Notify user upon entering unsafe area
- Notification gives easy access to distress button
- If user does not respond within a designated time, a distress call is sent automatically
- Send alarm notification to user. Wait for response

Implementation - Future

- Registering whether the user is trying to flee someone via the accelerometer
- Registering abrupt heart rate changes to check for anxiety.

These features in conjunction will allow the app to discern if a distress call needs to be made by training the app on a test set using machine learning

Revenue Model

- For an initial period, revenue may be generated through advertisers, till the app reaches a critical mass of users.
- Send push notifications and targeted advertising occasionally
- Wearables may be introduced to gather the data and boost revenue at this stage
- Reduce battery consumption of app, improve data gathering

Open Source Code We Used

- Notification Handling - Team Android Authority
- SMS Handling - Abubakr (contributor, c-sharpcorner.com)