PPT SUBMISSION

Team Name : Mandala

Problem Statement / Theme : In today's society, the atrocities on women are increasing day by day. Develop a software or a website for their safety in case of emergencies.
Theme: Travel/Tourism- Women Safety

Team Member Details

Team Leader

Saumyamani Bhardwaz

3

Team Member 1

Rohan Godha

3

Team Member 2

Kunal Pidiha

3

Team Member 4

Tavishi Vemuri

3

Describe your idea

In today's society, the atrocities on women are increasing day by day. Every second morning or other, we get to hear that once again! another girl was harassed publically, eve-teased, left alone to suffer from never ending pain for the rest of her life after raping her vigorously on the streets of the "developed and educated society".
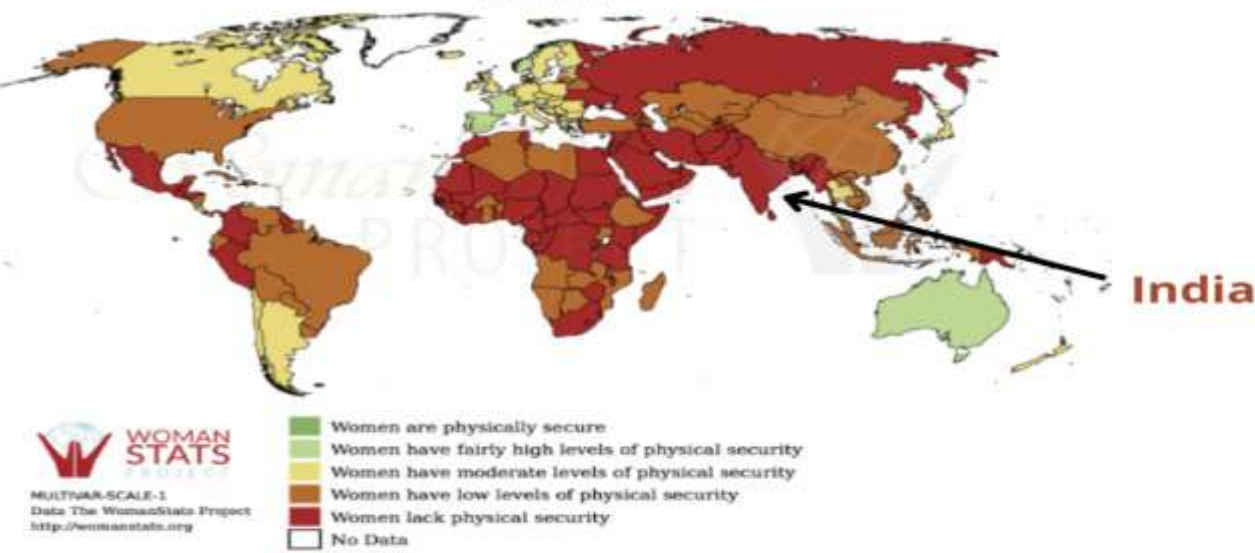
The problem which arises is the need for such a system which can provide a support to those females of the society who have to face this daily, in bus, in sub-ways, on streets and in the office canteen too.
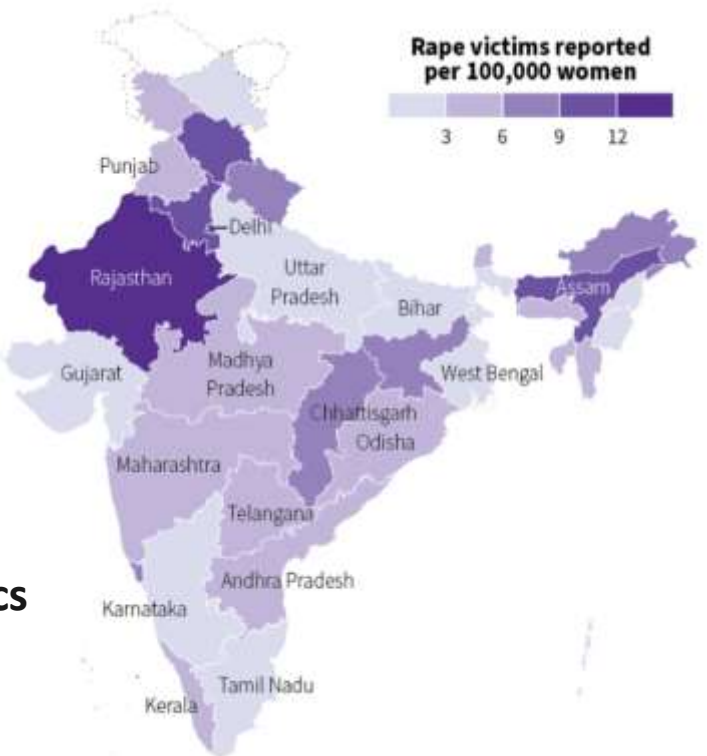
Describe your idea

SECURITY STATS MAP

Physical Security of Women
Scaled 2019

India

- Women are physically secure
- Women have fairly high levels of physical security
- Women have moderate levels of physical security
- Women have low levels of physical security
- Women lack physical security
- No Data

MULTIVAR-SCALE-1
Data The WomanStats Project
http://womanstats.org

WOMAN STATS PROJECT

Rape victims reported per 100,000 women

3   6   9   12

Punjab
Delhi
Rajasthan
Uttar Pradesh
Bihar
Assam
Gujarat
Madhya Pradesh
West Bengal
Chhattisgarh
Odisha
Maharashtra
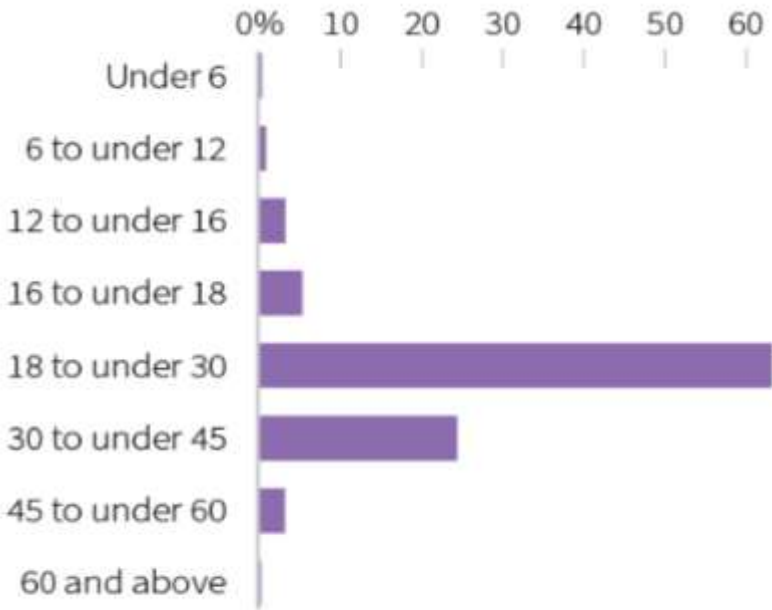Telangana
Andhra Pradesh
Karnataka
Tamil Nadu
Kerala

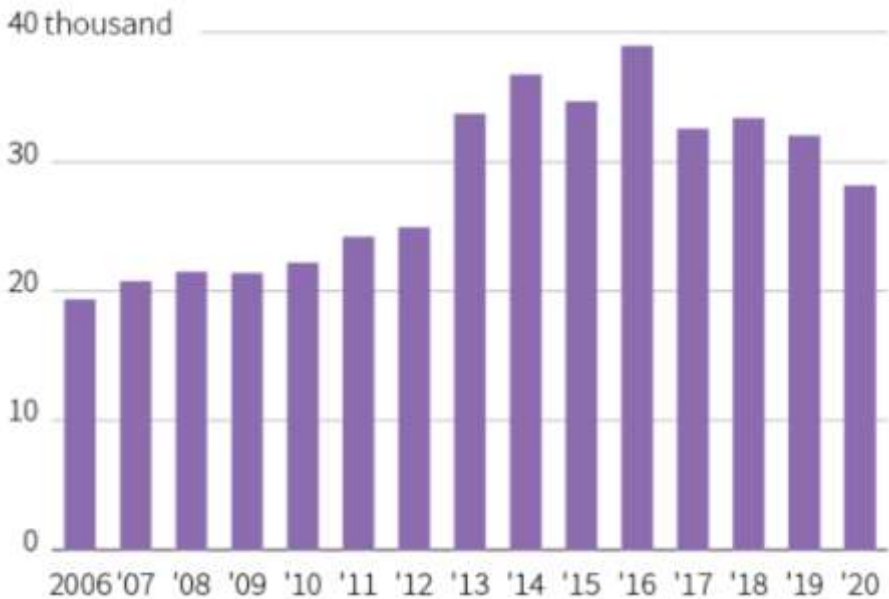**Women Crime Statistics In India**

Describe your idea
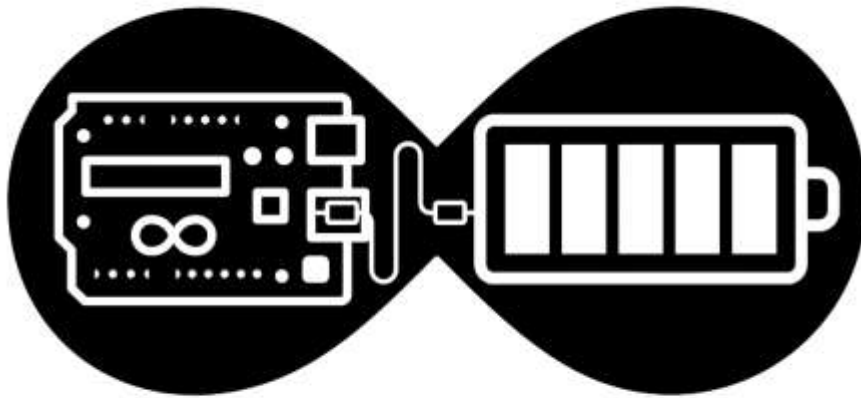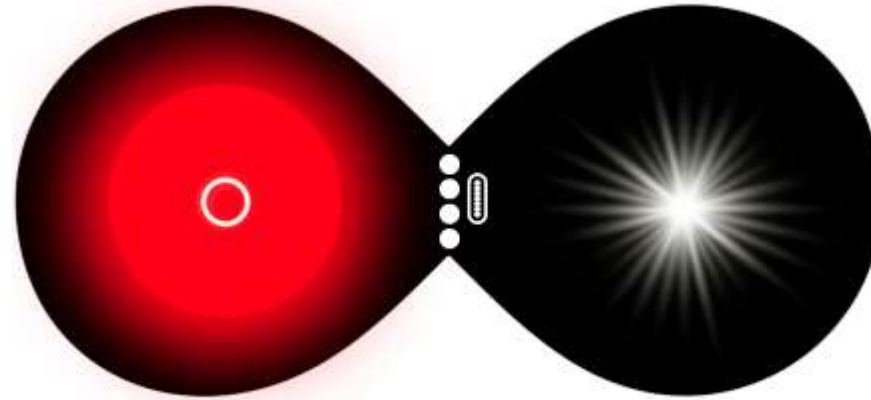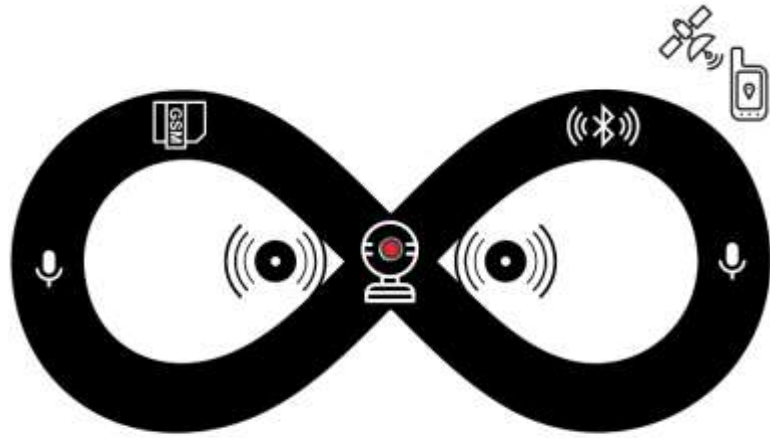
Rape cases with female victims by age group

Total rape cases reported by year

Prototype

Solution

We are going to solve this issue by creating such a website along with a locket called "Mandala" which the woman can wear to assist her while she is traveling alone or feeling unsafe.

The locket would have the following features:

-GPS Tracker.

-ULTRA LUMINENT FLASH.

-Ease to contact the 5 Family Members in the times of Emergency.

-Contact the nearest police station.

-Notifying the nearest women's safety patrolling center.

-High Volume Buzzer to draw the public's attention.

-Neon Coloured Light to be easily identified by the rescue team.

-Identification of Harassment Hotspot Zones.

Solution

Flowchart

1 — Woman senses Threat

2 — Woman Presses Safety Button

3 — An SOS Message Is Sent To The Nearest Police Station, Woman Press Patrol Unit, 5 Family Members

4 — ULTRA LUMINENT FLASH starts glowing which can make the harasser blind.

5 — A notification pops up on our tab, giving details about:
- GPS Location.
- Details of the nearest emergency services.
- Harassment History of that place.

6 — Help reaches on time and rescue.

Women irrespective of being alone would start feeling safe whenever they want to roam or visit somewhere outside their homes, even at odd hours.

This device will provide a sense of safety leading to increased women labour force in male-dominated sector

Safety Ensured

SOCIAL IMPACT

Freedom to move on roads at any hour

Increase women work Force

Instant Action against defaulter

When the system will notify the nearest police station, women safety board, family, then the possibility of catching the harraser red-handed will increase.

Women's workforce participation will have a ripple effect on **WOMEN'S LITERACY RATE.**

- More Participation of Women in education rising the count of educated women who teach their children values to safe the environment.

- Expansion of women's participation in restoring drylands leads to greener and better earth.

Environmental Sustainability

- Women's participation in protecting and sustainably managing natural resources.

- More number of women get themselves regularly medically consulted removing the risk of diseases which may degrade the environment.

Techstack

Hardware Requirments:-

- GPS module (GYGPS6MV2)
- GSM (SIM900)
- ARM 7 board with controller (LPC2129)
- Bluetooth
- Microphone Voice recorder
- PCB design processor
- Other components

Women Safety Task Force-

- An emergency squad of 17 members to analyze.
- Night patrolling of the unsafe hotspots.

Risk Terrian AI Model-

- Based on the data of previous crimes, a forecast would be produced of unsafe hotspot.
- Accuracy is established by accounting features such as subway, bus station, bars, weather etc

Software Requirments:-

- Platform:
- Windows XP
- Front End: Java JDK1.5
- Back End: MS
- SQL Server
- Embedded Kit
- Android Phone

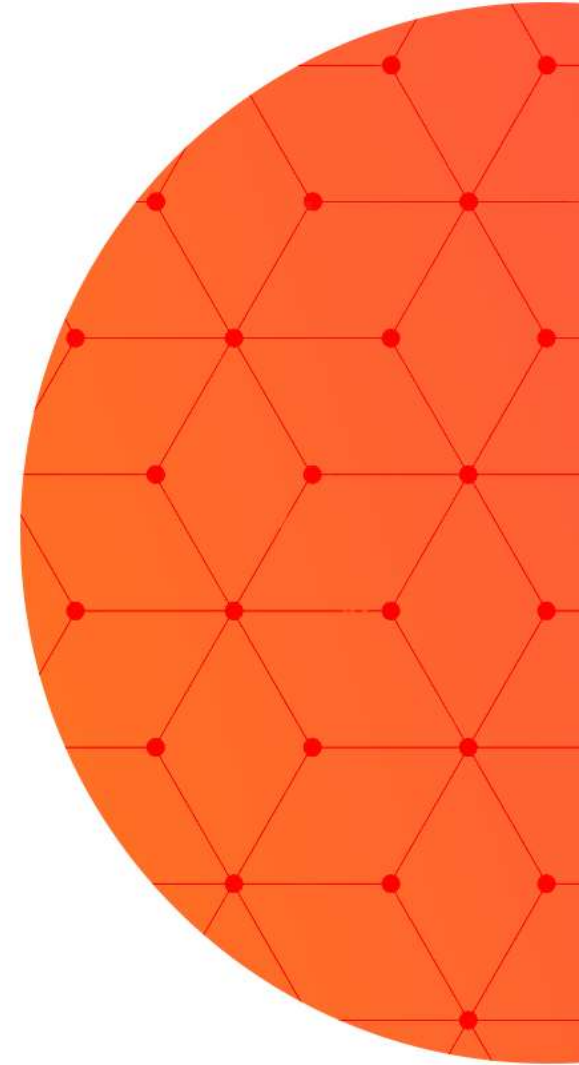**Predictive Policing AI Model-**

- The city would be divided into a grid of 1 km squares.
- Based on the data of previous crimes, a forecast would be produced of unsafe hotspot.
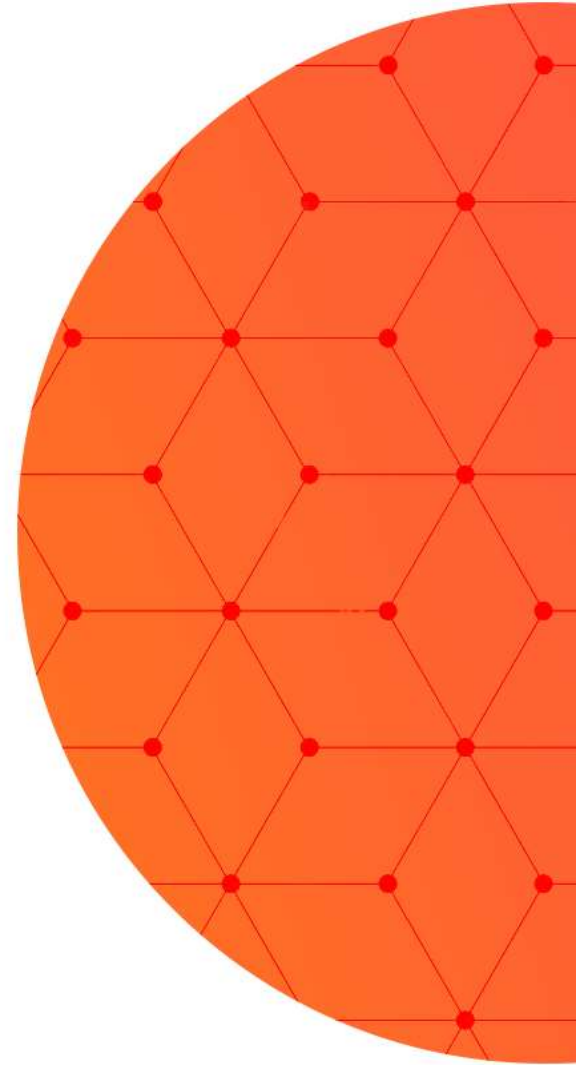
Techstack

- Our plan is to integrate IoT, and Web Development under one umbrella.

- Once the woman wearing this locket-alike device pushes the SOS button, the alert system would get activated and various kinds of safety functionalities like sharing location and tracking would start and the rescue team would be there to help on the instance.

- All of this would be monitored and handled through our website that we would be creating as a part of this project.

Scalability

•An emergency squad of 17 members to analyze.
•Night patrolling of the unsafe hotspots
•The city would be divided into a grid of 1 km squares.
•Accuracy is established by accounting features such as subway, bus station, bars, weather, etc.
•Based on the data of previous crimes, a forecast would be produced of unsafe hotspot.

Feasiblity

•Based on the data of previous crimes, a forecast would be produced of unsafe hotspot.
•Accuracy is established by accounting features such as subway, bus station, bars, weather etc

Impact

More Participation of Women in education rising the count of educated women who teach their children values to safe the environment.

Relevance

Can provide a support to those females of the society who have to face this daily, in bus, in subway, on streets and in the office canteen too.

THANK YOU !!!