

Problem Statement by: Government of India

Use case for Upcoming 5G Technology



Let's talk about women's safety.





Team Name
Nokia 3310

Problem needs to be solved.



Problem 1

India was ranked first and named the world's most dangerous country for women in 2018. And according to stats a girl is being raped in every **20 minutes**.

Problem 2

More than 90% cases about women rape, lost under the files due to society fear or lack of authority.

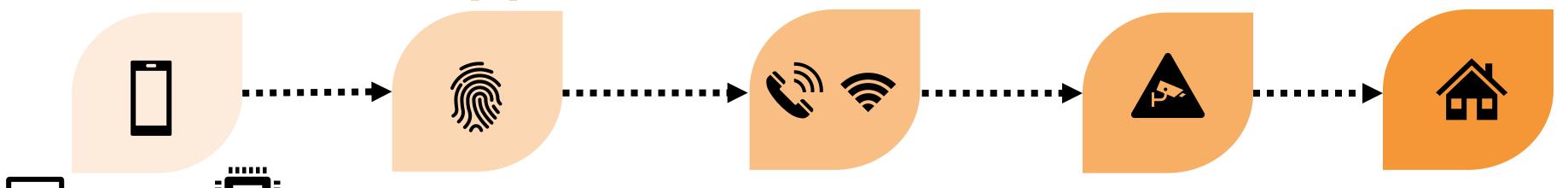
Problem 3

Lack of Self Defense tools and Quick Access to them using latest technologies.

Problem 4

Lack of awareness and fear of punishment among the wrong doers.

Solution and Approach



Mobile Application

- A unique mobile application has been developed.
- A hardware gadget
 with emergency
 features if control
 over mobile phone is
 lost.
- Web portal for complete location Monitoring which will direct police and authorities to have patrolling over most affected areas.

Uniqueness of our Application

- On shake emergency call and location sharing feature.
- With same shake one can capture the photo of attacker and that photo will automatically be sent to guardian via WhatsApp.
- Now what will happen where there is no internet? We will be sending the same signal via SMS. It means all the emergency operations are working just by a shake on a particular gesture.
- Voice clips of 5-10 sec will also be streams continuously after shake.
- We have One-Tap OLA Ride booking feature enables to automatically book a ride to nearest police station or home.

How we are preventing mishappening.

- * A women who is in danger will shake her phone or use our app to send a push notification. If our app is made a default app for every smart phone user everyone near her will be getting a pop up notification in there phone. EVEN the ATTACKER. And whoever allows that notification will be shown the shortest path to that women using google maps. (((x)))
- This will also give us the location of closest person near her in our database to catch the culprit.
- Further we have siren feature enabled in our app.

Steps Taken towards security.

- If the Wi-Fi or internet is off, our app will automatically turns it on.
- If our phone is locked, just a gesture from hand is required.
- No internet available?
 We have SMS feature enabled to send location.
- Lost control over phone? We have our smart gadget to activate services.
- Nothing can stop us in preventing the wrong.

Return to Home Safe and Secured.

 This will surely prevent the danger and the women can be helped by many ways at a single time.

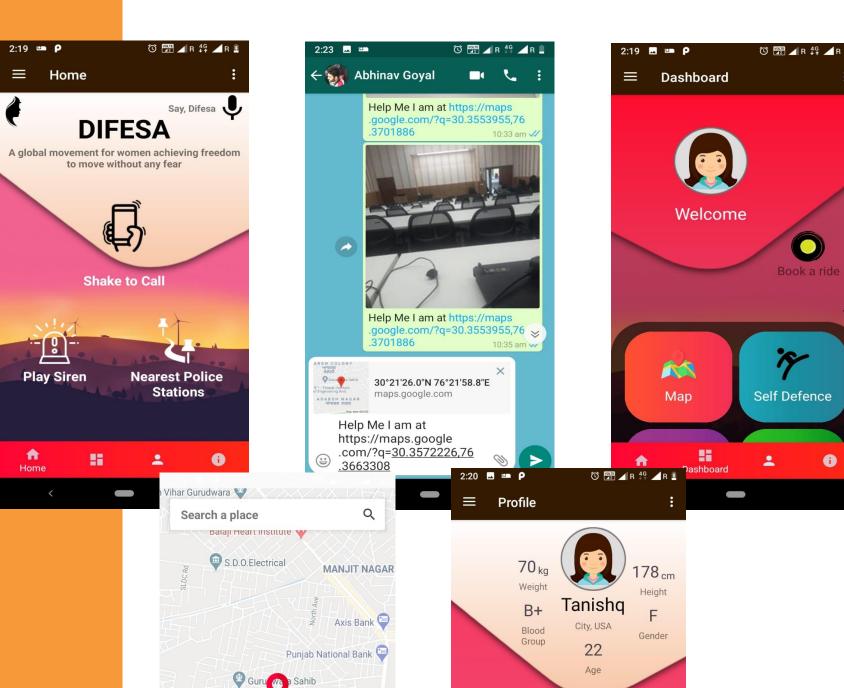
We don't want you to think for the time of the incidence happening or after it. We are here to save the person before mishap and to make the wrongdoers believe that they cannot be saved by anyone, not even by themselves.

Workflow Structure HARDWARE & APP WRIST BAND ONE TAP LED APP MODEL **CUM WATCH OLA BOOK DIFESA NODEMCU &** REGISTER & SHAKE TO BUZZER FIREBASE LOGIN WITH CALL & FIREBASE INTEGRATED SIREN **ANTI-CUT BUTTON TO** SHAKE MOBILE IN **VOICE CALL** TRIGGER LOCK MODE DETECTOR CALL APP ISN'T SHAKE TO CALL TO **IMAGE GUARDIAN** RUNNING TRIGGER CURRENT TEXT LOCATION WHATSAPP DIFESA APP LOCATION MESSAGE





Screenshots

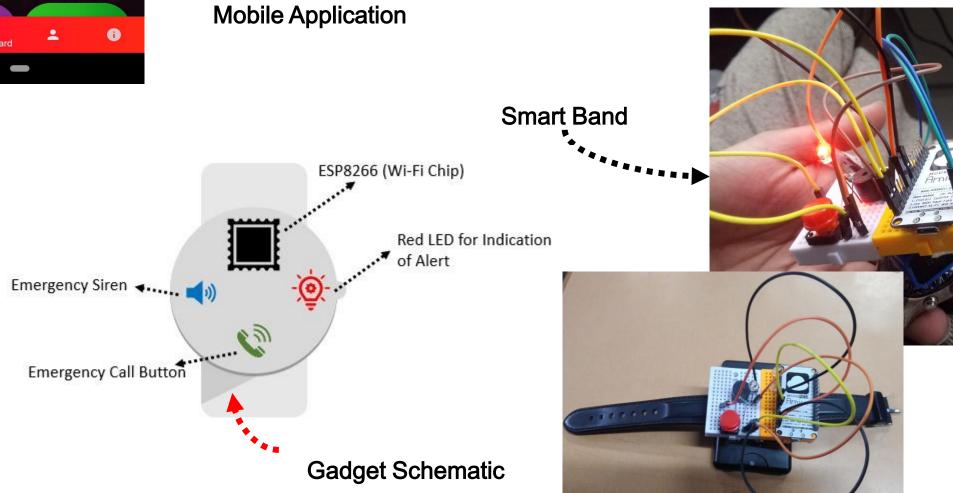


Punjab Pollution Control Board 🗰 9027281381

HEALTH REPORTS

How 5G will help?

- Faster Network and Internet speed will make our device work faster.
- Access to cloud and database will be fast.
- Better connectivity and reach to people.
- Public Networks will be faster and police stations and hospitals can access our portal in much more efficient way.
- Nearby people will get notifications earlier.
- Audio and Video Clips can be Streamed easily.





Product Development Plan

Development of Web Portal

Complete Web Portal will be developed for police stations to keep a check on the most affected areas and localities..

Prototype Development of Hardware

Prototype of Smart Safety Gadget is also being made and in in proper working condition. New changes are being performed for betterment.

Mobile Application Development

Mobile Application is being developed will all the novel emergency features and many other features (such as live video clips streaming) will be added.



02

01

05

06

Product Development Complete

Product is ready to bring into market to prevent any mishap related to our women. Keep them safe and make our country and people proud.

Syncing of App, Web And Hardware

All three Mobile App, Web App portal and Hardware devices will be synced together to our database for complete functioning.

Production Level Hardware Design

At this stage Hardware will be converted to production based design keeping aesthetics and form factor in mind to keep it efficient and usable.

Testing of Complete Product

Final Testing of product will be done before launch to check all the functionalities and bugs(if any).





Business Model

We will be giving free access of our Mobile Application because it's a social cause and it needs to be monitored primarily and in the most effective way. But we can generate revenue and our maintenance cost from our hardware gadgets and Smart Android Watches and Gear Integration Application.

Smart Gadget (₹199)

- A Wrist Watch or a wrist band.
- Wi-Fi enabled.
- Buzzer.
- Emergency Call Button
- App Integrated
- Can be provided with pepper Sprays.
- Variant 1 is designed for classes with low financial background. ₹200 is quite affordable.
- Our product will be manufactured approximately for ₹110 and we can generate profit of about ₹80-90/piece.

Attachment (₹399)

- Attachment for present analog and digital watches.
- Wi-Fi Enabled.
- Emergency Button.
- App Integrated.
- Variant 2 is designed for most people of the society.
- The product will be manufactured approximately for ₹200 to ₹250. We can generate a profit of ₹200 to ₹ 150 per piece, which can be used for development of society.
- Since this variant has the potential of maximum sale, hence we will try to extract maximum profit from this product.

App for Android Watches (₹999)

- Advanced App for Smart Watches presently in Market.
- Will be enabled with all the necessary emergency features.
- One-Time Subscription.
- Variant 3 is premium product designed for people already having smart watches..
- This is just an app for watches and will only cost cloud charges. So for these users, this price is quite affordable.



Note: Concept of Psychological Pricing is being used here for better marketing.



Marketing Strategy

Size the Market

Total Available Market (TAM)

672 Million

Serviceable Available
Market (SAM)
(Considering Ages 1564)

432 Million

Serviceable Obtainable
Market (SOM)
(Considering our product
90% Successful)

389 Million

Time to Market

This needs to be deployed as early as possible.

According to the statistics, there is one women raped in every 20 minutes. We need to curb these practices in India and let our sisters live in peace and without any fear.

We are almost ready with out App to be deployed. Just need some mentorship and finishing.

We aim to make this app a **default application** in every phone so that there is no way out to for wrong doers to think about touching anyone without their consent.

No means, NO





Timing

We need to **enter as soon as possible**. This cancer needs to be eradicated from the society as soon as possible.

No one has ever made this **efficient technology** and with this number of features to provide safety. We are not here just to catch attacker, we are here to **defend the mishap** and catch the thinker of performing this. We need to **vanish this from our society**

Current Stage of Development

- Mobile Application UI is completed
- Working over video clips streaming.
- Database is almost ready. (Just Need Finishing)
- Web Portal UI is designed and working over backend.
- Prototype of Hardware is completed.

Milestones

Hardware and Mobile App Development

Almost Completed

Testing of features with our mentors.

16th May 2020 – 15th June 2020

Gadget will be designed for production after proper feedbacks

16th June 2020 – 15th July 2020

Final Testing of our Product

16th July 2020 – 15th October 2020

Marketing and Distribution of our Product

15th October Onwards......

It's Time to count on our morals and make this country the best place to live in. No Fear, No Tears.

The Team



Utkrisht Agrawal

- IoT Expert (Hardware)
- Cloud and Alexa



Tanishq Bhalla

- Android Developer
- Firebase Expert



Abhinav Goyal

- Full Stack Web
 Developer
- Blockchain Geek

Technology Stack and Dependencies



Arduino

Microcontroller for Software interfacing with Hardware



WhatsApp

For Sending Notification to user



ESP8266

NodeMCU Wi-Fi Chip for Device to communicate.



Android Studio

Mobile App Development for Better User Interface



WordPress

Web User Interface Development



OLA

One Tap Ride Booking Feature



Firebase

For Application and Web Backend and Database Management



PubNub

Interfacing NodeMCU with Notification



Voiceflow

Hardware Integration of Amazon Alexa and Google Actions





Google Maps API
For detection of nearest

Vaccination Centre and Child Care Hospitals.



DjangoBackend Framework for our Web Portal.

