

# WOMEN'S SECURITY PORTAL

SAGAR SAINI<sup>1</sup>, SHAURYA SRIVASTAVA<sup>2</sup>,  
SHEFALI GAUTAM<sup>3</sup>, KULDEEP PASWAN<sup>4</sup>

*1* BTECH(pursuing), Department of Computer Science, Institute of Technology and Management(ITM),

*Gida, Gorakhpur, U.P, 273001, India*

*2* BTECH(pursuing), Department of Computer Science, Institute of Technology and Management(ITM),

*Gida, Gorakhpur, U.P, 273001, India*

*3* BTECH(pursuing), Department of Computer Science, Institute of Technology and Management(ITM),

*Gida, Gorakhpur, U.P, 273001, India*

*4* BTECH(pursuing), Department of Information Technology, Institute of Technology and Management

*(ITM),Gida, Gorakhpur, U.P, 273001, India*

## Abstract

*This web portal has been made to make her mindful of the monstrosities on ladies and their answer. The law for abominations on ladies inside our constitution can likewise be perceived from this web portal. After a lady is tormented, a lady turns out to be intellectually and truly upset, so tackle them with the assistance of specialists and mental mentors from this web portal. Any lady casualty can converse with our expert with the assistance of visit.*

*Any woman victim can talk to our consultant with the help of chat. Also, the women at home who think their husbands own them and possess the right of harming them any way possible are made to realize the truth.*

*The truth that women, in a marriage, is equivalent to men and that they have the relationship of equality where no one dominates the other. It isn't honestly ethically wrong but moreover constitutionally a crime. Through our technology women will also know what all our constitution has already provided for them that they are yet unaware of.*

**Key-Words:-** *Woman's Law, Women's Empowerment, Women's Security Training, Consultants.*

## 1. Introduction

Abusive behavior at home: The expression "abusive behavior at home" consists of extravagantly all styles of right maltreatment or threat of maltreatment of physical, sexual, verbal, enthusiastic and economic nature that could hurt, make injury, jeopardize the wellbeing, security, life, appendage or prosperity, each highbrow or physical of the bothered individual. The definition is massive to the issue of protecting teenager sexual maltreatment, provocation prompted to a girl or her very own family contributors thru unlawful share requests, and conjugal assault.

[1]This on-line interface has been made to make her privy to the monstrosities on ladies and their answer.. The law for monstrosities on girls indoors our constitution can likewise be perceived from this on line interface. After a girl is tormented, a girl appears to be intellectually and actually upset, so cope with them

with the assist of experts and highbrow mentors from this on line interface. Any girl casualty can speak with our manual with the assist of visit.

## 2.Related Work

### 2.1 Overview

[2]Fierceness towards girls isn't always altogether an end result of path family members that anticipates that guys need to be top-rated over girls. Given the inferior popularity of girls, a first rate deal of path violence is. contemplated everyday and values social approval. Dispatches of viciousness combine authentic aggression, almost same as blows of various power, becks, had a cross at hanging, sexual. abuse and attack, cerebral violence thru cuts,downsize, drive, intimidation, Gainful or active ensnarements, and manipulate over communicate and lead.. In absurd, but all of the equal not. darkish cases, passing is the end result. (Adriana, 1996) These statements of ruthlessness take. region in a man-lady dating in the own circle of relatives, country and society. Overall,. neighborhood enmity closer to girls and youngsters, as a result of exceptional motives live surrendered.

Social and social elements are associated with the improvement and multiplication of savage geste. With exclusive styles of socialization that people persevere, guys absorb damaged down path spots of authority and manage, while. girls absorb that of convenience, dependence and admire for power. A womanish adolescent grows up with a constant sensation of being feeble and requiring protection, whether or not physical. social or useful. This weak point has provoked her maltreatment at basically each duration of life.

The personal family blends its people to recognize moderate circle of relatives participants conveyed in flimsy department of labor among the family members and command over the mission of coins chests. The own circle of relatives and its beneficial unit is wherein the teenager is brought to differentiations in sexual path considering the fact that birth, and of past due factor of truth earlier than birth, as family members confirmation .to foeticide and womanish youngster murder. The home, which should be the maximum dependable. region, is wherein girls are through and huge brought to violence.

### 2.2 Objective

- [3]The regulation for atrocities on ladies inside our Indian charter also can be understood from this internet portal
- After a lady is tortured, a lady turns into mentally and bodily disturbed, so remedy them with the assist of docs and intellectual running shoes from this internet portal.
- This internet portal has been created to make her aware about the atrocities on ladies and their solution.
- Any lady sufferer can communicate to our representative with the assist of chat.

### 3. Literature Review

**Sutar Megha et al [8]**, The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 is a legislative act in India that seeks to protect women from sexual harassment at their place of work. Today women are playing an important role as a president, prime minister, speaker of the Lok Sabha and even in the field of aeronautics, military, IPS, IAS, etc. Even today women have achieved top positions in job and society, yet they are facing problems such as physical harassment and the sexual assault. The cases of harassment and rapes on women are increasing hence security issue for such woman is more important. So, it is essential to develop a system to provide security to women. In this he devised a system allows women to protect themselves from attackers.

In recent days the attacks on women are increasing and sometimes they are not even able to take their mobile and dial-up to police, this system will help women in such situations to inform about attacks and also in giving their exact location to a nearby police station for necessary action. In this, the author designed a device, in that, by pressing the button of the device a message along with her location will be transmitted by the system to the police station and her few relatives, so that they will get aware of her current situation. He told that with that message she is also for their defensive purpose they can able to give a shock to the attacker it will be more helpful to women at that critical situation, this system is designed as the defence equipment, it will them to attack the attacker. So, she has some time to rescue herself from that attacker.

this paper, the author proposed a device consists of LPC controller, GPS, ARM controller, GSM and shock circuit. Women under a dangerous situation can press the emergency button. So that, the location along with the helping message can be transferred to the emergency number. In addition, shock circuit is activated and the generated current shock can be imposed to the attacker. In this the Shock circuit can be operated by driving and isolator circuit. By these, any women can protect them from situations that can harm them.

**Anup CJ et al [9]**, The amount of violence against women has increased by many folds due to the greater exposure of women in every field of life. Women were previously restricted to the four walls of the houses and after globalization, they have got the chances and opportunities to stand equally in all sectors at compare with male. Women are now a day's cab drivers and they are also the CEO of top companies. It is a good sign that the patriarchal mindset of the society has changed to some extent but not to the extent it was supposed to. It is the same mindset that restricts women to go out and work making them as a tool for domestication. It is the same mindset that treats males as superior than female and always try to dominate the womenfolk. There are different kinds of tools that are being used by the male-dominated society to prove their domination over the female. Eve teasing, sexual harassment, rape, domestic violence against women are these weapons used by the male to display the male superiority. This is one of the prime reason violence is increasing in India and women safety is a concern in India.

In this paper, the author supposed to told a remedy to safeguard women from these situations by designing a gadget like a typical belt. This design consisting of GPS, GSM, Zapper, Buzzer circuit. When women feel unsecured, they can use the gadget which is having an emergency button. Controller in that activates the GPS, GSM in order to identify the location and to transfer the misery message to the trusted people and to the control room during the time of the attack with their exact location. Zapper circuit produce shock which has high voltage to give a non-deadly stun to the aggressor. Buzzer also gets activated which produces boisterous yelling sound to get nearby individuals for help. Hence, they are escaped from the danger.

**Shreyaasha chaudury et al [10]**, Safety of Women in India has become a major issue in India now. The crime rates against women in the country have only risen to a great extent. Women think twice before stepping out of their homes, especially at night. This is, unfortunately, the sad reality of our country that lives in constant fear. Women in India have been given equal rights as men; however, people do not follow this rule. They contribute to the growth and development of our country; still, they are living in fear. Women are now on respected positions in the country, but if we take a look behind the curtains, we see even then they are being exploited. Each day we read about horrific crimes being

committed against women in our country. In our daily life, where you don't hear the news of a crime against women in India. In fact, there are at least five news articles that tell us about the horrific details of the various crimes. It is extremely painful to watch the status of women's safety in India, especially in a country where

women are given the stature of goddesses. To avoid situations like this, in this the author designed a device with a sensor called IoT to protect women from danger.

In this paper, the author proposed an IoT (Internet of thing) based women safety device which connects devices to the internet using sensors and a suitable platform. This IOT sensor is placed on the health monitoring equipment's to monitor the patient's health condition. This monitors the status of the patient and sent to the doctor if they are in need of treatment. By this way, it is useful for the doctors and it avoids the risk in the patient's life.

**Snehal Lokesh et al [11]**, Violence against women and girls does not discriminate by race, religion, culture, class or country. Worldwide, one in three women have experienced either physical and/or sexual violence, and more than 15 million girls aged 15-19 years have experienced rape. Conflict and displacement only heighten the problem. As girls and women lose their support systems and homes, are placed in insecure environments and in new roles, their risk of gender-based violence (GBV), including sexual violence, intimate partner violence and child abuse increases day by day. Areas like streets, public spaces, public transport, etc. have been the territory of women hunters.

Every day and every minute some women of all walks of life (a mother, a sister, a wife, young girls, and girl baby children) are getting harassed, molested, assaulted, and violated at various places all over the country.

In this paper, the author proposed a system consist of android application, main device, and portable camera. Android application uses Phone GPS or GPS of the main device to locate the victim in the critical situation they were pressing the emergency button. The camera will be added through the photo will be captured and it will be sent to the server with ensure the data security, Main device is also attached with manually operating in pepper spray.

**Swati Sharma et al [12]**, safety for women become a matter of concern with the violence against the women will increases, in this system the GPS tracking and messaging system plays an important role. When women are going to travel somewhere for long distances at night time the GPS used as a GPRS location while travelling in the cab would be accessible and simultaneously her location will be immediately sent to their relative for their rescue. The main purpose of designing such a project is that we will make small, handy equipment, which could be kept in a purse. This equipment will be having a panic switch and as soon as the panic switch is pressed, the location coordinates provided by the GPS to the emergency. The panic switch is very small and it will easily handle with safe and secure from others and that is an easy way to do this. While press that switch an emergency/alert message about the victim location gets shared to the police control room and will be informed through the ease of the website.

In this paper, the author proposed a system which is designed with a small handy equipment which could be kept in the purse, when they are in the critical situation the button available in this device can be pressed and their location can be tracked by the police control room and their family members through the website.

**Junaid Mohammed et al [13]** this paper is built on the android app based on their mobile application for the health monitoring. They developed an application called ECG android app, which provides the user with the visualization of their Electro Cardiogram (ECG). waves and the data logging functionality in the background, the sorted data can be upload in the Wi-Fi cloud, which monitors the records of the future analysis for the person, by this idea will develop an internet of things and cloud techniques. The IOIO microcontroller, signal processing, communication protocols, secure and efficient mechanism of large file transfer, database management system and the cloud. ECG waves visualization on the Android App. The ECG waves were plotted by the data transmitted from the sensors on the IOIO via Bluetooth technology. ECG data logging on the Android App: The large amount of data received from the IOIO microcontroller is covered to a binary file which would contain all the data received and this file would be stored on the SD card of the mobile phone. This feature improves the performance and scalability. An Upload Service: The service uploads the files on the SD card of a device to a private centralized cloud using an FTPES secure server. The transfer of the file takes place using File Transfer Protocol over the Internet Protocol.

We have developed the ability to store unstructured data on a File system without causing any form of latency within the database using filletable and File stream technology in Microsoft SQL Server 2012. Multiple devices can pass ECG data to the server at the same time as the cloud has multi-user and multi-device support. File Compression and Security. The medical data is stored in a binary format which would be encrypted and uploaded to the cloud in a secure manner using FTPES protocol. The format is optimized for compact storage and faster byte parsing on the cloud which is later used for visualization with MATLAB or any signal

processing software.

In this paper, the author's proposed a system to monitors patient, ECG wave anywhere in the world using IOIO-OTG Microcontroller. For monitoring ECG, an Android application has been developed for the quick access. IOIO-OTG microcontroller is connected to android phone using USB cable. Using that android application, the collected data or ECG wave can be monitored and stored.

## 4. Planner Design

### 4.1 Modules

#### User / Victim Module

This module is made in particular to allow the user to interact with the portal. This module contains various UI utilities to provide user a better and more comfortable interaction with the portal.

The portal provides a user services like:-

- ✓ User Registration
- ✓ Find Law by Keywords
- ✓ File F.I.R
- ✓ Consult with Doctors for the mental trauma undergone by women that are victims of certain atrocities.
- ✓ Train themselves to be prepared physically and mentally to deal with situations in emergencies.

#### Admin Module

This module is made for administration purposes. It authorizes an individual or group of individuals to access the data provided and further the facilities as in the server side of the model. This module allows the modification of necessary features and monitors the activities of the portal. This module allows the following features:-

- ✓ Check User Data
- ✓ Update Keywords
- ✓ Manage Consultants
- ✓ Event Management

#### Consultant Module

This module allows a consultant or the trainees(experts) of the portal to enjoy certain extent of authorization as well as login credentials to perform their task variably. This module allows the following features:-

- ✓ Consult with user
- ✓ Organize Event
- ✓ Speech's & Lectures Update

### API Integration

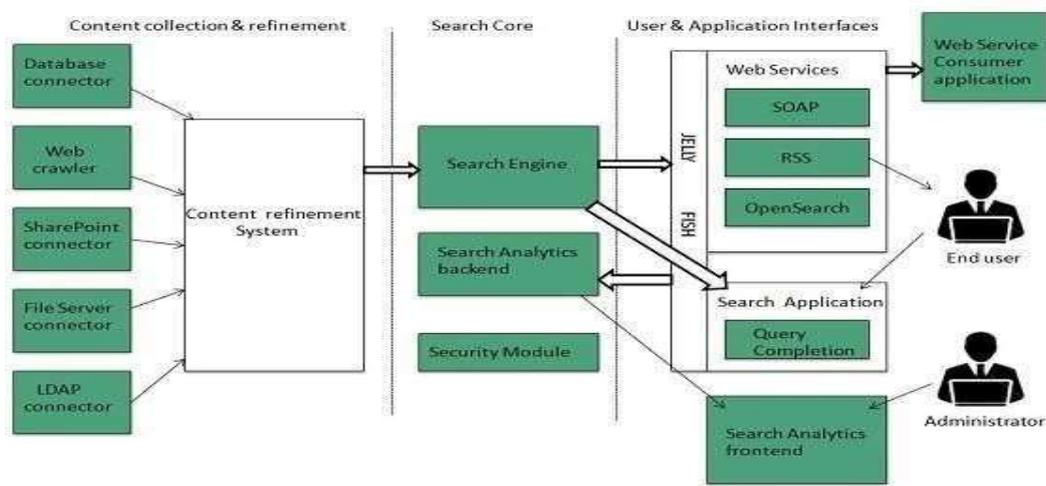
- ✓ Chat API
- ✓ Facebook & Gmail API
- ✓ SMS API
- ✓ E-Mail API
- ✓ Mailchimp API

**Android App Development**

- ✓ Web to App (Apk)

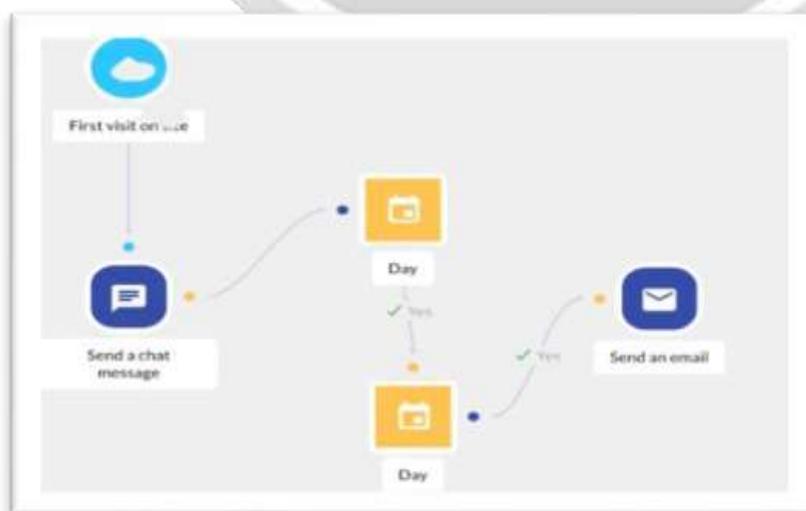
**4.2 Diagram of the Project**

**Keyword Search from Server**



**Fig. 1: Keyword**

**Chat API**



**Fig. 2: Chat API****Data Transfer in Chat****Fig. 3: Data Transfer****5. Woman's Security Panel Search Algorithm**

A couple of various approaches of doing this:

The quicker one (overall performance wise) is: `select * FROM Table where key-word LIKE '%value%'`. The trick on this one is the position of the % that is a wildcard, announcing both seek the entirety that ends or starts with this value.

A greater bendy but (slightly) slower one might be the REGEXP function:

`Select * FROM Table WHERE key-word REGEXP 'value'`

This is the use of the electricity of ordinary expressions, so that you ought to get as complicated as you desired with that. However, leaving as above offers you a "negative man's Google" of sorts, permitting the hunt to be bits and portions of standard fields.

**6. Preliminary Result**

A few tests were directed to evaluate the functionalities and adequacy of the electronic ladies' security. The tests were directed on the usefulness of the ladies' security arranging framework .

**Project Structure in SubLime (Text Editor)**

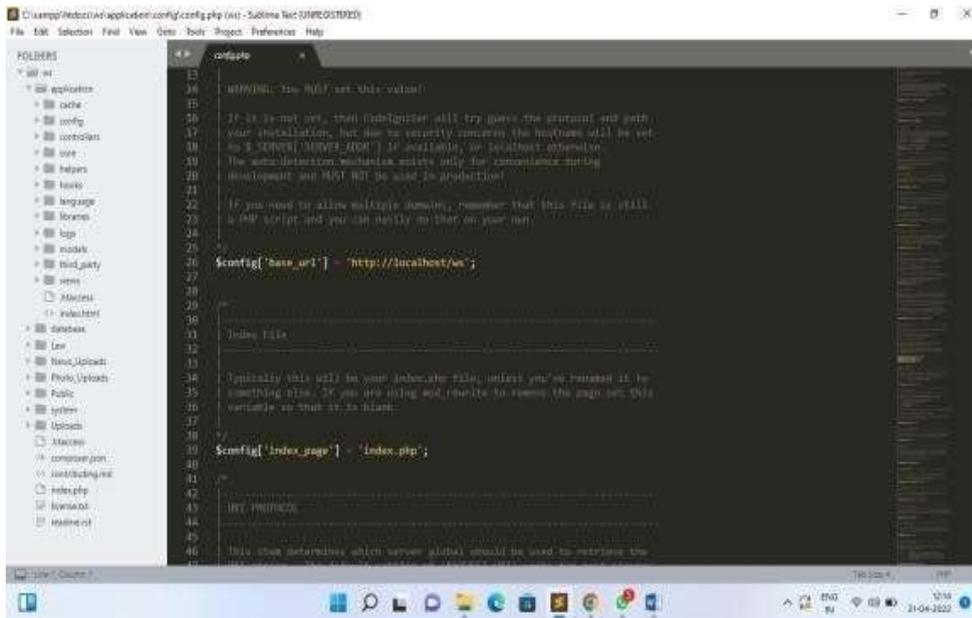


Fig. 4: Project Structure

### User Home Page

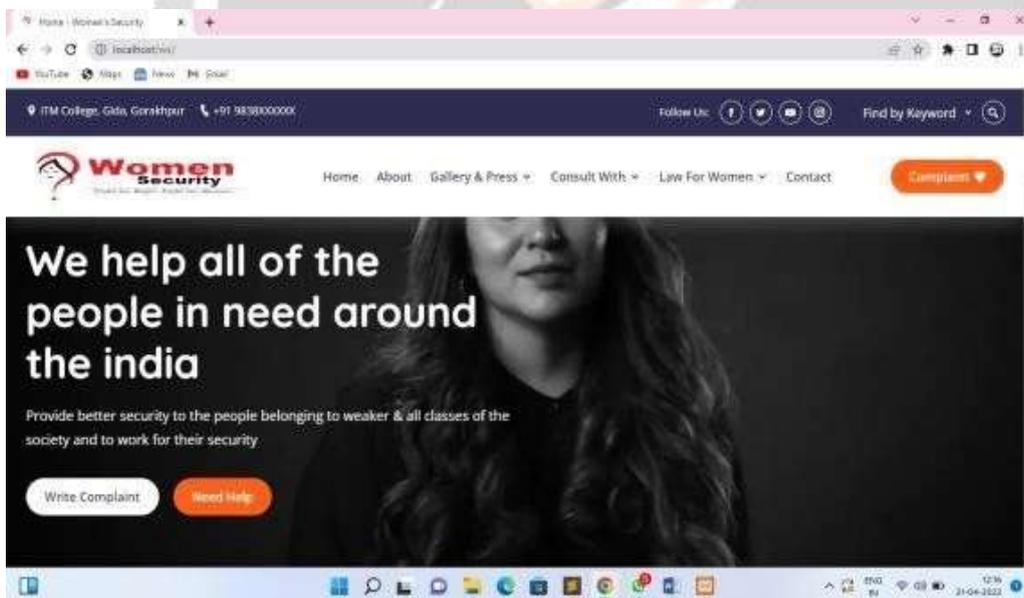
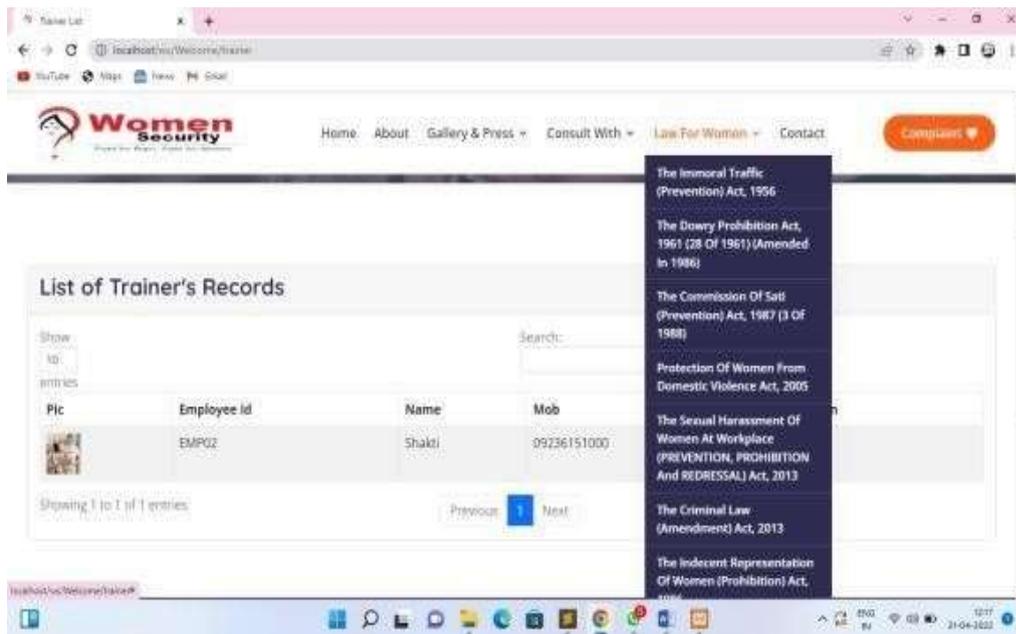


Fig.5: The User Interface

**List of Law Details for Women**



**Fig. 6: Law Details**

**Admin Dashboard**



**Fig. 7: Admin Interface**

**7. Conclusion and Future Work**

The law for monsters on women inside our Indian constitution can in like manner be seen from this online point of interaction. After a woman is tortured, a woman ends up being mentally and really steamed, so address them with the help of trained professionals and mental tutors from this online connection point. This internet based interface has been made to make her aware of the barbarities on women and their response. Any woman loss can chat with our master with the help of talk.

## 8. Acknowledgement

I would like to thank my project guide, HOD's, Assistant Professor/Associates Professors, Department of Computer Science & Engineering, Institute of Technology and Management, Gida, Gorakhpur, U.P. for their valuable guidance and suggestions. I am thankful for his continual encouragement, support, and invaluable suggestions from my guide. Without his encouragement and guidance, this project would not have been materialized. Throughout the writing of the project and research paper, I have received a great deal of support and guidance.

### References:

- [1] S. Vahini, N. Vijaykumar, *Efficient tracking for women safety and security using IoT*, *International Journal of Advanced Research in Computer Science*, Volume 8, No.,9, November-December 2017.
- [2] S. Sangeetha, P. Radhika, "Application for Women Safety", *IOSR Journal of Computer Engineering (IOSRJCE)*, Volume 17, Issue 3, Ver. IV (May – Jun. 2015), PP01-04.
- [3] Charlotte Bunch and Roxanna Carillo, "Global Violence against Women: The Challenge to Human Rights and Development" in Michael Klare and Yogesh Chandrani (eds.), *World Security: Challenges for a New Century*, third edition (New York: St. Martin's Press, 1998), p. 230
- [4] K. Beth Woroniuk, "Women's Empowerment in the context of Human Security", Bangkok, Thailand, December 7-8 1999.
- [5] Rajesh, M., and J. M. Gnanasekar. "Path Observation Based Physical Routing Protocol for Wireless Ad Hoc Networks" *Wireless Personal Communications* 97.1 (2017):1267-1289.
- [6] GeethaPratyushaMiriya, P.V.V.N.D.P Sunil, RamyaSreeYadlapalli, Vasantha Rama Lakshmi Pasam, Tejawikondapalli, AnushaMiriya, "Smart Intelligent Security System for Women", *International Journal of Electronics and Communication Engineering & Technology (IJCET)*, Volume 7, Issue 2, March-April 2016.
- [7] D.G. Monisha, M. Monisha, G. Pavithra and R. Subhashini, "Women Safety Device and Application-FEMME", *Indian Journal of Science and Technology*, Vol9 (10), March 2016.
- [8] TruptiRajendraShimpi, "Tracking and Security System for Women's using GPS & GSM", *International Research Journal of Engineering and Technology (IRJET)*, Volume: 04 Issue:07 | July-2017.
- [9] RashmiDeodhe, "WomanSecuritySystemByUsing Gps & Gsm", *International journal for engineering applications and Technology*, ISSN:2321-8134.
- [10] Thania Kumar, "My Kid: An Android Based Child Tracking System", *International Journal of New Technology and Research* ISSN: 2454-4116, Volume-2, Issue-5, May 2016

[11] Rohit N. Bhoi, "Child Tracking System On Mobile Terminal", *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 4, Issue 6, June 2015.

[12] Abid Khan, Ravi Mishra, "GPS-GSM Based Tracking System", *International Journal of Engineering Trends and Technology- Volume3 Issue2- 2012*.

[13] B.Vijaylaxmi<sup>1</sup>, Renuka.S<sup>2</sup>, Pooja Chennur<sup>3</sup>, "Self Defense System For Women Safety With Location Tracking And Sms Alerting Through Gsm Network", ISSN: 2319-1163 | pISSN:2321- 7308.

[14] Toney G, Jaban F, Puneeth

S. et al. "Design and implementation of safety armband for women and children using ARM7", 2015 *International Conference on Power and advance control engineering (ICPAE)*; Bangalore.2015 Aug 12-14. p.300–3.

[15] Chand D, Nayak S, Bhat KS, Parikh S. A mobile application for Women's Safety: WoS App. 2015 *IEEE Region 10 Conference TENCN*; Macao.2015Nov1- 4.p.1– 5.

[16]R. George, A. Cherian, A. Antony, H. Sebastian, M. Antony, "An Intelligent Security System for Violence against Women", *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-3, Issue-4, April 2014.

[17] George, AnjalyCherianV, AntonyA,et al." An intelligent security [18] system for violence against women in public places". *IJEAT*; 2014 Apr;3(4):64-8.

[18] Paradkar, Deepak Sharma, "All in one Intelligent Safety System for Women Security", *International Journal of Computer Applications (0975- 8887)* Volume 130- No.11, November 2015. 16.

[19] Jagori, UN Women, "Report of the Baseline Survey Delhi 2010", *Safe Cities Free of Violence Against Women and Girls Initiative*, 2011

[20] Ravinder Kumar, "Women Exploitation in Modern Society",*International Journal of Advance Research in Education Technology & Management*, vol. 2, no. 2, August 2014..

[21] Remya George, Cherian V Anjaly, Annete Antony, Harsha Sebastian, Mishal Antony, Babu T Rosemary, "An Intelligent Security System for Violence Against Women in Public Places", *International Journal of Engineering and Advanced Technology*, vol. 3, no. 4, April 2014.

[22] V.S. Akshata, Rumana Pathan, Poornima Patil, Farjana Nadaf, "B'Safe & B'Secure", *International Journal Of Core Engineering & Management (IJCEM)*, vol. 1,

no. 7, October 2014.

[23] D. Uma, V. Vishakha, R. Ravina, and B. Rinku, "An android application for women safety based on voice recognition," *International Journal of Computer Science and Mobile Computing*, vol. 4, issue 3, pp. 216-220, 2015.

[24] Magesh Kumar. S and Raj Kumar.M, "IPROB – Emergency application for women," *International Journal of Scientific and Research Publications*, vol. 4, issue 3, pp. 1-4, 2014.

[25] V. Pawar, Prof. N. R. Wankhade, D. Nikam, K. Jadhav and N. Pathak, "SCIWARS android application for women safety," *International Journal of Engineering Research and Applications*, vol. 4, issue 3 (version 1), pp. 823- 826, 2014

[26] B. K. Baishya, "Mobile phone embedded with medical and security applications," *IOSR Journal of Computer Engineering (IOSR-JCE)*, vol. 16, issue 3 (version IX), pp. 30-33, 2014.

[27] X. Shu, Z. Du, and R. Chen, "Research on mobile location service design based on android," *5 th International Conference on Wireless Communications, Networking and Mobile Computing 2009*, pp. 1-4, 24- 26 Sept 2009.

[28] S. Mohamed Ashiq and C. Manivelprabhu, "Design of electric shock antenna watch with automated sms facilities for women safety in india under government license," *International Journal of Emerging Technology and Advanced Engineering*, vol. 3, issue 3, pp. 575-577, 2013.

[29] J. Jeyakar, R. Venkatesh Babu, and K. R. Ramakrishnan, "Robust object tracking using local kernels and background information," *IEEE International Conference on Image Processing*, 2007.

[30] S. Mazhar Hussain and S. Jhani Bhasha, "Design of women safety system using RFID, 8051 microcontroller and GSM based Technology prototype," *International Journal of Advanced Research in Computer and Communication Engineering*, vol. 3, issue 6, pp. 6849-6850, 2014.