**LITERATURE SURVEY :**

Sutar Megha et al [1] 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 systemto 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.

Anup CJ et al [2] 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.

Shreyaasha chaudauryet al [3] 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 .

Snehal Lokesh et al [4] , 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.

Swati Sharma et al [5] , 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.

Junaid Mohammed et al [6] 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 microcontroller 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.

The paper [7] proposes an application called women empowerment. This application can be installed in the smart phones. This application has mainly three modules they are, Violence against Women (VAW), Women’s Health (WH), Emergency Call System (ECS). To use the above options user needs to sign in her/him only once. Different laws are included by VAW related to women. Crime related laws can be easily seen by user and take an appropriate decision to avoid crime which helps women to be conscious. It includes some cell number of lawyers and NGOs, where in the victim can access those numbers to get justice. WH includes women’s health issues related to breast cancer, breastfeeding, fitness and nutrition, issues related to HIV/AIDS, mental health, pregnancy, vaccines etc. As women of our country are mostly working and are not health conscious, this application helps them to record their physical changes and help them instead of going to the doctor frequently. This application not only takes care about the health but it also helps women in difficult environment or when a threat arises. Emergency Call System (ECS) which will be activated by the user. Initially a user has to set an emergency contact number and can also save templates. When users are in danger they just need to press a particular button then this system will make three successive calls and sends a text message which was previously saved to the present number. It also sends the location of the user using the Global Positioning System (GPS) in text message. Advantage of this app are unlike many other applications it not only just sends the location of victim to his/her family and the health related issues to women members but also helps in giving knowledge about the laws.

The paper [8] focuses on a security system that is designed merely to serve the purpose of providing security to women so that they never feel helpless. This paper talks about all the devices that are already developed for women safety such as, SHE (Society Harnessing Equipment): This device can generate 3800KV and provide electric shock to the victims, ILA security: It includes three alarms which can provide shock, disorient potential attacker, AESHS (Advanced Electronics System for Human Safety): it includes GPS module, Smart Band: It consists of a smart band module that contains Bluetooth low energy (BLE), motion sensors, Pulse rate sensors, temperature sensor. Smart band does 3 things, firstly Messages to family along with co-ordinates are sent, secondly the location is sent to nearest police station and at last it sends information to people near the surrounding requesting public attention. Advantages of this smart band are it uses many different sensors and hence it can be truly effective and trustworthy. It is integrated with smart phone hence low cost and it uses BLE (Bluetooth Low Energy) therefore power consumption is less.

The paper [9] proposes a concept of portable equipment which can be carried by the women which consists of a GPS, GSM model, LCD display and a physical button. This equipment is designed using the ARM 7 micro controller LPC2148. The advantages of this equipment is it consumes low power as it uses arm controller which are more efficient in the present days, it also includes notifying the related authority for taking necessary actions on the culprits. This system can be made much better by installing a camera so that the culprits can be easily captured.

The paper [10] conducts a survey of 10 papers which are on women safety and security. It categorizes the technologies used in the papers into three categories and list outs the disadvantages of all and proposed a model which included the features of all the technologies and added few more to them to overcome disadvantages and provide a better security system for the women. The proposed model included.

i)Auto receiving call module - it helps to receive the call from registered contacts on the victim's safety device.

ii) Spy camera detection module - which helps to detect the spy cameras in the changing rooms of shops and other places.

iii)Fake call Tool Module- which helps in creating a fake incoming call which in turn helps women to escape from a bad situation, it acts like a precautionary measure.

iv)Generate Electric Shock module - it helps in creating a high voltage electric shock which acts as a self-defence device when women is in a threat.