International Journal of Research (IJR) Vol-1, Issue-9, October 2014 **ISSN 2348-6848**

Women Security by Usage of Touch Screen Process

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ABSTRACT:-

Women security by usage of touch screen is basically a technique in which we can save the women from being getting harassed. This trend is different from the above trends in market. It basically uses very keen sensitive devices such as sensors, mind processors, touch screen, alarm, Wi-Fi adjusted signals, battery etc. The devices are such made that the intentions of one's brain are processed. This device is so made to rectify the error done by other security devices. The sensors detect the sensations when somebody touches the women. Then, the detected sensation is proceeded to the mind processors which processes the detected touch whether the touch is in which way that is whether it responds in the positive or in negative approach. If the touch is detected to be in the negative approach then the further procedure to stop the harassment is done or else the work stops that is if the person is detected as culprit a battery source provides current to him which at least unconscious him for a mean time and GPS connectivity calls the police station and an alarm clock is also placed which raises the crowd near the accident.

Introduction:-Touch screen or basically the touch activated technology which has been around for a few decades now, but only recently there prices have been dropped and the technology been somehow perfected. As an input device touch screens offers a more natural interaction that humans are predicted to use, which offers a great advantage for businesses selling to the general public over traditional keyboards and mousse. The goal for this system is to use a 4-wire resistive touch screen as an input device, and to output the current X and Y coordinate being touched to an LCD output device. A microcontroller will be used to control the outputs to the touch screen and to understanding the inputs from it as well. Similarly, the microcontroller will drive the LCD with the current X/Y outputs sensed from the touch screen.

The output LCD we will use will be a 16x2 character segment LCD. It uses the HD44780 interface so the LCD module is completely self-contained. The touch screen we will use is a generic 4-wire resistive touch screen that I found at an electronics surplus store. These types of touch screens are very common now and also very cheap. A PIC 18F452 microcontroller will be used for driving the output and understanding the input.

Technical Aspect:-

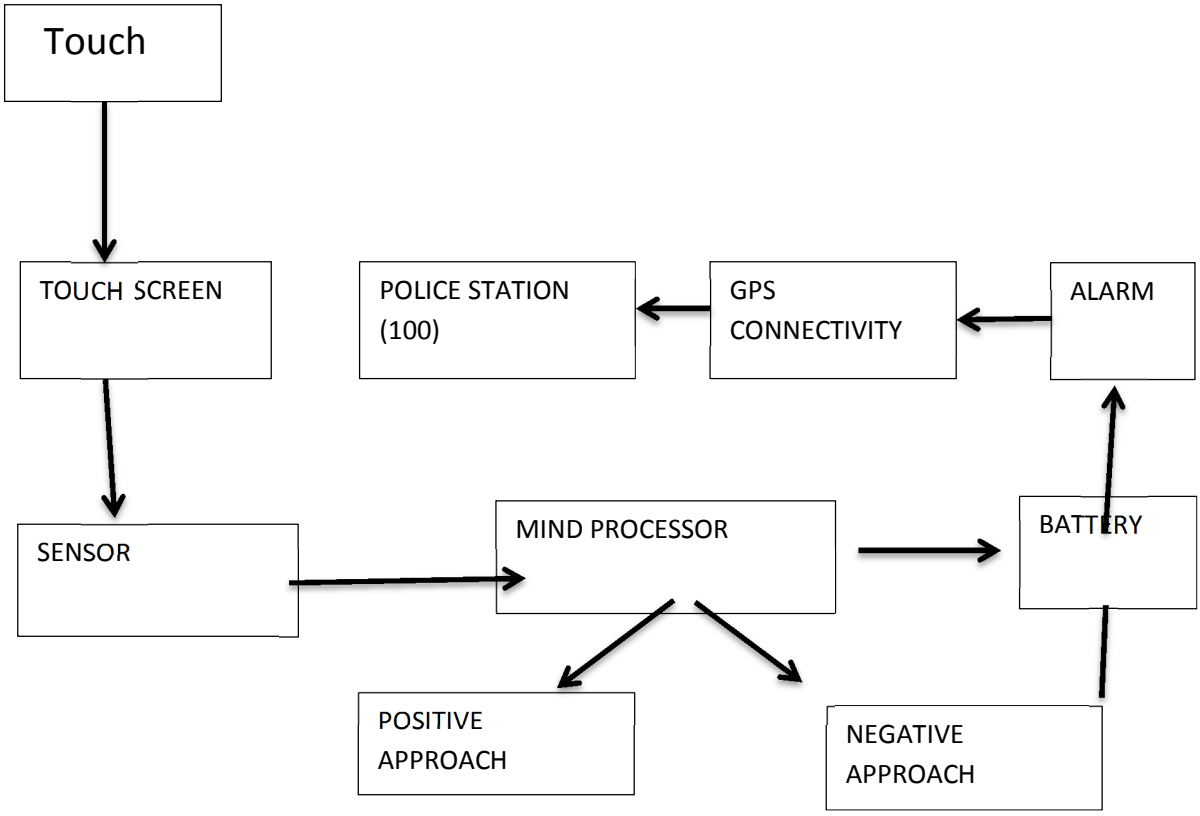
(a) Touch screen: - Touchscreen is basically an electronic visual display which the user can control itself simply through by using the multi-touch gestures by touching the screen with a stylus pen or with fingers. Some touchscreens can be touched by using an ordinary or specially coated gloves to work while others use a stylus pen only. Users can use the touchscreen in order to react to what is to be displayed and to control how it is displayed .The touchscreen enables the user to interact directly with what is displayed rather by using a mouse, touchpad, or any intermediate device (other than a stylus, which is optional for most modern touchscreens).Touchscreens are commonly used in devices such as game consoles, all-in-one computers, tablet computers, and smartphones. They can also be attached to computers or, as terminals, to networks. They also play a prominent role in the design of digital appliances such as personal digital assistants (PDAs), satellite navigation devices, mobile phones, and video games and some books (Electronic books).The popularity of smartphones, tablets, and many types of information appliances is driving the demand and acceptance of common touchscreens for portable and functional electronics. Touchscreens are found in the medical field and in heavy industry, as well as for automated teller machines (ATMs), and kiosks such as museum displays or room automation, where keyboard and mouse systems do not allow a suitably intuitive, rapid, or accurate interaction by the user with the display's content. Historically, the touchscreen sensor and its accompanying controller-based firmware have been made available by a wide array of after-market system integrators, and not by display, chip, or motherboard manufacturers. Display manufacturers and chip manufacturers worldwide have acknowledged the trend toward acceptance of touchscreens as a highly desirable user interface component and have begun to integrate touchscreens into the fundamental design of their pr.

A touch screen sensor is a clear glass panel with a touch responsive surface. The touch sensor/panel is placed over a display screen so that the responsive area of the panel covers the

viewable area of the video screen. There are several different touch sensor technologies on the market today, each using a different method to detect touch input. The sensor generally has an electrical current or signal going through it and touching the screen can cause a voltage or signal change. This change is used to determine the location of the touch to the screen.

(b) Microprocessor: - A **microprocessor** incorporates the functions of a computer's central processing unit (CPU) on a single integrated circuit (IC), or at most a few integrated circuits. All modern CPUs are microprocessors making the *micro-* prefix redundant. The microprocessor is a multipurpose, programmable device that accepts digital data as input, processes it according to instructions stored in its memory, and provides results as output. It is an example of sequential digital logic, as it has internal memory. Microprocessors operate on numbers and symbols represented in the system. The advent of low-cost computers on integrated circuits has transformed modern society. General-purpose microprocessors in personal computers are used for computation, text editing, multimedia display, and communication over the Internet. Many more microprocessors are part of embedded systems, providing digital control over myriad objects from appliances to automobiles to cellular phones and industrial process control. Intel introduced its first 4-bit microprocessor 4004 in 1971 and its 8-bit microprocessor 8008 in 1972. During the 1960s, computer processors were constructed out of small and medium-scale ICs—each containing from tens of transistors to a few hundred. These were placed and soldered onto printed circuit boards, and often multiple boards were interconnected in a chassis. The large number of discrete logic gates used more electrical power—and therefore produced more heat—than a more integrated design with fewer ICs. The distance that signals had to travel between ICs on the boards limited a computer's operating speed. In the NASA Apollo space missions to the moon in the 1960s and 1970s, all onboard computations for primary guidance, navigation and control were provided by a small custom processor called "The Apollo Guidance Computer". It used wire wrap circuit boards whose only logic elements were three-input NOR gates. The integration of a whole CPU onto a single chip or on a few chips greatly reduced the cost of processing power. The integrated circuit processor was produced in large numbers by highly automated processes, so unit cost was low. Single-chip processors increase reliability as there are many fewer electrical connections to fail. As microprocessor designs get faster, the cost of manufacturing a chip (with smaller components built on a semiconductor chip the same size) generally stays the same.

BLOCK DIAGRAM: -



Conclusion: -

As discussed above, it is clearly inspected about the project that is "Women security using touch screen". It concluded from the part that this is the newly trend available in the market. The resources used in this project are easily available in the market at a low price rate. Hence it would be comfortable for the generation to use this device. As it is clearly known to all that there is at every beck and call for such device which would make the women safe and secure. At last, the conclusion becomes that Women security by usage of touch screen is basically a technique in which we can save the women from being getting harassed by using very keen sensitive devices such as sensors, mind processors, touch screen, alarm, Wi-Fi adjusted signals, battery etc. The devices are such made that the intentions of one's brain are processed. This device is so made to rectify the error done by other security devices. The sensors detect the sensations when somebody touches.

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