

# Women Safety Jacket with Smart Safety Protocol and Screaming Sensor

## A Smart Jacket for Womens Safety

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**Abstract**—This Project Depicts About A Dedicated Security Framework For Women. Women Everywhere Throughout The World Are Confronting A Lot Of Dishonest Physical Provocation. This Gets A Quick Pace Because Of Absence Of A Reasonable Reconnaissance Framework. Our Motivation Is A Dare To Determine This Issue. We Are Utilizing Two Articles Pullover Coat And Ring That Are Utilized In Everyday Life. The Framework Takes After A Camera On The Coat Consolidated With A Catch As An Info Which When Actuates Shows The Outcome And With The Assistance Of Shouting Sensors The Framework Gets Enacted. Electrical Stun Circuit Are Forced For Self-Protection Reason And Camera Film And Area Subtleties To The Crisis Contacts. Electric Stun And Live Picture Is Caught Utilizing Camera Is Fused In The Coat That Go About As A Weapon Of The Shrewd Innovation. We Truly Accept That This Undertaking Will Have Any Kind Of Effect In The Women Life

**Keywords**—Raspberry Pi 3b, Iot, Cloud, Shock Ring, Camera, Jacket Computer

### I. INTRODUCTION

The Principle Goal Of Undertaking Is To Plan A Wearable Coat To Guarantee Women Security, Which Acts A Key Concerned Factor For Our Country. Since Most Recent Couple Of Decades The Status Of Women In India Has Been Experiencing Part Of Changes. To Remain Some Portion Of Quick Life Women Likewise Works A Ton To Endure And Bolsters Their Family. Since Antiquated Time The Historical Backdrop Of Women Have Has Been Momentous. They Work At Better Places Like Bpo's, Call Focuses, It Firms, Thus Numerous Spots Like It. Despite The Fact That Women Have Obtained Top Situation In Employment And Society Including That Of The Leader Of India, Prime Pastor, Leader Of The Opposition And Speaker Of The Lok Sabha, Yet Today Women As Yet Confronting Numerous Social Difficulties In India And Are Regularly Exploited People To Brutal Violations. In Worldwide Situation, The Prime Inquiry In Each Young Lady Mind Is About Her Security And The Provocation Issues. The Main Idea Frequenting Each Young Lady Is The Point At Which They Will Be Capable Move Openly To The Roads Even In Odd Hours Without Agonizing Over Their Security. There Is A Genuine Need To Stop This With The Goal That Women Can Have A Sense Of Security And Verified Over The Working Environment Or Anyplace They Go. Thomson Reuters Had Said That, As Indicated By Worldwide Survey, India Is The Fourth More Awful Nation On The Planet And The Perilous Nation For Women Among

Growing 20 Nations. Step By Step The Attacks On Women Are Expanding And For Some Situation She Isn't Even Ready To Take Her Versatile And Dial Up To Relatives, This Framework Will Help Women In Such Cases To Advise About Assaults And Furthermore In Giving Her Definite Area To Their Watchman And Companions For Important Activity. This Task Centers Around A Security Framework That Is Structured Exclusively To Effectively Provide Security And Wellbeing To Women With The Goal That They Never Feel Defenseless While Confronting Such Social Challenges. This Undertaking Presents A Bound Together Blend Of A Wearable Coat At Ideal Outcomes With The Base Equipment Parts And Versatile Innovation With An Electric Stun Circuit, To Help The Injured Individual In Any Sort Of Crisis Circumstance.

### II. BASIC CONCEPTS/ TECHNOLOGY USED

To Achieve Our Objective We Have Come Up With A Jacket Which Comprises Of A Camera, Screamer Sensor, Gps Tracker, Shock Ring. Whenever Women's Wearing This Jacket Are Travelling Late Night, Lonely Street Or Any Situation Where She May Need Self-Defense She Can Activate This Jacket's Safety Mechanism By Pressing The Button Allotted In The Jacket Or By Screaming. In Some Situation The Women Cannot Press The Button So This Jacket Comprises A Human Voice Based Recognizing Screaming Sensor Which Activates The Safety Mechanism Of The Jacket Whenever A Women Screams. The Main Safety Mechanism Comprises Of A Shock Ring. The Shock Ring Which Is Similar To A Finger Ring Is Been Connected To Shock Circuit Which Can Give Mild Pulse Of Electric Shock For Self-Defense Purposes Also Whenever A Person Who Is Harming Comes In Contact With This Ring Gets An Electric Shock. This Provides The Women An Opportunity To Escape From That Situation. There Is Also A Buzzer To Let To Know People For Help. The Camera And Gps Tracker Is Coupled With Iot So An Sos (Emergency Message) Message With Gps Position And Situational Awareness Pictures Captured From The Camera Which Is Placed In The Jacket Can Be Sent To The Person Whose Address Is Linked To The Computer System Of The Jacket. As The Data Is Been Clouded By Iot It Help Police To Take Action Against Criminals Also As Proof To File A Case Against Accusers.

III. STUDY OF SIMILAR PROJECTS OR TECHNOLOGY\ LITERATURE REVIEW

Security Is Most Significant Factor For Wellbeing Of Women. Today Women Require Help For Their Wellbeing So There Is Requirement For Building Up A Convenient Framework For Women Security. As Of Late Existing Security Framework For Women Is As Per The Following: She (Society Harnessing Equipment): Three Specialists Structured A Garments Which Has Electric Circuit. 380 V Of Current Is Produced By Circuit. It Will Produce Electric Stuns Which Will Assist Women With Getting Recue From The Circumstance If There Should Arise An Occurrence Of Various Assaults It Can Send Up To 82 Electric Stuns. It Won't Hurt The Women (Client) In Light Of The Fact That The Apparel Is Comprised Of Two Layers. Vithu App: This Is A Crisis Application Started By A Mainstream Indian Wrongdoing Tv Arrangement "Gumrah" Disclosed On Channel [V]. At The Point When The Power Catch Of The Smartphone Is Squeezed Twice Continuously, It Starts Sending Ready Messages With A Connection Of The Area Of The Client At Regular Intervals To The Contacts. Keen Belt: This Framework Is Structured With A Versatile Gadget Which Looks Like An Ordinary Belt. It Comprises Of ' Arduino Board', Shouting Alert And Weight Sensors. At The Point When The Threshold Of The Weight Sensors Crosses, The Gadget Will Be Actuated And Send An Alarms Asking Help. Ila Security : The Fellow Benefactor Of This Framework, Have Planned Three Individual Alerts That Can Stun And Muddle Potential Aggressors And Thus Defend The Injured Individual From Risky Circumstance. The Primary Disadvantage Of These Applications And Administrations Is That The Underlying Activity Must Be Activated By The Injured Individual Which Frequently In Circumstance Like These Doesn't Occur. So The Accentuation Is To Assemble An Answer That Works Self-Sufficiently In Circumstances Experienced. We Got Thought Of Remembering Signal For Framework To Catch Eye Of Close By Individuals With The Goal That She Will Find Support From Them. The I Safe Application Portrays That At Whatever Point The Women Is In Peril By This Application On Versatile The Contacts Saved Money On Her Versatile Get Her Area And Furthermore A Message That She Is At Serious Risk. Today Request Is To Be Sheltered And Secure. So The Women Need A Contraption Which Is Little In Measure And Can Be Conveyed Effectively With Her Which Help Her In The Wrongdoing Episodes.

IV. PROPOSED MODEL

To Achieve Our Objective We Have Come Up With A Jacket Which Comprises Of A Camera, Screamer Sensor, Gps Tracker, Shock Ring. Whenever Women's Wearing This Jacket Are Travelling Late Night, Lonely Street Or Any Situation Where She May Need Self-Defense She Can Activate This Jackets Safety Mechanism By Pressing The Button Allotted In The Jacket Or By Screaming.

In Some Situation The Women Cannot Press The Button So This Jacket Comprises A Human Voice Based Recognizing Screaming Sensor Which Activates The Safety Mechanism Of The Jacket Whenever A Woman Screams.

The Main Safety Mechanism Comprises Of A Shock Ring. The Shock Ring Which Is Similar To A Finger

Ring Is Been Connected To Shock Circuit Which Can Give Mild Pulse Of Electric Shock For Self-Defense Purposes Also Whenever A Person Who Is Harming Comes In Contact With This Ring Gets An Electric Shock. This Provides The Women An Opportunity To Escape From That Situation. There Is Also A Buzzer To Let To Know People For Help.

The Camera And Gps Tracker Is Coupled With Iot So An Sos( Emergency Message) Message With Gps Position And Situational Awareness Pictures Captured From The Camera Which Is Placed In The Jacket Can Be Sent To The Person Whose Address Is Linked To The Computer System Of The Jacket. As The Data Is Been Clouded By Iot It Help Police To Take Action Against Criminals Also As Proof To File A Case Against Accusers

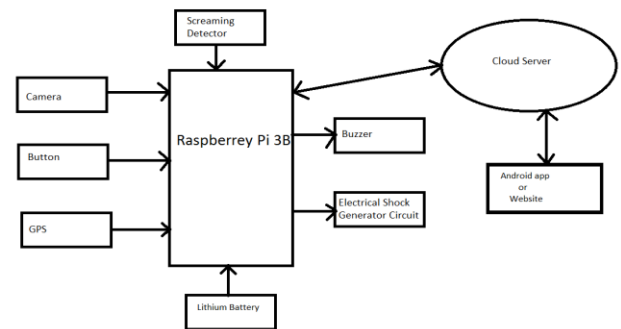


Fig: Block Diagram Of Entire System

V .IMPLEMENTATION AND RESULTS

- Our Project Ensures Safety Of Women In Critical And Unethical Situation.
- This Is Expected To Increase The Confidence And Safety For Women's Whenever They Are Travelling And Also Whenever They Are Vulnerable To Such Harassment Situations.
- This Is Going To Ensure Women Safeties For Modern And Developing India.

VI .CONCLUSION

The Proposed Task Presents Planning About The Basic Issues Looked By Women At Present Days When She Is In Peril Zone. Also, She Can Make Salvage Of Herself In Peril Circumstances. What's More, This Circuit Will Use To Expel Or Diminish The Pressure Of Young Lady When She Strolls Alone Around Evening Time Hour Moreover. What's More, Help To Unravel Them Innovatively With Minimized Gear And Thoughts. In The Framework It Incorporates Components Like Tear Stun Discharge, Shouting Cautions, Images And Furthermore Alarming And Sending The Messages With The Area. This Framework Can Conquer The Dread That Panics Each Lady In The Nation About Her Wellbeing And Security. It Is Anything But Difficult To Deal With And Gives Generally Excellent Unwavering Quality With A Snappy Reaction.

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