

KUMARAGURU COLLEGE **OF TECHNOLOGY**

Coimbatore

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INTRODUCTION

PROJECT OVERVIEW:

Nowadays, the crime rate associated with children keeps increasing due to which draws peoples' attention regarding child safety. This research is conducted to propose a child security smart band utilizing IoT technology. Some previous studies have been included for designing the IoT-based child security smart band. Child tracker helps the parents in continuously monitoring the child's location. They can simply leave their children in school or parks and create a geofence around the particular location. By continuously checking the child's location notifications will be generated if the child crosses the geofence. Notifications will be sent according to the child's location to their parents or caretakers. The entire location data will be stored in the database.

PURPOSE:

- The GPS coordinates of the child will be sent to the IBM IoT platform
- Location can be viewed in the Web Application
- A parent can create a geofence in the web application
- The web application will check if the child is inside or outside the geofence
- Notifies the parents if the child goes out of the geofence

LITERATURE SURVEY

EXISTING PROBLEM:

As more crimes against children are being recorded today, child protection and monitoring are key concerns. A smart IoT device for child safety and tracking is created with this purpose in mind, assisting parents in finding and keeping an eye on their kids. A child tracker makes it easier for parents to keep an eye on where their child is at all times. They can simply set up a geofence around a specific location and leave their children at parks or schools. If the child crosses the geofence, notifications will be generated by continuously checking their location. Depending on where the child is, notifications will be sent to their parents or guardians. The database will hold all of the location data.

REFERENCES:

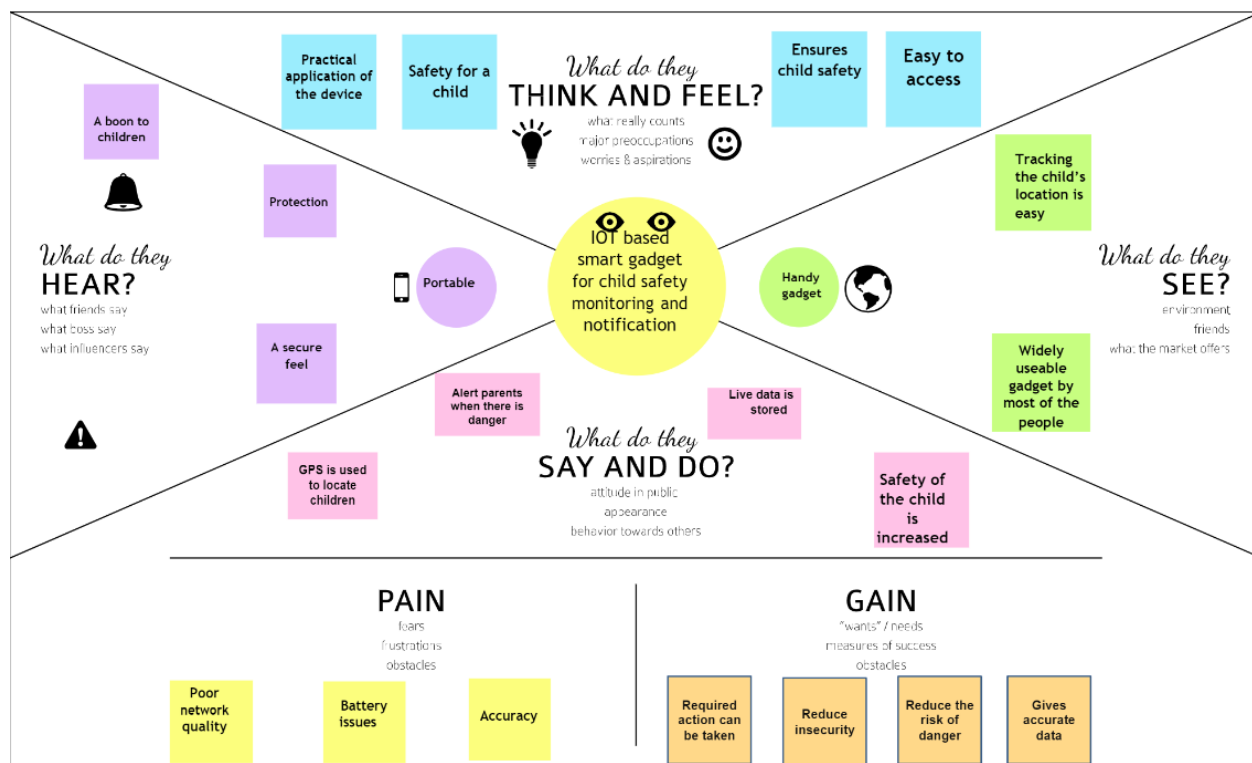
- [1] M Nandini Priyanka, S Murugan, K N H Srinivas, T D S Sarveswararao, E Kusuma Kumari “Smart IOT Device for Child Safety and Tracking”
- [2]N. Manjunatha, H. M. Jayashree, N. Komal, K. Nayana “ IoT Based Smart Gadget for Child Safety and Tracking”
- [3] N. Senthamilarasi, N. Divya Bharathi, D. Ezhilarasi, R.B. Sangavi “Child Safety Monitoring System Based on IoT”
- [4]Lai Yi Heng, Intan Farahana Binti Kamsin “ IoT-based Child Security Monitoring System”
- [5] M Nandini Priyanka, S Murugan, K. N. H. Srinivas, T. D. S. Sarveswararao, E. Kusuma Kumari” Smart IoT Device for Child Safety and Tracking” Published in 2019 IEEE.

PROBLEM STATEMENT DEFINITION:

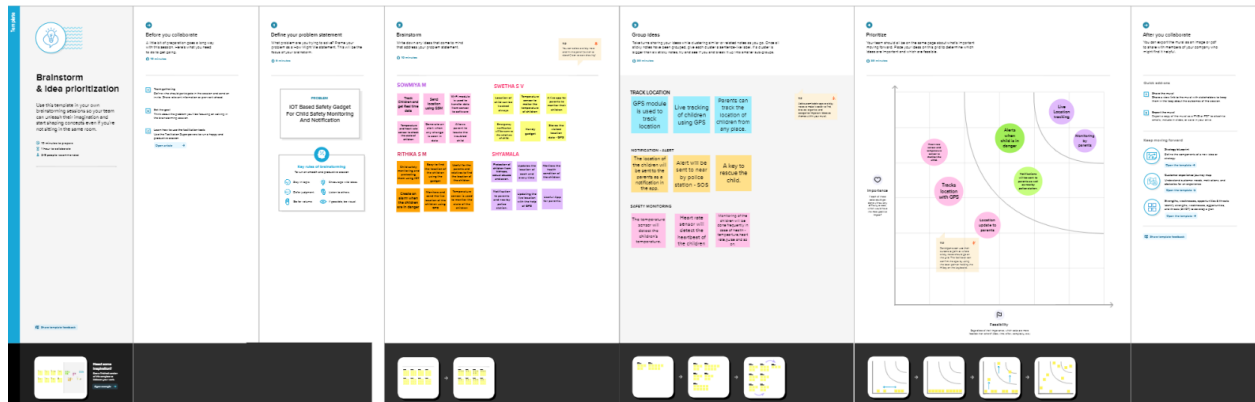
To reduce the increasing crime against children Smart gadget device is used to connect to parents so that they receive data on gadgets via GSM module, also a wireless technology is implemented on device which is useful to bind the device within a region of monitoring range, if device is moving out of monitoring range then an alert will be triggered on binding gadget. Health monitoring system on gadgets checking for parameters like heart beat/pulse rate and temperature is included which can be monitored by parents.

IDEATION AND PROPOSED SOLUTION

EMPATHY MAP CANVAS:



IDEATION AND BRAINSTORMING:



PROPOSED SOLUTION:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Nowadays parents are under work pressure and they can't take care of their children properly. Even crimes are rapidly increasing in today's world so children's safety is being a big question mark.
2.	Idea / Solution description	A Gadget is to be developed for tracking the children's live location and uploading the information periodically in the IOT cloud. If any problem is detected the children's live location will be send to their parents.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ● Uses GPS for tracking location ● Send's alert to the parents ● Alert will be sent to nearby police station
4.	Social Impact / Customer Satisfaction	It will widely help the parents to know their child's location and they can ensure their safety.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ● Easy to use ● Low cost ● Compatible
6.	Scalability of the Solution	Gadgets ensure the safety of the children and even parents no need to worry about their child.

PROBLEM SOLUTION FIT:

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Guardians and Parent	6. CUSTOMER CONSTRAINTS CC Easy to use , handy gadget and low cost	5. AVAILABLE SOLUTIONS AS SOS & Geofence	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE / PROBLEMS J&P To alert parents through the notification from the Application. To manage network connectivity and security.	9. PROBLEM ROOT CAUSE RC Increasing in crime Work pressure for parents	7. BEHAVIOUR BE Tracking the children with respective GPS which will be tracked through the gadget and informations will be sent to the parents.	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS TR <ul style="list-style-type: none"> News Crimes Fear of leaving their child alone 	10. YOUR SOLUTION SL <ul style="list-style-type: none"> Using various sensors to check the health of the children and track their movement using GPS. The data is transferred from sensors to the Wi-Fi module and it is stored in a software known as Thing speak . If there is any emergency it sends an alert to their parents. 	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE <ul style="list-style-type: none"> Thingspeak software GPS module for location tracking 8.2 OFFLINE <ul style="list-style-type: none"> Sensors Microcontrollers 	Identify strong TR & EM
	4. EMOTIONS: BEFORE / AFTER EM <ul style="list-style-type: none"> Parents feel insecure when they cannot look after their children during their work hours. When they have a product like a smart gadget it makes them feel relieved from this stress as they can monitor their children all time. 			

REQUIREMENT ANALYSIS

FUNCTIONAL REQUIREMENT:

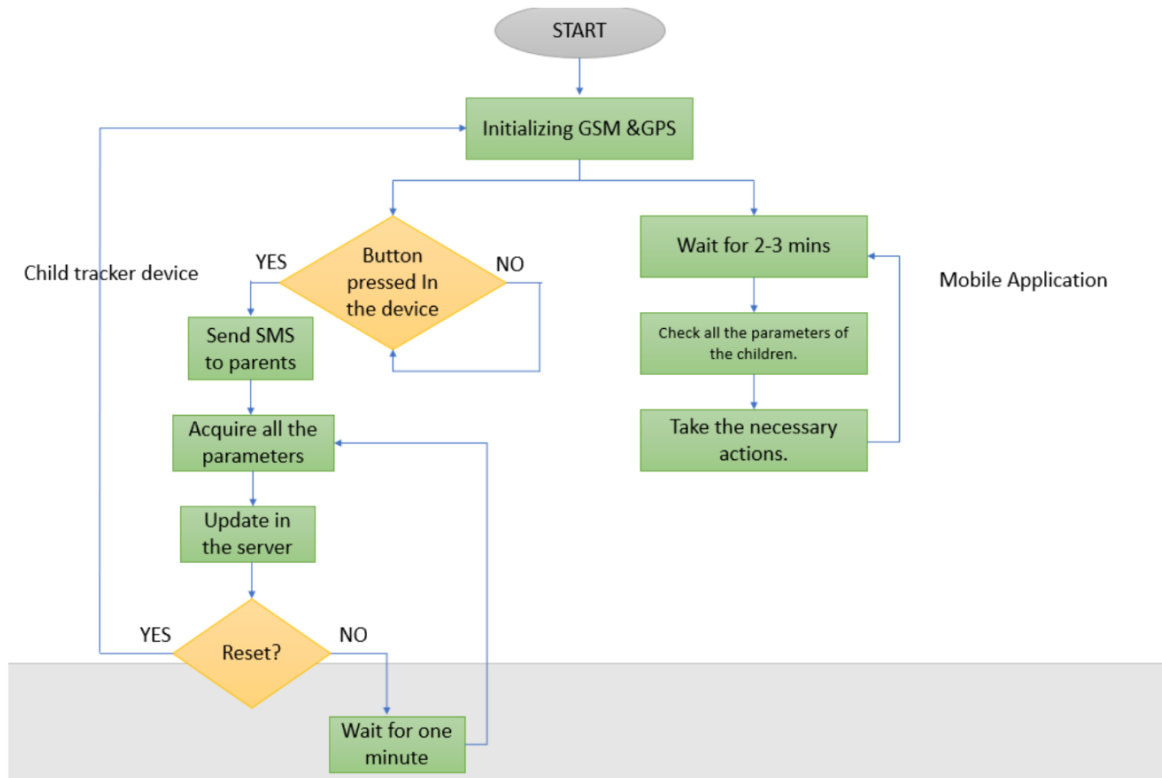
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Mobile Application or Registration through Web Application
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User login	Setting User ID and password
FR-4	Permission for Accessing the Application	Grant the permission for location,contact,images and media(audio).
FR-5	User information	Entering the information of the child like name,age etc.
FR-6	Permission for sending alarm	Permission should be given to send the live location and an alarm to the family in case of emergency
FR-7	User Authorization levels	Only authorized user can access
FR-8	Security	Notification for identity confirmation is sent via mail

NON FUNCTIONAL REQUIREMENT:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The device is user-friendly and portable to use.
NFR-2	Security	Security of the device should be ensured regularly using a security application
NFR-3	Reliability	An update will be given if any bugs or errors are found in the Application.
NFR-4	Performance	The device storage capacity and battery performance should be monitored periodically
NFR-5	Availability	Device should be available always with fully charged to undergo emergency conditions
NFR-6	Scalability	Works good in all conditions

PROJECT DESIGN

DATA FLOW DIAGRAM:



SOLUTION AND TECHNICAL ARCHITECTURE:

Features in device:

- 1. ALARM RING:** The safety system redirects a warning to the phone at any occasion, it determines any pursuit. Arming methodology decides which category of alerts to get.
- 2. EMERGENCY NOTIFICATION:** An emergency notification system is a labor-saving mechanism to get in touch with a group of people within a corporation and assign salient information during a crisis.

3. GPS: The GPS helps to escalate the protection and fitness characteristics on the device. Depending on the device, it can alert parents about their child's location in case of any crisis and helps to trace their route duration and distance.

SOLUTION REQUIREMENTS:

The requirements of this project are,

- Watson Cloud workspace for depository and APIs
- The front end by XML for android
- Python framework
- Node Red platform

IMPLEMENTATION:

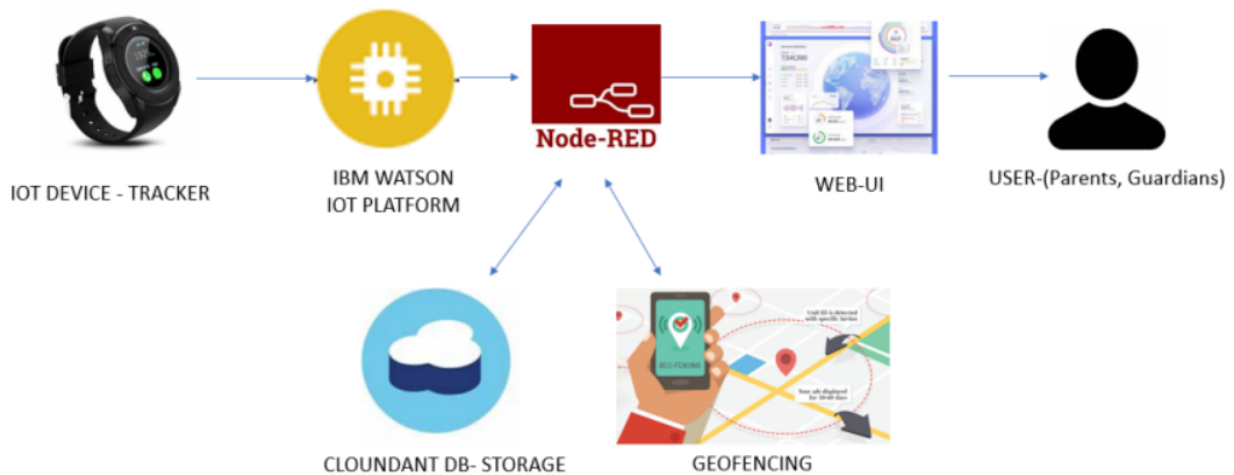
The implementation is done and executed by progressing the logic and coding. Where the vital packages are imported and for each router specific logic is developed in accordance to the usage. Development of a safety device for kids to guarantee their security in the absence of understated examination of their parents. The various aspects involve: GPS Signal by Notification to parents, Health monitoring of children, notification to parents, guardians, near by police station.

DESIGN:

All the requisites are used to draft the Application. The layout and architecture of the software are done in a distinctive approach so the software can be employed and developed imminently. The Arduino acquires the region from the GPS equipment and consigns it to the cloud to inspect if the end user is within the confined zone. If the user is further away from the confined zone, an alert is sent to the cataloged mobile

through the cloud. When the requisition is opened, the locality is obtained from the cloud and unveiled on the mobile.

TECHNICAL ARCHITECTURE :



Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Users react with the Application, Web UI/Chatbot.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Registration of children and parents details in the application.	Python, C.
3.	Application Logic-2	Children's device GPS should be always ON. So the location can be shared to the parents.	IBM Watson STT service, IBM Watson Assistant
4.	Application Logic-3	The information of the child's health and location should be alerted to the parents through GSM with the help of GPS.	IBM Watson Assistant, IBM Watson STT service,
5.	Database	Data type can be of any configurations and locations are stored in the IBM cloud for future use	MySQL, NoSQL, etc.
6.	Cloud Database	IBM Cloudant DB	IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

8.	External API-1	User to allow or give permission for the IoT device data communication and access the child location	GPS module
9.	External API-2	To view the Location of the child and integrating Geo-Fence with Google Maps	Google Maps
10.	Machine Learning Model	For monitoring the child, its activities and with a ML model, we can easily know what's happening to the child and prevent any mishappenings	Object Recognition Model, State Prediction Model, Risk Management, etc.
11.	Infrastructure (Server / Cloud)	Local Server chassis: Wearable high-tech mechanism. Cloud Server Configuration: A network that reinforces IoT devices and applications.	Cloud Foundry

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The end users (parents/guardians) can monitor their children easily by using this proposed method.	UI/UX
2.	Security Implementations	Alarm notification and continuous video recording monitoring whenever the emergency button is pressed. The wifi modules are of assistance in sending the monitoring particulars, the user will be notified with and update if any errors are found,for the efficient functioning of the device.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Sensor-IoT based cloud architecture	IBM cloud
4.	Availability	Mobile,Laptop/Desktop and other distributed servers	MIT app
5.	Performance	Checking the child location if hye/she crosses the geofence. If they do, the notifications will be sent to parents/guardians.The health condition of the children will be sent to the parent.	Temperature sensor

USER STORIES:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1 (Father)	As a user, I can register for the application by entering my email, password, and confirming my	I can access my account / dashboard.I can receive	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			password. So, I can access my child's location and health parameters.	confirmation email & click confirm		
		USN-2 (Mother)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters.	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
	Health Monitoring system	USN-3	Heart rate sensor and temperature sensor are used to monitor the health of the child.	I can receive an alert when there are changes.	Medium	Sprint-1
	Live location tracking	USN-4	Safety gadget contains GPS module so that the live location of the child can be tracked	I can receive notification after a specified amount of time.	Medium	Sprint-1
	Dashboard	USN-5	As a user, I can log into the application by entering email & password	I can access my dashboard and account.	High	Sprint-2
Customer (Web user)	Registration	USN-1 (Father)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
		USN-2 (Mother)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters.	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
	Health Monitoring system	USN-3	Heart rate sensor and temperature sensor are used to monitor the health of the child.	I can receive an alert when there are changes.	Medium	Sprint-1
	Live location tracking	USN-4	Safety gadget contains GPS module so that the live location of the child can be tracked	I can receive notification after a specified amount of time.	Medium	Sprint-1
	Dashboard	USN-5	As a user, I can log into the application by entering email & password	I can access my dashboard and account.	High	Sprint-2
Customer Care Executive		USN-6	Doesn't need to memorize the specific keywords to send	I can easily use the application	Medium	Sprint-3
Administrator		USN-7	The current state of the sensors can be viewed through app	I can easily know the state of the sensors for efficient process	High	Sprint-4

PROJECT PLANNING AND SCHEDULING

SPRINT PLANNING AND ESTIMATION:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Sowmiya, Rithika, Swetha, Shyamala
Sprint-1	User confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sowmiya, Rithika, Swetha, Shyamala
Sprint-2	user login	USN-3	Setting up user ID and password	1	high	Sowmiya, Rithika, Swetha, Shyamala
Sprint-1	App permission	USN-4	Grant the permission to access the app to check out the location of the children.	2	Medium	Sowmiya, Rithika, Swetha, Shyamala
Sprint-1	Interfacing	USN-5	Connecting the device with the registered Application.	1	High	Sowmiya, Rithika, Swetha, Shyamala
	Setting Geofence	USN-6	Setting up geofence location and its coordinates	2	Medium	Sowmiya, Rithika, Swetha, Shyamala
Sprint 4	user notification	USN -7	To develop a module to notify the user in case of possible emergency	2	High	Sowmiya, Rithika, Swetha, Shyamala
Sprint 2	Tracking location	USN-8	Live location can be tracked using sensor	1	High	Sowmiya, Rithika, Swetha, Shyamala

SPRINT DELIVERY SCHEDULE:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	04 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

CODING AND SOLUTION

FEATURE 1:

```
<style include="cr-shared-style settings-shared iron-flex">

  #safetyCheckCollapse .list-item.selected {

    min-height: var(--settings-row-two-line-min-height);

  }

  iron-icon {

    display: flex;

    flex-shrink: 0;

    padding-inline-end: var(--cr-icon-button-margin-start);

    width: var(--cr-link-row-icon-width, var(--cr-icon-size));

  }

</style>

<div id="safetyCheckParent" class="cr-row first two-line">

  <iron-icon icon="settings20:safety-check" aria-hidden="true">

  </iron-icon>

  <div class="flex cr-padded-text" no-search>

    [[parentDisplayString_]]

  </div>

  <template is="dom-if" if="[[shouldShowParentButton_(parentStatus_)]]"

    restamp>

    <cr-button id="safetyCheckParentButton" class="action-button"

      on-click="onRunSafetyCheckClick_" no-search

      aria-label="$i18n{safetyCheckParentButtonAriaLabel}">
```



```

        $!18n{safetyCheckParentButton}

    </cr-button>

</template>

<template is="dom-if" if="[[shouldShowParentIconButton_(parentStatus_)]]"
    restamp>

    <cr-icon-button id="safetyCheckParentIconButton"

        iron-icon="settings:refresh"

        on-click="onRunSafetyCheckClick_"

        aria-label="$!18n{safetyCheckParentRunAgainButtonAriaLabel}">

    </cr-icon-button>

</template>

</div>

<iron-collapse id="safetyCheckCollapse"

    opened="[[shouldShowChildren_(parentStatus_)]]">

    <settings-safety-check-updates-child>

</settings-safety-check-updates-child>

    <settings-safety-check-passwords-child>

</settings-safety-check-passwords-child>

    <settings-safety-check-safe-browsing-child>

</settings-safety-check-safe-browsing-child>

    <settings-safety-check-extensions-child>

</settings-safety-check-extensions-child>

    <if expr="_google_chrome and is_win">

        <settings-safety-check-chrome-cleaner-child id="chromeCleanerChild">

</settings-safety-check-chrome-cleaner-child>

    </if>

</iron-collapse>

```

FEATURE 2:

```
<html>

<head>

<title>Child Safety Tips - Kidnapping Escape</title>

<link href="https://www.crime-safety-security.com/crime.xml" rel="alternate" title="RSS"
type="application/rss+xml"/>

<style type="text/css">

#addSiteTo {

width:90%;

font-size:85%;

text-align:center;

padding:8px 0;

border:1px solid #000;

margin:12px auto;

background-color: #FFFFFF;

}


#addSiteTo p {

padding:2px 2px 4px;

margin:0;

}


#addSiteTo img {

border:0;

padding:1px 0;

}
```

```
#addSiteTo .questionMark {  
  
padding:0;  
  
margin:1px auto;  
  
text-align:center;  
  
width:75%;  
  
}
```

```
#addSiteTo .questionMark img {  
  
margin:0 4px 4px 0;  
  
padding:0;  
  
}
```

```
</style>
```

```
<meta content="text/html; charset=utf-8" http-equiv="Content-Type"/>
```

```
<meta content="Child Safety Tips for stranger danger and personal safety devices to prevent child  
kidnapping." name="Description"/>
```

```
<meta content="Child Safety, Stranger Danger, child kidnapping, Personal Safety Devices"  
name="Keywords"/>
```

```
<link
```

```
href="http://web.archive.org/web/20120213042846cs_/http://www.crime-safety-security.com/support-files/clas  
sic_footer.css" rel="stylesheet" type="text/css"/>
```

```
<meta content="SKYPE_TOOLBAR_PARSER_COMPATIBLE" name="SKYPE_TOOLBAR"/>
```

```
<link href="https://www.crime-safety-security.com/child-safety-kidnap.html" rel="canonical"/>
```

```
<script language="JavaScript" type="text/javascript">
```

```
<!--
```

```
function MM_swapImgRestore()
```

```

{
    var i,x,a=document.MM_sr; for(i=0;a&& i<a.length&&(x=a[i])&&x.oSrc;i++) x.src=x.oSrc;
}

```

```
function MM_preloadImages()
```

```

{
    var d=document;
    if(d.images)
    {
        if(!d.MM_p) d.MM_p=new Array();
        var i,j=d.MM_p.length,a=MM_preloadImages.arguments;
        for(i=0; i<a.length; i++)
            if (a[i].indexOf("#")!=0)
            {
                d.MM_p[j]=new Image; d.MM_p[j++].src=a[i];
            }
    }
}

```

```
function MM_swapImage()
```

```

{
    var i,j=0,x,a=MM_swapImage.arguments;
    document.MM_sr=new Array;
    for(i=0;i<(a.length-2);i+=3)
        if ((x=MM_findObj(a[i]))!=null){document.MM_sr[j++]=x; if(!x.oSrc) x.oSrc=x.src; x.src=a[i+2];}
}

```

```
function MM_openBrWindow(theURL,winName,features)
```

```
{
```

```
    window.open(theURL,winName,features);
```

```
}
```

```
function MM_findObj(n, d)
```

```
{
```

```
    var p,i,x;
```

```
    if(!d) d=document; if((p=n.indexOf("?"))>0&&parent.frames.length)
```

```
    {
```

```
        d=parent.frames[n.substring(p+1)].document; n=n.substring(0,p);
```

```
    }
```

```
    if(!(x=d[n])&&d.all)
```

```
        x=d.all[n];
```

```
    for (i=0;!x&&i<d.forms.length;i++) x=d.forms[i][n];
```

```
    for(i=0;!x&&d.layers&&i<d.layers.length;i++)
```

```
        x=MM_findObj(n,d.layers[i].document);
```

```
    if(!x && d.getElementById)
```

```
        x=d.getElementById(n);
```

```
    return x;
```

```
}
```

```
//-->
```

```
</script>
```

```
<script language="JavaScript" type="text/JavaScript">
```

```
<!--
```

```
function MM_displayStatusMsg(msgStr) { //v1.0
```

```
status=msgStr;

document.MM_returnValue = true;

}

//-->

</script>

<style media="all" type="text/css">

body, td

{

    font:13px Verdana, Geneva, Arial, Helvetica, sans-serif;

    color:#000;

    margin: 0px;

}

</style>

</head>

<body alink="Red" background="http://www.crime-safety-security.com/imgs/backimage.gif"

bgcolor="#FFFFFF" link="Blue"

onload="MM_preloadImages('http://www.crime-safety-security.com/imgs/index-over.gif',

'http://www.crime-safety-security.com/imgs/crime-blog-over.gif',

'http://www.crime-safety-security.com/imgs/site-directory-over.gif',

'http://www.crime-safety-security.com/imgs/index-sitemap-over.gif',

'http://www.crime-safety-security.com/imgs/Stranger-Danger-over.gif',

'http://www.crime-safety-security.com/imgs/Internet-Safety-for-Kids-over.gif',

'http://www.crime-safety-security.com/imgs/Cyber-Bullying-over.gif',

'http://www.crime-safety-security.com/imgs/Stop-Bullying-over.gif',

'http://www.crime-safety-security.com/imgs/School-Violence-over.gif',

'http://www.crime-safety-security.com/imgs/Teen-Abuse-over.gif',

'http://www.crime-safety-security.com/imgs/Cyber-Stalking-over.gif',
```

'<http://www.crime-safety-security.com/imgs/College-Security-over.gif>,
'<http://www.crime-safety-security.com/imgs/Running-Safety-over.gif>,
'<http://www.crime-safety-security.com/imgs/Street-Crime-over.gif>,
'<http://www.crime-safety-security.com/imgs/Purse-Snatching-over.gif>,
'<http://www.crime-safety-security.com/imgs/Parking-Lot-Safety-over.gif>,
'<http://www.crime-safety-security.com/imgs/Driving-Safety-Tips-over.gif>,
'<http://www.crime-safety-security.com/imgs/Apartment-Security-over.gif>,
'<http://www.crime-safety-security.com/imgs/Burglary-Prevention-over.gif>,
'<http://www.crime-safety-security.com/imgs/Camping-Safety-over.gif>,
'<http://www.crime-safety-security.com/imgs/Myth-Busters-over.gif>,
'<http://www.crime-safety-security.com/imgs/Urban-Myths-over.gif>,
'<http://www.crime-safety-security.com/imgs/Free-Range-Kids-over.gif>,
'<http://www.crime-safety-security.com/imgs/Myths-and-Urban-Legends-over.gif>,
'<http://www.crime-safety-security.com/imgs/True-Crimes-over.gif>,
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Then
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 Don't worry -- your e-mail address is totally secure.
 I promise to use it

only to send you The Crime-Safety-Security Newsletter. </td>

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<td> <h1 style="text-align:center;">Child Safety Tips:<br>Kidnapping Escape</h1> <p><br>Kidnapping is

the worst threat to Child Safety. Teach your child to:</p><p></p>

<center>

<b>DO <u><i>ANYTHING</i></u> POSSIBLE TO ESCAPE FROM A KIDNAPPER!</b>

</center><p></p><p></p><p>CHILD SAFETY DRILL: If a

stranger in a car wants you to come closer, run as fast as you can in the opposite direction, and scream for

someone to call 9-1-1.<br><br></p>

<blockquote>

<i>Two men kidnapped 7-year-old Erica Pratt from a Philadelphia street in 2002. They locked her in the

basement of an abandoned house and made ransom demands of her family. Erica gnawed through the duct tape

binding her, kicked through a door panel, broke an outside window to call for help, and was freed with the help

of kids nearby.<p></p></i>

Rebecca Savarese was walking to school in Pittsfield MA on a wintry morning in 1993. A man exited his pickup truck parked at the curb of the busy intersection, then grabbed and pulled the 10-year-old toward his truck. She yelled and spun away, leaving him holding her backpack as she ran to safety. He dropped it on the sidewalk and casually drove away. Only one of many passersby noticed the kidnapping attempt and wrote down the truck's license plate number, leading to Louis Lent's arrest at his home (with cages concealed in the walls) â€” a suspected murderer of dozens of children.

Rebecca was his only target who'd been taught child safety classes â€” to defy an adult and fight to escape immediately. Odds of survival are far better on the spot rather than at a secluded secondary crime scene where a kidnapper can carry out his evil plans. As early as possible, through role-playing (and playing Hide & Seek), teach Child Safety to your children â€” how to escape from a kidnapper.

### STRANGER DANGER ESCAPE

â€” Thrash, fight, bite, and scream, "Help! Police!" repeatedly, shed a jacket or backpack that is grabbed, drop any excess baggage slowing them down, escape to a populated area, and call the police. YELL! RUN! TELL! The kidnapper fears a public spectacle and may simply flee alone. Also, witnesses may intervene, or at least identify the kidnapper and/or vehicle.

â€” If there's a gun, ignore it and run! A gun is used to scare â€” rarely if ever to shoot a child. (Besides, if he's willing to quickly kill a child on the spot, he'll slowly do worse harm at leisure before killing the child later at a secluded, secondary crime scene anyway.)

â€” Pull the pin on their personal noisemaker alarm. See below.

â€” Run in circles around an object such as a parked car.

â€” Get under a car (belly up) and hold onto the underside so he can't drag them out. If he crawls under there after them, get out on the other side.

â€” Pull a fire alarm.

### Child Safety Devices & Program

â€” See all of child safety throughout Crime-Safety-Security.com, especially [Home Security](#).

â€” [GPS Child Locator](#): a child tracking device. A variety of models are available. I highly recommend these if used with the utmost parental discretion.

â€” [Personal Security Alarm](#): a.k.a. noisemaker or screamer. Most attackers won't chase a noisy target.

â€” The [RadKids.org](#) superbly covers child self-defense (from bullies, molesters, kidnappers) as well as all-around child safety tips (for fires, traffic, getting lost, etc.) for ages 5-12. The instruction level increases for each age group. And it's a terrific bargain:

pay the low fee once (which barely covers overhead costs) and your child can return again and again for free at any RadKids location nationwide. <h3 style="text-align:center;">Child Safety Tips</h3>

<center>

<b>Windmilling</b>

</center><p></p>

<blockquote>

<i>The haunting videotape from Evie's Car Wash camera in Sarasota FL shows 11-year-old Carlie Brucia being led to her death by Joseph P. Smith in 2004 â“ the first time the world actually saw a monster kidnapping a child â“ pulling her by the wrist out of sight.</i>

</blockquote><p></p><p>It might have never happened had she not been outdoors unsupervised, or had she known the child safety technique for kids to get away from an adult by “windmilling” their arm when it's grabbed â“ that is, <i>suddenly swinging the whole, straight arm from the shoulder in a large circle to break his grip. Then the child should run screaming for help.</i></p><p><i>If snatched while on a bike: hang onto the bike with hands and legs intertwined around the bike to prevent being shoved into a car. Scream all the while.</i></p><p></p>

<center>

<b>IF THE CHILD IS <i>ALREADY</i> IN THE KIDNAPPER'S CAR</b>

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<b>CAUTION:</b> These escape maneuvers may injure the child or others. The parents must assume

<i>all</i> responsibility and decide if the benefit of child safety outweighs the risk. Practice these maneuvers in a parked vehicle with the motor turned

<i>off</i>.

</tab></p><p>The main idea is to <i>stop</i> the kidnapper â“ the sooner the better â“ from driving the child to a secluded location. The child must disrupt the kidnapper’s ability to drive and/or cause the car to crash while it’s moving at a <b><i>slow</i></b> speed. This will attract the attention of other people and give the child a chance to flee. Then:</p><p>&#x2666 <i>Immediately</i>, before he even begins to drive her away, she

can thrust herself between the driver and steering wheel â€” hanging onto the steering wheel with all her might while blaring the horn. *<i>Do this as soon as possible</i>* â€” or whenever she gets the chance.<br/>â€” Grab the ignition key to turn off the engine â€” causing the car to suddenly slow and the steering to freeze.<br/>â€” Grab the steering wheel while he’s in mid-turn.<br/>â€” Brace her back against the door and attack the kidnapper with the powerful *<i>Defensive Ground Kicks</i>* taught in [Fighting Strategies](#). He won’t be able to drive while absorbing a rapid-fire barrage of such kicks.<br/>â€” Jump out the door whenever the car is not moving.<br/>â€” Scream “Help! Police!” whenever a window or door is opened.<br/>â€” If she’s a back seat passenger, she may still be able to attack the driver by attacking his eyes or throat from behind at a critical time. *<i>At a very slow speed, cause the car to crash!</i></p><p>*To enhance child safety, teach children

*<i>Clinch Attacks</i>* at [Fighting Strategies](#). </p><h3 style="text-align:center;">GIRL  
OUTSMARTS KIDNAPPER</h3>

<blockquote>

*<i>*A burglar, Enrique Sosa Alvarez, kidnapped 9-year-old Jennette Tamayo from her San Jose CA home in 2003 and drove away with her in the back seat of his car. She felt panic when he spoke on his cellphone about killing her and thought, “Oh, my God! I have to find a way out.” She stayed strong as she talked to him, saying that she was sick â€” so that he saw her as a person.</i>

<p><i>Spooked by intense media coverage and an Amber Alert, he dropped her off unharmed. She helped police find him by having memorized his cellphone number.</i></p>

</blockquote> <p></p><h3 style="text-align:center;">Safety Tips for Kids</h3> â€” <a>Child Safety - Overview</a><br/>â€” <a>GPS Child Locator</a>: a child tracking device.<br/>â€” <a>Personal Security Alarm</a>: a.k.a. screamer or noisemaker.<br/>â€” <a>Child - Molester Safety</a>: the subtle warning signs.<br/>â€” <a>Child Safeguarding</a> from molesters, bullies, and more.<br/>â€” <a>Child - Internet Safety</a>: the dangers & safeguards.<br/>â€” <a>Internet Safety for Kids</a> 10 things parents need to know FAQ.<br/>â€” <a>Cyber Bullying</a>: how to stop it FAQ.<br/>â€” <a>Stop Bullying</a> in school FAQ.<br/>â€” <a>School Violence</a> prevention FAQ.<br/>â€” <a>Child - Outdoor Safety</a>: staying out of harm’s way.<br/>â€” <a>Free-Range Kids</a> vs Myth Busters<br/>â€” <a>Child Kidnapping</a>: dangers lurking at the Mall.<br/>â€” <a>Child - Kidnapping Escape</a> from a monster. <b>(YOU’RE NOW ON

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[Stranger Danger](#) vs [Stranger Safety FAQ](#) [911 Calls](#):

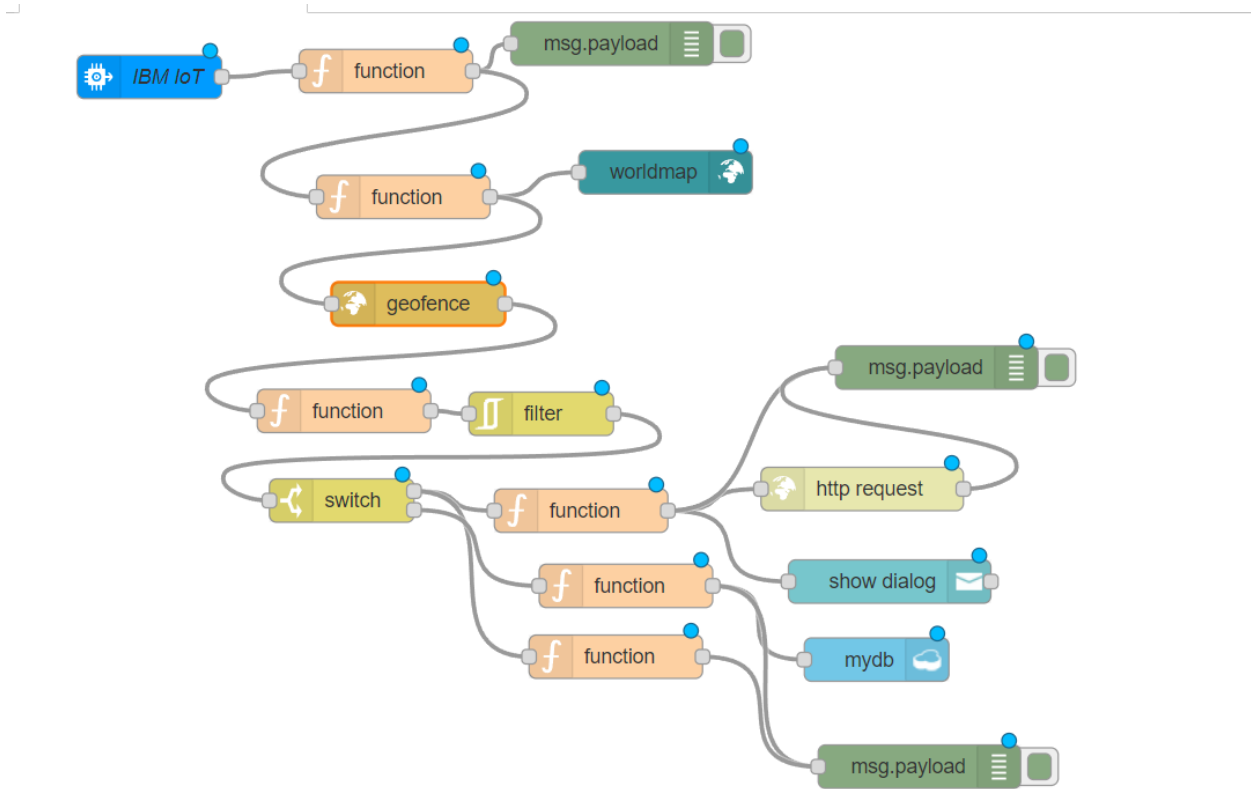
how to do it right. [Recap & Resources](#): a summary of this section. [Go to](#)

[Stranger Danger vs Stranger Safety FAQ](#) [Stop Bullying FAQ](#) [Child Safety - Overview](#) [www.Crime-Safety-Security.com HOME PAGE](#)

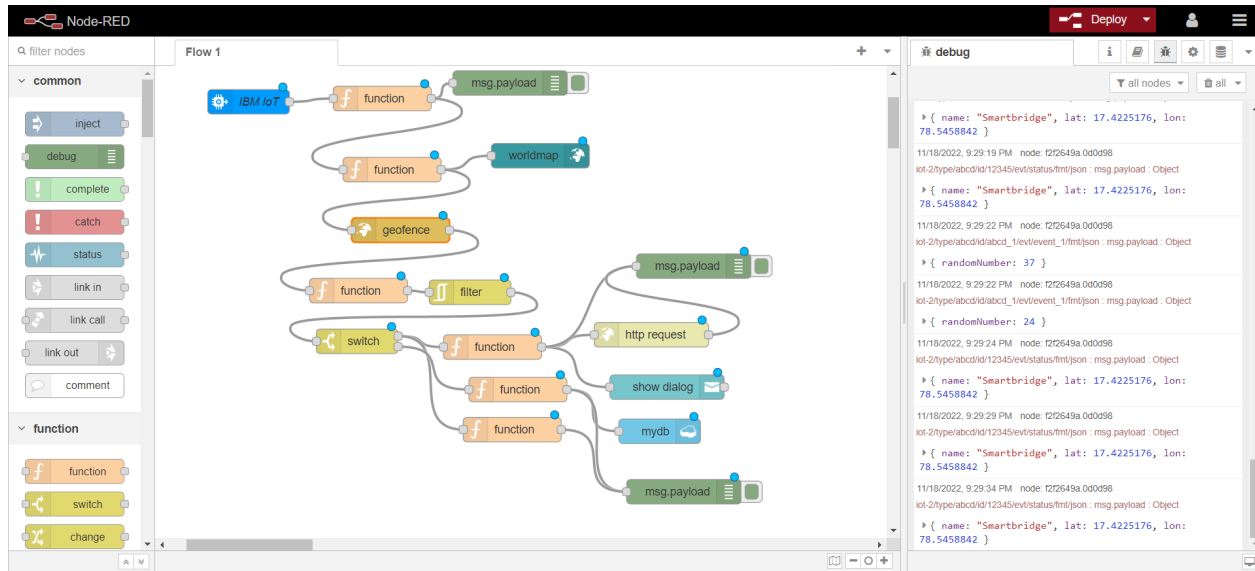
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RESULTS

PERFORMANCE METRICS:







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import wiotp.sdk.device
import time

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 "auth": {
 "token": "12345678"
 }
}

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
 name= "Smartbridge"
 #in area location

 latitude= 17.4225176
 longitude= 78.5458842

 #out area location

 #latitude= 17.4219272
 #longitude= 78.5488783
 myData={'name': name, 'lat':latitude, 'lon':longitude}
 client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
 print("Data published to IBM IOT platform: ",myData)
 time.sleep(5)

client.disconnect()
```





## **ADVANTAGES AND DISADVANTAGES**

### **ADVANTAGES:**

- Staying Connected
- Data Accuracy
- Efficiency
- It is easy to use the app in mobile phones
- Weightless device
- Easy to track child location
- Alert is sent to parents when there is danger

### **DISADVANTAGES:**

- High cost but once implemented the expenses can be reduced
- Sensors have to be changed after a period of time
- Device will not work in the absence of internet
- Loss of data when internet is lost

## **CONCLUSION**

The child safety wearable device is capable of acting as a smart IOT device. It provides parents with real time location, child's heart rate and temperature and the device is capable of holding long battery life.

Throughout the research, it is clearly explained the IoT concept, child safety issues and the need of using child security systems. Some previous studies have been included for designing the

IoT-based child security smart band. It assists parents to monitor their children remotely. In case situations happen, notifications will be sent to parents so that actions can be taken. Through this, child safety can be ensured and crime rate will be reduced. The child's parent will receive regular updates on the child's condition so that they won't have to worry about their child when they aren't there. People involved in harassment and child trafficking will feel some fear as a result of this. This application will stop the child from being harassed and taken away, in the same way that the well-known proverb states, "Prevention is better than cure."

## **FUTURE SCOPE**

The proposed device is not robust enough and does not contain sufficient functions to operate like a mobile phone. Hence, the future enhancements will be adding more features, software, applications, hardware to make the proposed system capable of working more intelligently, meanwhile guarantee the safety of children.

## **APPENDIX**

### **SOURCE CODE:**

#### **DASHBOARD USING HTML AND CSS:**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<link href="https://fonts.googleapis.com/css2?family=Lobster&display=swap" rel="stylesheet">
```

```
<title>Dashboard</title>
```

```
<style>
```

```
body{
```

```
margin:0%;
```

```
background-color: rgb(252, 199, 180);
```

```
}
```

```
#topbar{
```

```
background-color: white;
```

```
height: 70px;
```

```
width: 100%;
```

```
}
```

```
.head{
```

```
font-size: 30px;
```

```
font-family: 'Lobster', cursive;
```

```
padding: 20px 40px ;
```

```
position: absolute;
```

```
color: rgb(10, 107, 110);
```

```
}
```

```
.head1 {
 font-size: 25px;
 font-family: 'Lobster', cursive;
 padding: 20px 10px ;
 position: absolute;
 color: rgb(10, 107, 110);
 left: 1050px;
}
```

```
.head1: hover {
 color: red;
}
```

```
.head2 {
 font-size: 25px;
 font-family: 'Lobster', cursive;
 padding: 20px 50px ;
 position: absolute;
 color: rgb(10, 107, 110);
 left: 1150px;
}
```

```
.head2: hover
{
 color: red;
}
```

```
.head3 {
```

```
font-size: 25px;

font-family: 'Lobster', cursive;

padding: 20px ;

position: absolute;

color: rgb(10, 107, 110);

left: 1300px;

}
```

```
.head3:hover{

 color: red;

}
```

```
.image{

 width: 200px;

 height: 200px;

 padding: 70px;

}
```

```
.text{

 font-size: 23px;

 padding: 100px;

 bottom: 150px;

 position: relative;

 text-align: center;

 right: 80px;

}
```

```
.meter{
```



```
height:40px;

width:150px;

position: relative;

right:250px;

bottom:18px;

}

.parent-item{

 display: flex;

flex-direction: row;

flex-wrap: wrap;

}

#item{

 flex-basis: 33.33%;

padding: 5px;

box-sizing: border-box;

}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div id="topbar">
```

```
CHILD SAFETY APP
```

```
Features
```

```
Logout
```

```
Emergency-calls
```

</div >

<div class="parent-item">

<div id="item">



<a href="#" target="\_blank"><h4 class="text">Temperature</h4></a>

</div>

<div id="item">



<a href="#"> <h4 class="text">Current Location</h4></a>

</div>

<div id="item">



<a href="#"><h4 class="text">Geofence</h4></a>

</div>

</div>

</body>

</html>

## **FIRE AUTHENTICATION USING HTML AND CSS:**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<link rel="stylesheet" href="/css/fireoauth.css">
```

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/nprogress/0.2.0/nprogress.min.css">
```

```
<link rel="shortcut icon"
```

```
href="https://raw.githubusercontent.com/tharunoptimus-pd/firepwa/main/favicon.ico?token=GHSAT0AA
AAAABR46HVJ5M5L3QGFRZRQXOISYUJUWAA" type="image/x-icon">
```

```
<style>
```

```
html,
```

```
body {
```

```
 height: 100%;
```

```
 margin: 0;
```

```
 font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Oxygen,
```

```
 Ubuntu, Cantarell, "Open Sans", "Helvetica Neue", sans-serif;
```

```
 font-weight: 300;
```

```
}
```

```
a {
```

```
 text-decoration: none;
```

```
 color: #007bff;
```

```
 font-weight: 500;
```

```
 font-size: 1.2rem;
```

```
}
```

```
h3 {
 font-size: 1.4rem;
}
```

```
h3, h4 {
 margin: 0;
 padding: 0.3rem 0;
}
```

```
.wrapper {
 display: flex;
 flex-direction: column;
 align-items: center;
 justify-content: center;
 height: 100%;
 text-align: center;
}
```

```
.oneClickSignin {
 padding: 0.5rem;
 border: 1px solid #44444444;
 border-radius: 5px;
 box-shadow: 0 0 3px 0px #44444444;
 opacity: 0.2;
```

```
 pointer-events: none;
}
```


```
.qrcode {
 opacity: 0.1;
}
```

```
.learnAboutFire {
 padding-top: 1.25em;
}
```

```
.qrHolder {
 display: none;
 margin-top: 3rem;
}
```

```
.qrContainer {
 align-items: center;
 display: flex;
 justify-content: center;
 padding: 8px;
 margin: 2rem auto;
 box-shadow: 0 0px 6px 1px rgb(0 0 0 / 16%);
 border: 1px solid #44444444;
 border-radius: 6px;
 width: 200px;
```

```
 height: 200px;
 }
</style>
<title>Fire OAuth</title>
<script>
 if (window.location.hostname !== "localhost") {
 if (location.protocol !== "https:") {
 location.replace(
 `https:${location.href.substring(
 location.protocol.length
)}`
)
 }
 }
</script>
</head>
<body>
 <div class="wrapper">
 <h3 class="pageTitle">Login with SAFETY</h3>

 <div class="qrAuthorize">
 <h4 class="subTitle">Scan QR from your Fire OAuth App  </h4>

 <div class="qrContainer">
 <canvas id="qr-code" class="qrcode"></canvas>
 </div>
 </div>
 </div>
</body>
</html>
```

</div>

<div class="oneClickSignin">

<h4>Have Fire PWA on this device?</h4>

<a target="\_blank" id="authorizeOverLink" href="https://firepwa.netlify.app/authorize?sessionId" rel="noopener">Click to Authorize 🔑 </a>

</div>

<div class="learnAboutFire">

<a target="\_blank" href="https://fireoauth.netlify.app" rel="noopener">Learn More about SAFETY</a>

</div>

</div>

<script src="https://cdnjs.cloudflare.com/ajax/libs/nprogress/0.2.0/nprogress.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/qrious/4.0.2/qrious.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/socket.io/4.2.0/socket.io.js"></script>

<script>

const FIRE\_API\_KEY = "635b790a3bcc6b59c4b772d0"

const FIRE\_ENDPOINT = "https://fire.adaptable.app/api/apis/generate"

const CHANNEL\_NAME = "fireOAuthChannel"

const broadcastingChannel = new BroadcastChannel(CHANNEL\_NAME)

const FIRE\_SERVER\_SOCKET\_ENDPOINT = "https://fire.adaptable.app"

let socket = io(FIRE\_SERVER\_SOCKET\_ENDPOINT)

let qr

```

let qrCode = document.querySelector(".qrCode")

let oneClickSignin = document.querySelector(".oneClickSignin")

let pageTitle = document.querySelector(".pageTitle")

let subTitle = document.querySelector(".subTitle")

function setOpacity(opacity) {

 oneClickSignin.style.opacity = opacity

 oneClickSignin.style.pointerEvents = opacity === "1" ? "auto" : "none"

 qrCode.style.opacity = opacity

}

async function getSessionID() {

 let response

 try {

 response = await fetch(`${FIRE_ENDPOINT}/${FIRE_API_KEY}`, {

 method: "GET",

 headers: {

 "Content-Type": "application/json",

 }

 })

 } catch (error) {

 console.log(error)

 return null

 }

 let data = await response.json()

```



```

 let { sessionId, chatRoomId } = data

 return { sessionId, chatRoomId }
 }

```

```

function generateQR(value) {
 (qr = new QRious({
 element: document.getElementById("qr-code"),
 size: 200,
 level: 'M',
 value: value,
 })))
}

```

```

function changeHREF ({sessionId, chatRoomId}) {
 let firePwaUrlHostname = "https://firepwa.netlify.app"
 let originURL = encodeURIComponent(window.location.origin)

```

```

 let url =
`$ {firePwaUrlHostname}/authorize.html?sessionId=${sessionId}&chatRoomId=${chatRoomId}&url=${
originURL}`

```

```

 let a = document.getElementById("authorizeOverLink")
 a.href = url
 }

```

```

async function fire() {
 NProgress.set(0.4)

 let { sessionId, chatRoomId } = await getSessionID()

```

```
 if(sessionId === undefined || chatRoomId === undefined || sessionId === null || chatRoomId ===
null) {

 pageTitle.innerHTML = "Something went wrong 🦴"

 subTitle.innerHTML = "Please try again later 😞"

 return

 }
```

```
 setOpacity("1")
```

```
 NProgress.done()

 let data = {

 sessionId,

 url: encodeURIComponent(window.location.origin)

 }

 data = JSON.stringify(data)

 generateQR(data)

 changeHREF({sessionId, chatRoomId})

 socket.emit("join room", sessionId)

}
```

```
fire()
```

```
socket.on("trusted token", (token) => {
```

```
 let data = {}
```

```
data.success = true
```

```
data.token = token
```

```
broadCastingChannel.postMessage(data)
```

```
window.close()
```

```
})
```

```
</script>
```

```
</body>
```

```
</html>
```

## **LOGIN PAGE**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Login Page</title>
```

```
<style>
```

```
body{
```

```
margin: 0%;
```

```
}
```

```
form{
```

```
background-color: rgb(242, 219, 129);
```

```
width: 45%;height:500px;
```

```
border: 1px solid blue;

text-align: center;

margin:auto;

border-radius: 50px;
}

.names{

font-size: 20px;
}

.input-wrapper{

padding: 50px;

}

.logo0{

width: 30px;

margin: 5px;

padding-bottom: 2.5px;

}

.logo{

width: 30px;

margin: 5px;

padding-bottom: 1px;

}

.logo2{

width: 30px;

margin: 5px;
```

```
padding-bottom: 8.7px;
}
.texts{
height: 34px;width: 200px;

}
.button{
height: 30px;width: 150px;
}
</style>
</head>
<body>
<form id="forms">
<div class="input-wrapper">
<h1 style="text-align:center">Login</h1>
<label for="Username" class="names">Username</label>
<input type="text" class="texts" placeholder="Type your username" required>

<label for="pass" class="names">Password</label>
<input type="password" class="texts" placeholder="Type your password" required>

<p> forgot your password?</p>
<input type="button" value="Submit" class="button">
<p>Register</p>

<p>Or sign up using</p>

```

```

```

```

```

```
</div>
```

```
</form>
```

```
<script>console.log("welcom to html")</script>
```

```
<script type="text/javascript" src="/javascript.js"></script>
```

```
</body>
```

```
</html>
```

## **REGISTER PAGE:**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Registration_page</title>
```

```
<style>
```

```
body{
```

```
margin: 0%;
```

```
}
```

```
.box{
```

```
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;

padding: 34px;

text-align: center;
}

.texts{

padding: 12px;

border-radius: 23px;

position: relative;

left: 80px;
}

.text{

padding: 12px;

border-radius: 23px;

position: relative;

left: 55px;
}

.text1 {

padding: 12px;

border-radius: 23px;

position: relative;

left: -9px;
}

.text2{

padding: 12px;

border-radius: 23px;

position: relative;
```

```
 left: 10px;
 }
 #form{
 background-color: antiquewhite;
 height: 450px;
 width: 450px;
 margin: 34px 500px;
 padding: 34px;
 border-radius: 45px;

 }
 .button{
 position: relative;
 right: -180px;

 width: 100px;
 height: 35px;
 background-color: azure;
 align-items: center;
 font-size: 22px;
 }
</style>
</head>
<body>
 <form id="form">
 <div class="input-wrapper">
```



```
<h1 style="text-align:center">Registration Page</h1>
```

```
<label for="email" class="box">E-mail</label>
```

```
<input type="text" class="texts" placeholder="Type your E-mail" required>


```

```
<label for="name" class="box">Username</label>
```

```
<input type="text" class="text" placeholder="Type your username" required>


```

```
<label for="password" class="box">Password</label>
```

```
<input type="password" class="text" placeholder="Type your password" required>


```

```
<label for="confirm-password" class="box">Confirm-password</label>
```

```
<input type="password" class="text1" placeholder="Confirm your password" required>


```

```
<label for="phn-no" class="box">Mobile number</label>
```

```
<input type="number" class="text2" placeholder="type your phone-number"
required>


```

```
<input type="button" class="button" value="submit" >
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

### **PYTHON CODE:**

```
import time
```

```
import sys
```

```
import ibmiotf.application
```

```
import ibmiotf.device
```

```
import random
```

```
#Provide your IBM Watson Device Credentials
```

```
organization = "i3869j"
```

```
deviceType = "abcd"
```

```
deviceId = "12345"
```

```
authMethod = "token"
```

```
authToken = "12345678"
```

```
Initialize GPIO
```

```
def myCommandCallback(cmd):
```

```
 print("Command received: %s" % cmd.data['command'])
```

```
 status=cmd.data['command']
```

```
 if status=="lighton":
```

```
 print ("led is on")
```

```
 elif status == "lightoff":
```

```
 print ("led is off")
```

else :

print ("please send proper command")

try:

deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":  
authMethod, "auth-token": authToken}

deviceCli = ibmiotf.device.Client(deviceOptions)

#.....

except Exception as e:

print("Caught exception connecting device: %s" % str(e))

sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10  
times

deviceCli.connect()

while True:

#Get Sensor Data from DHT11

```
temp=random.randint(90,110)
```

```
Humid=random.randint(60,100)
```

```
data = { 'temp': temp, 'Humid': Humid }
```

```
#print data
```

```
def myOnPublishCallback():
```

```
 print ("Published Temperature = %s C" % temp, "Humidity = %s %% " % Humid, "to IBM Watson")
```

```
success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
```

```
if not success:
```

```
 print("Not connected to IoT")
```

```
time.sleep(10)
```

```
deviceCli.commandCallback = myCommandCallback
```

```
Disconnect the device and application from the cloud
```

```
deviceCli.disconnect()
```

### **APP HTML CODE:**

```
<style include="cr-shared-style settings-shared iron-flex">

 #safetyCheckCollapse .list-item.selected {

 min-height: var(--settings-row-two-line-min-height);

 }

 iron-icon {

 display: flex;

 flex-shrink: 0;

 padding-inline-end: var(--cr-icon-button-margin-start);

 width: var(--cr-link-row-icon-width, var(--cr-icon-size));

 }

</style>

<div id="safetyCheckParent" class="cr-row first two-line">

 <iron-icon icon="settings20:safety-check" aria-hidden="true">

</iron-icon>

 <div class="flex cr-padded-text" no-search>

 [[parentDisplayString_]]

 </div>

 <template is="dom-if" if="[[shouldShowParentButton_(parentStatus_)]]"

 restamp>

 <cr-button id="safetyCheckParentButton" class="action-button"

 on-click="onRunSafetyCheckClick_" no-search

 aria-label="$i18n{safetyCheckParentButtonAriaLabel}">

 $i18n{safetyCheckParentButton}

 </cr-button>

 </template>
```

```

<template is="dom-if" if="[[shouldShowParentIconButton_(parentStatus_)]]"
 restamp>
 <cr-icon-button id="safetyCheckParentIconButton"
 iron-icon="settings:refresh"
 on-click="onRunSafetyCheckClick_"
 aria-label="$i18n{safetyCheckParentRunAgainButtonAriaLabel}">
 </cr-icon-button>
</template>
</div>
<iron-collapse id="safetyCheckCollapse"
 opened="[[shouldShowChildren_(parentStatus_)]]">
 <settings-safety-check-updates-child>
</settings-safety-check-updates-child>
 <settings-safety-check-passwords-child>
</settings-safety-check-passwords-child>
 <settings-safety-check-safe-browsing-child>
</settings-safety-check-safe-browsing-child>
 <settings-safety-check-extensions-child>
</settings-safety-check-extensions-child>
<if expr="_google_chrome and is_win">
 <settings-safety-check-chrome-cleaner-child id="chromeCleanerChild">
</settings-safety-check-chrome-cleaner-child>
</if>
</iron-collapse>

```

**CODE:**

```
<html>

<head>

<title>Child Safety Tips - Kidnapping Escape</title>

<link href="https://www.crime-safety-security.com/crime.xml" rel="alternate" title="RSS"
type="application/rss+xml"/>

<style type="text/css">

#addSiteTo {

width:90%;

font-size:85%;

text-align:center;

padding:8px 0;

border:1px solid #000;

margin:12px auto;

background-color: #FFFFFF;

}

#addSiteTo p {

padding:2px 2px 4px;

margin:0;

}

#addSiteTo img {

border:0;

padding:1px 0;

}

#addSiteTo .questionMark {
```

```
padding:0;

margin:1px auto;

text-align:center;

width:75%;

}
```

```
#addSiteTo .questionMark img {

margin:0 4px 4px 0;

padding:0;

}
```

```
</style>
```

```
<meta content="text/html; charset=utf-8" http-equiv="Content-Type"/>
```

```
<meta content="Child Safety Tips for stranger danger and personal safety devices to prevent child kidnapping." name="Description"/>
```

```
<meta content="Child Safety, Stranger Danger, child kidnapping, Personal Safety Devices" name="Keywords"/>
```

```
<link
```

```
href="http://web.archive.org/web/20120213042846cs_/http://www.crime-safety-security.com/support-files/classic_footer.css" rel="stylesheet" type="text/css"/>
```

```
<meta content="SKYPE_TOOLBAR_PARSER_COMPATIBLE" name="SKYPE_TOOLBAR"/>
```

```
<link href="https://www.crime-safety-security.com/child-safety-kidnap.html" rel="canonical"/>
```

```
<script language="JavaScript" type="text/javascript">
```

```
<!--
```

```
function MM_swapImgRestore()
```

```
{
```

```
var i,x,a=document.MM_sr; for(i=0;a&&i<a.length&&(x=a[i])&&x.oSrc;i++) x.src=x.oSrc;
```



```
}
```

```
function MM_preloadImages()
```

```
{
```

```
 var d=document;
```

```
 if(d.images)
```

```
 {
```

```
 if(!d.MM_p) d.MM_p=new Array();
```

```
 var i,j=d.MM_p.length,a=MM_preloadImages.arguments;
```

```
 for(i=0; i<a.length; i++)
```

```
 if (a[i].indexOf("#")!=0)
```

```
 {
```

```
 d.MM_p[j]=new Image; d.MM_p[j++].src=a[i];
```

```
 }
```

```
 }
```

```
}
```

```
function MM_swapImage()
```

```
{
```

```
 var i,j=0,x,a=MM_swapImage.arguments;
```

```
 document.MM_sr=new Array;
```

```
 for(i=0;i<(a.length-2);i+=3)
```

```
 if ((x=MM_findObj(a[i]))!=null){document.MM_sr[j++]=x; if(!x.oSrc) x.oSrc=x.src; x.src=a[i+2];}
```

```
}
```

```
function MM_openBrWindow(theURL,winName,features)
```

```
{
```

```

 window.open(theURL,winName,features);
 }

function MM_findObj(n, d)
{
 var p,i,x;
 if(!d) d=document; if((p=n.indexOf("?"))>0&&parent.frames.length)
 {
 d=parent.frames[n.substring(p+1)].document; n=n.substring(0,p);
 }
 if(!(x=d[n])&&d.all)
 x=d.all[n];
 for (i=0;!x&&i<d.forms.length;i++) x=d.forms[i][n];
 for(i=0;!x&&d.layers&&i<d.layers.length;i++)
 x=MM_findObj(n,d.layers[i].document);
 if(!x && d.getElementById)
 x=d.getElementById(n);
 return x;
}

//-->
</script>

<script language="JavaScript" type="text/JavaScript">

<!--

function MM_displayStatusMsg(msgStr) { //v1.0

 status=msgStr;

 document.MM_returnValue = true;

```

```
}
//-->
</script>
<style media="all" type="text/css">
body, td
{
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FAQs
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 Then
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value="Subscribe"/>
 Don't worry -- your e-mail address is totally secure.
 I promise to use it
only to send you The Crime-Safety-Security Newsletter. </td>
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style="font-weight:bold;font-size:110%;">?</span></a>] Subscribe To This Site

</div>

<p style="margin-top:4px;"><a onclick="alert('Sorry, please right-click on this button, and then copy the shortcut (the URL of this link). Paste that URL into your RSS reader. If this message is confusing, close this window and then please click on the question mark next to 'Subscribe to This Site'; return false;" target="#new"></a><br/><a rel="nofollow" target="new"></a><br/><a rel="nofollow" target="new"></a><br/><a rel="nofollow" target="new"> </a><br/><a rel="nofollow" target="new"></a></p>

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<td> <h1 style="text-align:center;">Child Safety Tips:<br>Kidnapping Escape</h1> <p><br>Kidnapping is the worst threat to Child Safety. Teach your child to:</p><p></p>

<center>

<b>DO <u><i>ANYTHING</i></u> POSSIBLE TO ESCAPE FROM A KIDNAPPER!</b>

</center><p></p><p></p><p>CHILD SAFETY DRILL: If a stranger in a car wants you to come closer, run as fast as you can in the opposite direction, and scream for someone to call 9-1-1.<br><br></p>

<blockquote>

<i>Two men kidnapped 7-year-old Erica Pratt from a Philadelphia street in 2002. They locked her in the basement of an abandoned house and made ransom demands of her family. Erica gnawed through the duct tape binding her, kicked through a door panel, broke an outside window to call for help, and was freed with the help of kids nearby.<p></p></i>

<p><i>Rebecca Savarese was walking to school in Pittsfield MA on a wintry morning in 1993. A man exited his pickup truck parked at the curb of the busy intersection, then grabbed and pulled the 10-year-old toward his truck. She yelled and spun away, leaving him holding her backpack as she ran to safety. He dropped it on the sidewalk and casually drove away. Only one of many passersby noticed the kidnapping attempt and wrote



down the truck's license plate number, leading to Louis Lent's arrest at his home (with cages concealed in the walls) â€” a suspected murderer of dozens of children.

Rebecca was his only target who'd been taught child safety classes â€” to defy an adult and fight to escape immediately. Odds of survival are far better on the spot rather than at a secluded secondary crime scene where a kidnapper can carry out his evil plans. As early as possible, through role-playing (and playing Hide & Seek), teach Child Safety to your children â€” how to escape from a kidnapper.

### STRANGER DANGER ESCAPE

â€” Thrash, fight, bite, and scream, "Help! Police!" repeatedly, shed a jacket or backpack that is grabbed, drop any excess baggage slowing them down, escape to a populated area, and call the police. YELL! RUN! TELL! The kidnapper fears a public spectacle and may simply flee alone. Also, witnesses may intervene, or at least identify the kidnapper and/or vehicle.

â€” If there's a gun, ignore it and run! A gun is used to scare â€” rarely if ever to shoot a child. (Besides, if he's willing to quickly kill a child on the spot, he'll slowly do worse harm at leisure before killing the child later at a secluded, secondary crime scene anyway.)

â€” Pull the pin on their personal noisemaker alarm. See below.

â€” Run in circles around an object such as a parked car.

â€” Get under a car (belly up) and hold onto the underside so he can't drag them out. If he crawls under there after them, get out on the other side.

â€” Pull a fire alarm.

### Child Safety Devices & Program

â€” See all of child safety throughout Crime-Safety-Security.com, especially [Home Security](#).

â€” [GPS Child Locator](#): a child tracking device. A variety of models are available. I highly recommend these if used with the utmost parental discretion.

â€” [Personal Security Alarm](#): a.k.a. noisemaker or screamer. Most attackers won't chase a noisy target.

â€” The [RadKids.org](#) superbly covers child self-defense (from bullies, molesters, kidnappers) as well as all-around child safety tips (for fires, traffic, getting lost, etc.) for ages 5-12. The instruction level increases for each age group. And it's a terrific bargain: pay the low fee once (which barely covers overhead costs) and your child can return again and again for free at any RadKids location nationwide.

### Child Safety Tips

<center>

<b>Windmilling</b>

</center><p></p>

<blockquote>

<i>The haunting videotape from Evie's Car Wash camera in Sarasota FL shows 11-year-old Carlie Brucia being led to her death by Joseph P. Smith in 2004 â€” the first time the world actually saw a monster kidnapping a child â€” pulling her by the wrist out of sight.</i>

</blockquote><p></p><p>It might have never happened had she not been outdoors unsupervised, or had she known the child safety technique for kids to get away from an adult by “windmilling” their arm when it's grabbed â€” that is, <i>suddenly swinging the whole, straight arm from the shoulder in a large circle to break his grip. Then the child should run screaming for help.</i></p><p><i>If snatched while on a bike: hang onto the bike with hands and legs intertwined around the bike to prevent being shoved into a car. Scream all the while.</i></p><p></p>

<center>

<b>IF THE CHILD IS <i>ALREADY</i> IN THE KIDNAPPER'S CAR</b>

</center><p></p><p>

<tab>

<b>CAUTION:</b> These escape maneuvers may injure the child or others. The parents must assume

<i>all</i> responsibility and decide if the benefit of child safety outweighs the risk. Practice these maneuvers in a parked vehicle with the motor turned

<i>off</i>.

</tab><p><p>The main idea is to <i>stop</i> the kidnapper â€” the sooner the better â€” from driving the child to a secluded location. The child must disrupt the kidnapper’s ability to drive and/or cause the car to crash while it’s moving at a <b><i>slow</i></b> speed. This will attract the attention of other people and give the child a chance to flee. Then:</p><p>â€” <i>Immediately</i>, before he even begins to drive her away, she can thrust herself between the driver and steering wheel â€” hanging onto the steering wheel with all her might while blaring the horn. <i>Do this as soon as possible</i> â€” or whenever she gets the chance.<br/>â€” Grab the ignition key to turn off the engine â€” causing the car to suddenly slow and the steering to freeze.<br/>â€” Grab the steering wheel while he’s in mid-turn.<br/>â€” Brace her back against the door and attack the

kidnapper with the powerful *Defensive Ground Kicks* taught in [Fighting Strategies](#). He won't be able to drive while absorbing a rapid-fire barrage of such kicks.  
Jump out the door whenever the car is not moving.  
Scream "Help! Police!" whenever a window or door is opened.  
If she's a back seat passenger, she may still be able to attack the driver by attacking his eyes or throat from behind at a critical time. *At a very slow speed, cause the car to crash!*

To enhance child safety, teach children *Clinch Attacks* at [Fighting Strategies](#).

### GIRL OUTSMARTS KIDNAPPER

<blockquote>

*A burglar, Enrique Sosa Alvarez, kidnapped 9-year-old Jennette Tamayo from her San Jose CA home in 2003 and drove away with her in the back seat of his car. She felt panic when he spoke on his cellphone about killing her and thought, "Oh, my God! I have to find a way out." She stayed strong as she talked to him, saying that she was sick "so that he saw her as a person.*

*Spooked by intense media coverage and an Amber Alert, he dropped her off unharmed. She helped police find him by having memorized his cellphone number.*

</blockquote>

Safety Tips for Kids

[Child Safety - Overview](#)  
[GPS Child Locator](#): a child tracking device.  
[Personal Security Alarm](#): a.k.a. screamer or noisemaker.  
[Child - Molester Safety](#): the subtle warning signs.  
[Child Safeguarding](#) from molesters, bullies, and more.  
[Child - Internet Safety](#): the dangers & safeguards.  
[Internet Safety for Kids](#) 10 things parents need to know FAQ.  
[Cyber Bullying](#): how to stop it FAQ.  
[Stop Bullying](#) in school FAQ.  
[School Violence](#) prevention FAQ.  
[Child - Outdoor Safety](#): staying out of harm's way.  
[Free-Range Kids](#) vs Myth Busters  
[Child Kidnapping](#): dangers lurking at the Mall.  
[Child - Kidnapping Escape](#) from a monster. **(YOU'RE NOW ON THIS PAGE)**  
[Stranger Danger](#) vs Stranger Safety FAQ  
[911 Calls](#): how to do it right.  
[Recap & Resources](#): a summary of this section.  
Go to  
[Stranger Danger vs Stranger Safety FAQ](#)  
[Stop Bullying FAQ](#)  
[Child Safety - Overview](#)  
[www.Crime-Safety-Security.com HOME PAGE](#)

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Please pay it forward. Here\'s how...', szColor:',whatIsThisUrl:'}));
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<br/>Michael Edward Loftus Sr â€” Crime-Safety-Security.com

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**GITHUB LINK:** <https://github.com/IBM-EPBL/IBM-Project-10550-1659186233>

**PROJECT DEMO LINK:**

[https://drive.google.com/file/d/1dYnCh8bDaa430LAcMxW4XbuFOjAmZ2jm/view?usp=share\\_link](https://drive.google.com/file/d/1dYnCh8bDaa430LAcMxW4XbuFOjAmZ2jm/view?usp=share_link)