

A STUDY OF SEN.SE MOTHER - SENSOR AND TRACKER

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Abstract– Mother is a product of the company SEN.SE. The device Mother is capable of tracking and reporting the essential events that are to be know and controlled by us in a daily basis. The mother and the sensors go hand in hand .The sensors are programmed to do the particular task and they are allotted to various devices .The sensors will send regular notification about the objects to which it is fixed and programmed to work. The activities are seen and analysed in the sense board. It does many work from sleep analysis to fitness tracking .The word mother signifies us that only a mother can look after us in the best way ,that's why the device gets the name.

I. INTRODUCTION

Mother is a small device with a family of sensors which is smart enough to take care of whatever you desire. Mother does not require much attention, it can work indepentently with a little control of the user. Mother is attached to a router cable and a power supply. The sensors are connected to the devices that are to be tracked by the mother. The sensors will also check the temperature and can also send message to the user regarding the actions that are taking place in the objects to which the sensors are attached.

Mother can track everything with an app which includes from sleep analysis to fitness tracking and also home monitoring. The messages are viewed in the sense board which can be accessed from computers, mobiles, tablet.



II. DESCRIPTION

Mother has a light-up face and looks like a white Russian nesting doll. Mother has to be route wired and it mostly stays away from the router.

There are 4 cookies which are the sensors that comes with the mother. At its back side it contains two ports .one port is to be connected to the Ethernet cable. other port is to connect to power supply

The battery of mother is capable to last for about 12 months. The batteries of the cookies can go long for 12-15 months. Each hub has a unique identifier



III. COOKIES

The mother can have upto 24 cookies. The cookies are of four colours.

- o Orange - "United Sundae,"
- o Yellow - "Adored Crunch,"
- o Green- "Natural Connection," and
- o Blue- "Ideal Mountain."



To start up with the device, login to sen.se website and then register your cookies and mother. After registering, the cookies work as chameleonic sensors that adapt to the tasks you assign them. They measure your steps while you are walking with them. They measure your sleep pattern while you are sleeping with them .Each movement of an object will be notified if the object is connect to the sensor. The website collects and analysis all the data in the website (sen.se).the cookies has the capacity to hold the datas for 10 days. Each mother have a separate birth name which can be changed later if required.

IV. SPECIFICATION

Mother's technical details:

- SIZE
6.3in x 3.5, 160mm x 90mm
- WEIGHT
1lb
450gr
- CONNECTION
Wired Ethernet connection to your router
- POWER

- 100 240 Volts input
- USE
 - Indoor use only
- MOBILE DEVICES
 - iPhone,iPad(iOS7.1+) Android(4.0+)
 - Windows Phone (8.0+)
- COMPUTERS
 - Any computer with a recent version of a major browser
- OPEN API
 - Powerful API to build innovative Apps and services

V. WORKING PROCEDURE

1. The Ethernet is connected to the mother throw Ethernet cable. Power supply is given via power adapter
2. To create a private account go to sensemother.com/start and the register your device
3. Next it is needed to download the pockect mother for iOS, Android or Windows Phone on Your Smartphone or Tablet.
4. The cookie runs on a battery. a battery can be fixed into the cookie manually.
5. To add the cookie to the mother just shake it..
6. The same procedure is repeated for all the other sensors.
7. Now the device is physically connected. Further implementations are completed through the app.
8.
 - a) Open the website and select <<Add apps>> tab that is present in the website.
 - b) Then Install the app that you need from the options present.
 - c) The app is customized with the related personal data and preferences.
 - d) Select the cookies that you wish to use for that app
 - e) The cookies are placed in the required location.and the installation process is done.

VI. LIVING WITH MOTHER AND HER COOKIES.

You will be receiving notifications from the devices when something that matters have occurred. You will be notified via phone calls, messages or through email. If required mother can also give sound notification. you can view the timeline of the events which have occurred through your web, tablet or smart phones. Through the Sense board, the complete life story of yours can be seen via tablets or web.



VII. INFINITE USES IN ONE DEVICE

when the kids are safe to home you will be notified. The temperature of the room is checked accordingly and it is adjusted . Wake up every morning rested and feel fresh. Cookies can be reprogrammed endlessly. The programs remains the same until it is reprogrammed. some of the activities of the cookies are

- **WALK** : When you carry a cookie in your pocket the steps you take, the distance you cover and the calories you burn everything are updated in the sense board.
- **DOOR**: Whenever you are away from home, the cookie will notify you when some unusual events occur.
- **SLEEP** :The cookie that you place under your bed can can track how much you sleep, that is it records the time when you go to bed and the time when you wake up.
- **TEETH** : Attach the sensor to the toothbrush to track the brushing activities of your family members
- **MEDICATION** : Placing a cookie in the pill bottle will notify you to take in the tablets at the correct time.or else you will be reminded through messages.
- **COFFEE** : by attaching a cookie to the coffee machine you will be alerted on the number of intake of the cup of coffees you take everyday.it also alerts you when the quantity of pods goes low
- **CARTOON SECRETS**: Affix a cookie to the toy or the everyday objects and when it moves you will be notified with an your smartphones or tablets gets a cartoon style sound.
- **PRIVACY**: Your precious or intimate objects are protected by the cookies,when someone touches it,you will be notified,
- **PRESENSE** : A cookie given to each of the family members will notify you when they are back home safe.
- **TEMPERATURE** : Place a cookie in the room and the tempature of that room will be checked regularly .a warning will be given if the temperature varies from the normal one.
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VII. MAIN GOAL

- When someone breaks home an alret is generated.
- Supports to be fit by making you more active.
- Alerts us for the intake of medicine.
- Supports for a good sleep and wake up fresh .
- And lots of more app.
- And nest learning thermostat to sense board,and let your Habits control the temperature.

VIII. HOW MOTHER WORKS?

Cookies can only communicate with the hub up to roughly 65 feet. So, any time you take a one outside of that range, you won't receive the data until you return. I also found the fitness tracker setup slightly annoying. While you can switch between Metric and Imperial units, there was no place to enter height in feet *and* inches -- it only had a section for feet, so I had to enter that I was 5.6 feet tall instead of 5 feet and 7 inches. Close enough.

PROS

- Cute hardware
- Cookies are unobtrusive
- Easy app switching

CONS

- Mother must connect to a wired network.
- Limited app selection • Related.
- Pricey for its current feature set

X. CONCLUSION

Most home sensor networks are focused on monitoring , controlling the home environment—tracking temperature,controlling appliances,and the like mother does some of that ,too,but the focus is much more on people than things.Thanks to the adaptable sensors known as mother cookies.Mother can help your monitor,understand and optimize your family’s daily routines.

REFERENCE

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